Speed ratings

The speed at which ball bearing units can operate depends on the means by which they are located on the shaft and also the type of seal. For bearings of series YAR, YEL, YET, YAT and YSP the speeds are limited by the fit on the shaft; the looser the fit the lower the speed. Recommended maximum values are given in **Table 3**.

Bearings with multi-function seals should not be operated at speeds in excess of 60% of those quoted in the table, particularly when shafts having an h6 tolerance are used.

Table 3

Speed ratings for insert bearings

Basic bearing size	Speed ratings for bearings of series: YAR, YEL, YET, YAT, YSP with shaft tolerance				
	h6	h7	h8	h9	h11
	rpm				
203	9500	6000	4300	1500	950
204	8500	5300	3800	1300	850
205	7000	4500	3200	1000	700
206	6300	4000	2800	900	630
207	5300	3400	2200	750	530
208	4800	3000	1900	670	480
209	4300	2600	1700	600	430
210	4000	2400	1600	560	400
211	3600	2000	1400	500	360
212	3400	1900	1300	480	340
213	3000	1700	1100	430	300
214	2800	1600	1000	400	280
215	2600	1500	930	380	260
216	2400	1400	900	360	240

Internal clearance

SKF inch series YAR, YEL, YET, YAT and YSP wide inner ring bearings are produced as standard with internal clearance according to **Table 4**.

Table 4

Radial internal clearance of wide inner ring bearings

Basic bearing size	Radial internal clearance of bearings of series: YAR, YEL, YET, YAT, YSP	
	min	max
	0.0001 in	
203	4	10
204-206	5	11
207-208	5	13
209-210	6	14
211-213	7	17
214-216	8	20

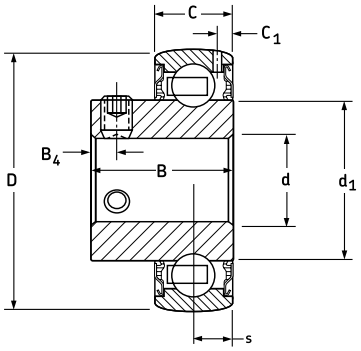
Set screw locking – Insert bearing

YAT / standard duty

Spherical O.D.
Narrow inner ring
Relubricatable
Seal

Replaces: GYA-RRB, V-, INS-SL

How to order	**YAT 208-108**
Option	Specify
Nonrelubricatable	YAT 208-108-W
Lube groove	YAT 208-108-G
Lube groove (locking side)	YAT 208-108-GR

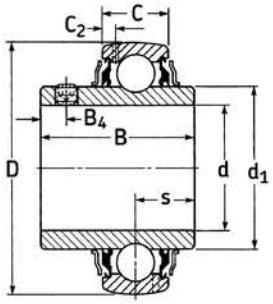


Bore dia d		**Insert bearing designation**	D	d_1	B	M	C	**Dynamic capacity C**	**Static load C_0**	**Min fillet radius**	**Set screw size**	**Mass**
in	mm		mm	in	in	in	mm	lbf	lbf	in		lb
1/2		**YAT 203-008**	40	0.953	0.870	0.472	12	2 150	1 070	0.038	#10-32 UNF	0.2
5/8		**YAT 203-010**									–	0.2
	17	**YAT 203**									M6x0.75	0.2
3/4		**YAT 204-012**	47	1.110	1.004	0.551	14	2 850	1 470	0.044	1/4-28 UNF	0.3
	20	**YAT 204**									M6x0.75	0.3
7/8		**YAT 205-014**	52	1.328	1.071	0.591	15	3 150	1 750	0.052	1/4-28 UNF	0.4
15/16		**YAT 205-015**									–	0.4
1		**YAT 205-100**									–	0.4
	25	**YAT 205**									M6x0.75	0.4
1 1/8		**YAT 206-102**	62	1.563	1.189	0.709	18	4 380	2 520	0.062	1/4-28 UNF	0.5
1 3/16		**YAT 206-103**									–	0.6
1 1/4		**YAT 206-104**									–	0.6
	30	**YAT 206**									M6x0.75	0.6
1 1/4		**YAT 207-104**	72	1.815	1.299	0.748	19	5 730	3 440	0.071	5/16-24 UNF	0.8
1 3/8		**YAT 207-106**									–	0.8
1 7/16		**YAT 207-107**									–	0.9
	35	**YAT 207**									M6x0.75	0.8
1 1/2		**YAT 208-108**	80	2.039	1.417	0.827	21	6 900	4 270	0.080	5/16-24 UNF	1.2
	40	**YAT 208**									M6x0.75	1.1
1 11/16		**YAT 209-111**	85	2.236	1.457	0.866	22	7 460	4 850	0.088	5/16-24 UNF	1.3
1 3/4		**YAT 209-112**									–	1.3
	45	**YAT 209**									M6x0.75	1.2
1 15/16		**YAT 210-115**	90	2.461	1.528	0.866	22	7 890	5 210	0.097	3/8-24 UNF	1.4
	50	**YAT 210**									M8x1	1.4
2		**YAT 211-200**	100	2.719	1.772	0.984	25	9 800	6 520	0.107	3/8-24 UNF	2.2
2 3/16		**YAT 211-203**									–	1.9
2 1/4		**YAT 212-204**	110	2.978	1.909	1.024	26	11 840	8 090	0.117	3/8-24 UNF	2.8
2 7/16		**YAT 212-207**									–	2.4
2 15/16		**YAT 215-215**	130	3.624	2.106	1.142	29	14 900	11 010	0.143	3/8-24 UNF	3.9
3		**YAT 216-300**	140	3.835	2.185	1.181	30	16 360	11 910	0.151	3/8-24 UNF	4.9

Consult SKF USA Inc. prior to design change or order placement.

YAR-2F / standard duty

Spherical O.D.
Wide inner ring
Relubricatable
Seal & flingers



How to order	YAR 208-107-2F
Option	Specify
Nonrelubricatable	YAR 208-107-2FW
Lube groove	YAR 208-107-2FG
Lube groove (locking side)	YAR 208-107-2FGR

Bore dia d		Insert bearing designation	D	d_1	B	M	C	Dynamic capacity C	Static load C_0	Min fillet radius	Set screw size	Mass
in	mm		mm	in	in	in	mm	lbf	lbf	in		lb
1/2		YAR 203-010-2F									#10-32 UNF	0.2
5/8		YAR 203-008-2F	40	0.953	1.079	0.472	12	2 150	1 070	0.038	–	0.3
	17	YAR 203-2F									M6x0.75	0.2
3/4		YAR 204-012-2F	47	1.110	1.220	0.551	14	2 850	1 470	0.044	1/4-28 UNF	0.4
	20	YAR 204-2F									M6x0.75	0.3
7/8		YAR 205-014-2F									1/4-28 UNF	0.0
1		YAR 205-100-2F	52	1.328	1.343	0.591	15	3 150	1 750	0.052	–	0.4
15/16		YAR 205-015-2F									–	0.4
	25	YAR 205-2F									M6x0.75	0.4
1 1/4		YAR 206-104-2F									1/4-28 UNF	0.6
1 3/16		YAR 206-103-2F									–	0.7
1 1/8		YAR 206-102-2F	62	1.563	1.500	0.709	18	4 380	2 520	0.062	–	0.7
1 1/16		YAR 206-101-2F									–	0.8
	30	YAR 206-2F									M6x0.75	0.7
1 7/16		YAR 207-107-2F									5/16-24 UNF	0.9
1 3/8		YAR 207-106-2F									–	1.0
1 5/16		YAR 207-105-2F	72	1.815	1.689	0.748	19	5 730	3 440	0.071	–	1.1
1 1/4		YAR 207-104-2F									–	1.1
	35	YAR 207-2F									M6x0.75	1.0
1 7/16		YAR 208-107-2F									5/16-24 UNF	1.5
1 1/2		YAR 208-108-2F	80	2.039	1.937	0.827	21	6 900	4 270	0.080	–	1.4
1 9/16		YAR 208-109-2F									–	1.3
	40	YAR 208-2F									M8x1	1.3
1 1/2		YAR 209-108-2F									5/16-24 UNF	1.9
1 5/8		YAR 209-110-2F									–	1.7
1 11/16		YAR 209-111-2F		2.236	1.937	0.866	22	7 460	4 850	0.088	–	1.6
1 3/4		YAR 209-112-2F									–	1.5
	45	YAR 209-2F									M8x1	1.5
	90	YAR 218-2F	160	4.429	3.504	1.417	36	21 480	16 180	0.174	M12x1.5	8.8
	100	YAR 220-2F	180	4.913	3.874	1.575	40	27 870	20 900	0.193	M12x1.5	12.3

Consult SKF USA Inc. prior to design change or order placement.

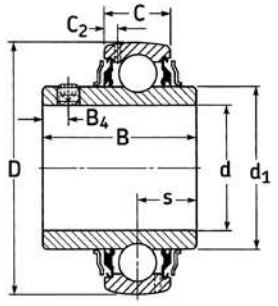
Set screw locking – Insert bearing

YAR / standard duty

Spherical OD
Wide inner ring
Relubricatable
Multi-function seal and rubberized flingers

Replaces: GYA-RBB, UG200NL

How to order	**YAR 208-107-2RF**
Option	Specify
Nonrelubricatable	YAR 208-107-2RFW
Lube groove	YAR 208-107-2RFG
Lube groove (locking side)	YAR 208-107-2RFGR



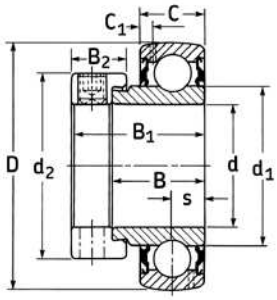
Bore dia d		**Insert bearing designation**	D	d_1	B	M	C	**Dynamic capacity C**	**Static load C_0**	**Min fillet radius**	**Set screw size**	**Mass**
in	mm		mm	in	in	in	mm	lbf	lbf	in		lb
3/4	20	**YAR 204-012-2RF** **YAR 204-2RF**	47	1.110	1.220	0.551	14	2 850	1 470	0.044	1/4-28 UNF M6x0.75	0.4 0.3
1	25	**YAR 205-100-2RF** **YAR 205-2RF**	52	1.328	1.343	0.591	15	3 150	1 750	0.052	1/4-28 UNF M6x0.75	0.4 0.4
	30	**YAR 206-2RF**	62	1.563	1.500	0.709	18	4 380	2 520	0.062	M6x0.75	0.7
1 1/4	35	**YAR 207-104-2RF** **YAR 207-2RF**	72	1.815	1.689	0.748	19	5 730	3 440	0.071	5/16-24 UNF M6x0.75	1.1 1.0
1 1/2	40	**YAR 208-108-2RF** **YAR 208-2RF**	80	2.039	1.937	0.827	21	6 900	4 270	0.080	5/16-24 UNF M8x1	1.4 1.3
1 3/4	45	**YAR 209-112-2RF** **YAR 209-2RF**	85	2.236	1.937	0.866	22	7 460	4 850	0.088	5/16-24 UNF M8x1	1.5 1.5
1 15/16	50	**YAR 210-115-2RF** **YAR 210-2RF**	90	2.461	2.031	0.866	22	7 890	5 210	0.097	3/8-24 UNF M10x1	1.7 1.7
2	55	**YAR 211-200-2RF** **YAR 211-2RF**	100	2.719	2.189	0.984	25	9 800	6 520	0.107	3/8-24 UNF M10x1	2.6 2.3
	60	**YAR 212-2RF**	110	2.978	2.563	1.024	26	11 840	8 090	0.117	M10x1	3.1
2 1/2	65	**YAR 213-208-2RF** **YAR 213-2RF**	120	3.248	2.689	1.063	27	12 850	8 990	0.128	3/8-24 UNF M10x1	4.2 4.0

Consult SKF USA Inc. prior to design change or order placement.

YET / standard duty

Spherical O.D.
Narrow inner ring
Relubricatable
Seal

Replaces: GRA-RRB, WG200UL



How to order	**YET 205-100**
Option	Specify
No collar	YET 205-100U
Nonrelubricatable	YET 205-100W
Lube groove	YET 205-100G
Lube groove (collar side)	YET 205-100GR

Bore dia d		**Insert bearing designation**	D	B	B_1	C [1]	d_1	d_2	M	**Dynamic capacity C**	**Static load C_0**	**Min fillet radius**	**Set screw size**	**Mass**
in	mm		mm	in		mm	in		in	lbf	lbf	in		lb
1/2		**YET 203-008**	40	0.752	1.126	12	0.953	1.071	0.030	2 150	1 070	0.012	1/4-28 UNF	0.3
	17	**YET 203**											M6x0.75	0.2
3/4		**YET 204-012**	47	0.827	1.201	14	1.110	1.276	0.033	2 850	1 470	0.024	1/4-28 UNF	0.4
	20	**YET 204**											M6x0.75	0.4
1		**YET 205-100**	52	0.846	1.220	15	1.328	1.472	0.033	3 150	1 750	0.024	1/4-28 UNF	0.4
15/16		**YET 205-015**											–	0.5
7/8		**YET 205-014**											–	0.5
	25	**YET 205**											M6x0.75	0.4
1 1/4		**YET 206-104**	62	0.937	1.406	18	1.563	1.736	0.037	4 380	2 520	0.024	5/16-24 UNF	0.7
1 3/16		**YET 206-103**											–	0.7
1 1/8		**YET 206-102**											–	0.7
1 1/16		**YET 206-101**											–	0.8
	30	**YET 206**											M8x1	0.7
1 7/16		**YET 207-107**	72	1.000	1.531	19	1.815	2.016	0.039	5 730	3 440	0.039	3/8-24 UNF	1.0
1 3/8		**YET 207-106**											–	1.0
1 5/16		**YET 207-105**											–	1.1
1 1/4		**YET 207-104**											–	1.1
	35	**YET 207**											M10x1	1.0
1 1/2		**YET 208-108**	80	1.169	1.701	21	2.039	2.224	0.046	6 900	4 270	0.039	3/8-24 UNF	1.4
	40	**YET 208**											M10x1	1.3
1 3/4		**YET 209-112**	85	1.189	1.720	22	2.236	2.441	0.047	7 460	4 850	0.039	3/8-24 UNF	1.5
1 11/16		**YET 209-111**											–	1.6
1 5/8		**YET 209-110**											–	1.7
	45	**YET 209**											M10x1	1.5
1 15/16		**YET 210-115**	90	1.189	1.720	22	2.461	2.646	0.047	7 890	5 210	0.039	3/8-24 UNF	1.7
	50	**YET 210**											M10x1	1.6
2 3/16		**YET 211-203**	100	1.283	1.906	25	2.719	2.933	0.051	9 800	6 520	0.039	7/16-20 UNF	2.2
2		**YET 211-200**											–	2.5
	55	**YET 211**											M10x1	2.3
2 7/16		**YET 212-207**	110	1.445	2.071	26	2.978	3.228	0.057	11 840	8 090	0.059	7/16-20 UNF	2.8
	60	**YET 212**											M10x1	3.0

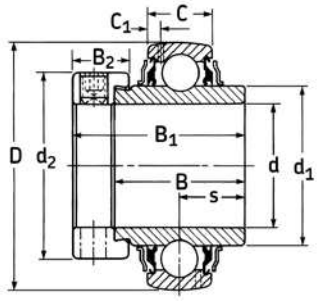
[1] If bearings are mounted on shafts with interference fits, then C values may be multiplied by 1.3.

Eccentric locking – Insert bearing

YEL-2F / standard duty

Spherical O.D.
Wide inner ring
Relubricatable
Seal & flingers

Replaces: G-KRRB, YG200NL



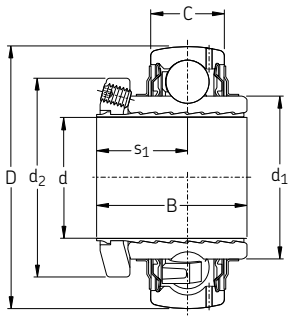
How to order	**YEL 205-100-2F**
Option	Specify
No collar	YEL 205-100-2FU
Nonrelubricatable	YEL 205-100-2FW
Lube groove	YEL 205-100-2FG
Lube groove (collar side)	YEL 205-100-2FGR
Multi-function seal	YEL 205-100-2RF

Bore dia d		**Insert bearing designation**	D	B	B_1	C	d_1	d_2	M	**Dynamic capacity C**	**Static load C_0**	**Min fillet radius**	**Set screw size**	**Mass**
in	mm		mm	in		mm	in		in	lbf	lbf	in		lb
3/4		**YEL 204-012-2F**	47	1.346	1.720	14	1.110	1.276	0.053	2 850	1 470	0.024	1/4-28 UNF	0.5
	20	**YEL 204-2F**											M6x0.75	0.4
1		**YEL 205-100-2F**	52	1.374	1.748	15	1.328	1.472	0.054	3 150	1 750	0.024	1/4-28 UNF	0.5
15/16		**YEL 205-015-2F**											–	0.6
7/8		**YEL 205-014-2F**											–	0.6
	25	**YEL 205-2F**											M6x0.75	0.5
1 1/4		**YEL 206-104-2F**	62	1.437	1.906	18	1.563	1.736	0.057	4 380	2 520	0.024	5/16-24 UNF	0.8
1 3/16		**YEL 206-103-2F**											5/16-24 UNF	0.8
1 1/8		**YEL 206-102-2F**											–	0.9
	30	**YEL 206-2F**											M8x1	0.8
1 7/16		**YEL 207-107-2F**	72	1.480	2.012	19	1.815	2.012	0.058	5 730	3 440	0.039	3/8-24 UNF	1.1
1 3/8		**YEL 207-106-2F**											–	1.2
1 1/4		**YEL 207-104-2F**											–	1.3
	35	**YEL 207-2F**											M10x1	1.2
1 1/2		**YEL 208-108-2F**	80	1.685	2.217	21	2.039	2.224	0.066	6 900	4 270	0.039	3/8-24 UNF	1.7
	40	**YEL 208-2F**											M10x1	1.5
1 3/4		**YEL 209-112-2F**	85	1.685	2.217	22	2.236	2.441	0.066	7 460	4 850	0.039	3/8-24 UNF	1.8
1 11/16		**YEL 209-111-2F**											–	1.9
1 5/8		**YEL 209-110-2F**											–	2.0
	45	**YEL 209-2F**											M10x1	1.7
1 15/16		**YEL 210-115-2F**	90	1.937	2.469	22	2.461	2.646	0.076	7 890	5 210	0.039	3/8-24 UNF	2.1
	50	**YEL 210-2F**											M10x1	2.0
2 3/16		**YEL 211-203-2F**	100	2.189	2.811	25	2.719	2.933	0.086	9 800	6 520	0.039	7/16-20 UNF	2.8
2		**YEL 211-200-2F**											–	3.3
	55	**YEL 211-2F**											M10x1	2.9
2 7/16		**YEL 212-207-2F**	110	2.437	3.063	26	2.978	3.228	0.096	11 840	8 090	0.059	7/16-20 UNF	3.5
	60	**YEL 212-2F**											M10x1	3.7

Consult SKF USA Inc. prior to design change or order placement.

YSP SB-2F / standard duty

Spherical O.D.
ConCentra locking
Relubricatable
Seals & flingers



How to order	YSP 205-100 SB-2F
Option	Specify
Air handling	YSP 205-100 SB-2F-AH

Bore dia d		Insert bearing designation	B	C	D	d_1	d_2	S_1	Dynamic capacity C	Static load C_0	Set screw size	Mass
in	mm		in	mm	mm	in		in	lbf	lbf		lb
1	25	**YSP 205-100 SB-2F** **YSP 205 SB-2F**	1.307	15	52	1.328	1.642	0.835	3 150	1 750	M5	0.4 0.4
1 3/16	30	**YSP 206-103 SB-2F** **YSP 206 SB-2F**	1.465	18	62	1.563	1.890	0.913	4 380	2 520	M5	0.7 0.7
1 7/16 1 3/8 1 1/4	35	**YSP 207-107 SB-2F** **YSP 207-106 SB-2F** **YSP 207-104 SB-2F** **YSP 207 SB-2F**	1.563	19	72	1.815	2.244	0.965	5 730	3 440	M6	0.9 – 1.1 1.0
1 1/2	40	**YSP 208 SB-2F** **YSP 208-108 SB-2F**	1.697	21	80	2.039	2.441	1.031	6 900	4 270	M6	1.3 1.4
1 11/16	45	**YSP 209-111 SB-2F** **YSP 209 SB-2F**	1.740	22	85	2.236	2.638	1.051	7 460	4 850	M6	1.5 1.5
1 15/16	50	**YSP 210-115 SB-2F** **YSP 210 SB-2F**	1.819	22	90	2.461	2.835	1.091	7 890	5 210	M6	1.7 1.6
2 3/16 2	55	**YSP 211-203 SB-2F** **YSP 211-200 SB-2F** **YSP 211 SB-2F**	1.937	25	100	2.719	3.055	1.150	9 800	6 520	M6	2.1 2.4 2.2
2 1/4 2 7/16	60	**YSP 212-204 SB-2F** **YSP 212-207 SB-2F** **YSP 212 SB-2F**	2.035	26	110	2.978	3.268 3.449 3.268	1.201	11 840	8 090	M6	3.0 2.6 2.8
2 11/16		**YSP 213-211 SB-2F**	2.075	27	120	3.248	3.520	1.220	12 850	8 990	M6	3.1

Consult SKF USA Inc. prior to design change or order placement.

Notes

Notes

Notes



Roller bearing units nomenclature guide*

(Inch series)

P2B 207 – SRB – SRE – W64

1 2 3 4 5 6 7

1. Housing style

		Predecessor
P2B	Pillow block, two-bolt	SYR
P2BA	Pillow block, two-bolt, SAF dimensions	SYAF
P2BE	Pillow block, two-bolt, type E dimensions	SYE
P4B	Pillow block, four-bolt	–
P4BA	Pillow block, four-bolt, SAF dimensions	(F)SYAF
P4BE	Pillow block, four-bolt, type E dimensions	FSYE
F3BBD	Flange, three-bolt, bracket	–
F3BR	Flange, three-bolt, round	FYR
F4B	Flange, four-bolt, square	–
F4BBD	Flange, four-bolt, bracket	–
F4BE	Flange, four-bolt, type E dimensions	FYE
F4BED	Flange, four-bolt, type E dimensions, ductile	FYED
F4BR	Flange, four-bolt	FYR
F4BRP	Flange, four-bolt, round, piloted	FYRP
F6BRP	Flange, six-bolt, round, piloted	FYRP
WSTU	Take-up, wideslot	–

2. Shaft size

Inch

First digit: number of inches

Second and third digits: number of sixteenths of an inch

Example: 207 indicates 2 7/16 (unit)

3. Bearing type

SRB Spherical roller bearing

4. Locking mechanism (SRE)

S	Set screw
C	SKF ConCentra™

5. Seal options (SRE)

R	Radial lip
L	Labyrinth
G	Garter spring

6. Bearing location (SRE)

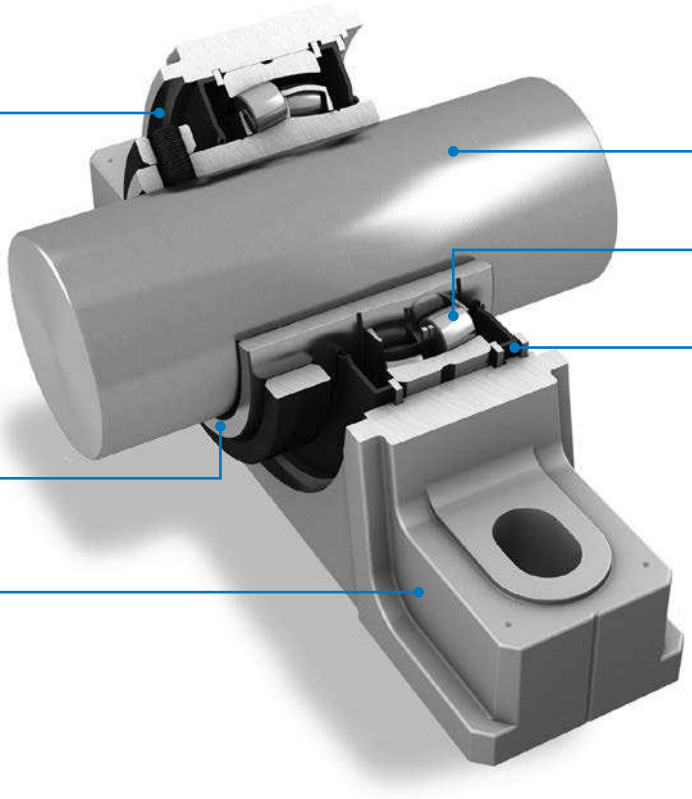
H	Held (locating)
E	Expansion (non-locating)

7. Additional options

Y	End cover included
W64	Solid Oil
H7**	H7 housing bore tolerance
V____	V-number special execution

* SKF changed the nomenclature and following designations. The new and previous designations are shown.
** G7 is the standard housing bore tolerance.

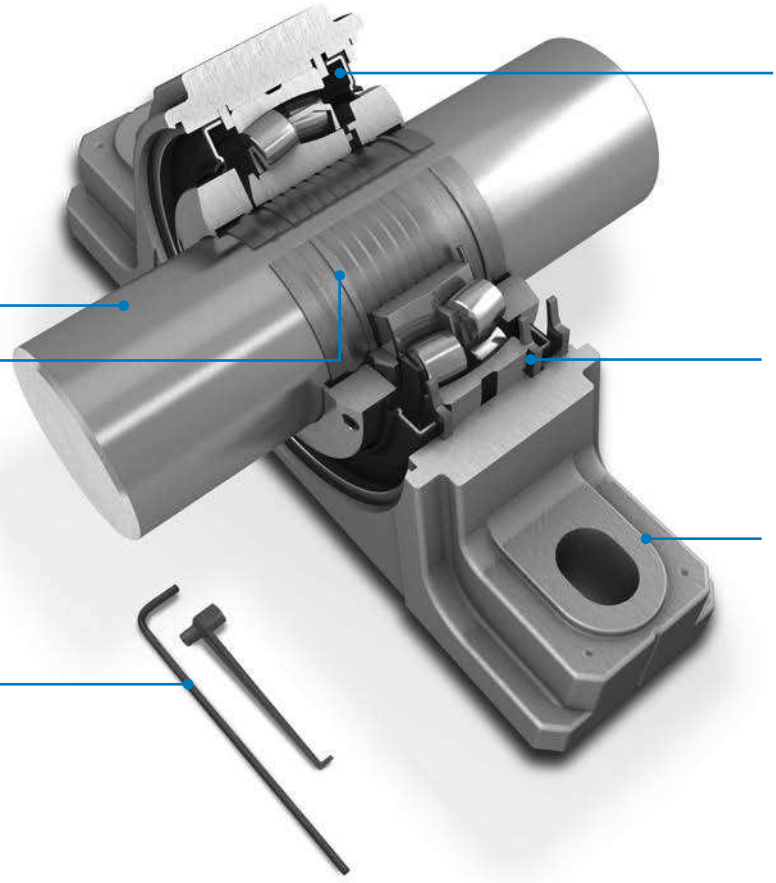
Introduction



Set screw mounted roller bearing unit

The units are based on the SKF 22200 series spherical roller bearing. Fully assembled and pre-greased, the units need no internal bearing adjustments at assembly. This saves time and eliminates the risk of bearing contamination during assembly.

Roller bearing units offer many of the advantages of the split housing series but with the convenience of just slipping it on the shaft. Misalignment, non-locating or locating assemblies, two-or four-bolt bases, cast iron and a variety of seal options make the roller bearing unit a preferred alternative to the split housing.



ConCentra™ spherical roller bearing unit

Patented multi-taper sleeve uniformly clamps the inner ring around the shaft circumference and sets the bearing internal clearance. The ConCentra locking method achieves true concentric mounting with the shaft, and also minimizes risk of damage or fretting corrosion on the shaft surface. The ConCentra design increases the axial holding strength of the bearing inner ring to the shaft, and also facilitates easy dismounting.

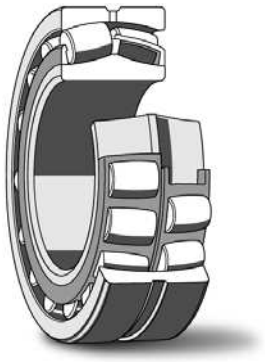
Some typical applications are:
- Apron conveyors
- Bucket elevators
- Belt conveyors
- Chain conveyors
- Fans & blowers
- Wastewater treatment equipment
- Commercial laundry equipment

Set screw mounted roller bearing unit

Roller bearing units are supplied completely assembled with bearings, seals, and grease. They are ready for installation right out of the box and require no internal adjustment.

Bearings

The bearings used in SKF roller bearing units are based on the high capacity SKF 22200 series spherical roller bearing. They can handle heavy radial and axial loads, misalignment and high operating temperatures. Clearances in the bearing are preset; no adjustment is required during mounting.

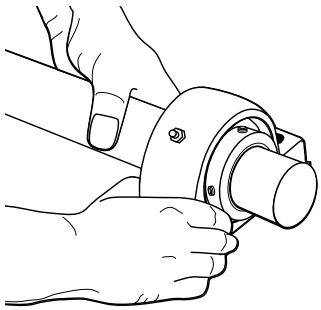


Grease

All roller bearing units are factory lubricated with SKF LGEP2 grease.

Mounting

Set screw mounted roller bearing units slide easily onto the shaft and are locked in place with a double set screw locking collar. The locking collar keeps pressure on the set screws helping to maintain the tight fit with the shaft. For added holding power, the largest sizes are designed with two locking collars, indicated in the dimension tables. Mounting is quick and easy.



Housings

There are a variety of housing styles in the SKF roller bearing unit product line, including pillow blocks and flange units. Pillow blocks are made in two configurations: the P2BE is dimensionally interchangeable with competitor "E" designs and the P2B is dimensionally interchangeable with units such as the Dodge S–2000, Linkbelt P–B22400, and Rexnord ZA 2000 series.

Table 1

Set screw torque and permissible axial load

Shaft sizes	Set screw	Torque	Permissible axial load
in	(No.) size	in-lbs	lbs
1 7/16 to 2 3/16	(2) 3/8" - 24	250	515
2 7/16 to 3 1/2	(2) 1/2" - 20	620	900
3 11/16 to 4	(2) 5/8" - 18	1325	1200
4 7/16 to 4 15/16	(4) 5/8" - 18	1325	2400

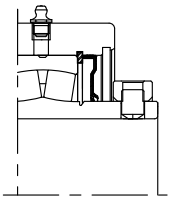
Table 2

Recommended shaft tolerances

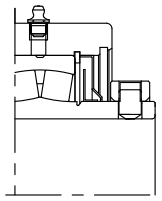
Shaft diameter	Tolerance
Up to 1 15/16"	Nominal to -0.0005"
2" to 4 15/16"	Nominal to -0.0010"

Note: When the load is heavy, C/P < 8.3, a press fit must be used. Consult SKF Applications Engineering.

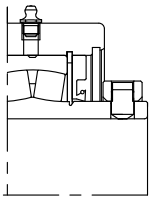
Seals



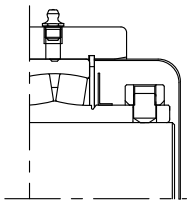
TriGard seal (R) *Standard offer*



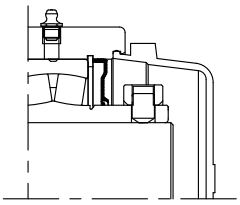
Labyrinth seal (L)



Garter spring seal (G)



End cover (Y) *3 7/16" shaft and up*



End cover (Y) *1 3/16" to 3" shaft*

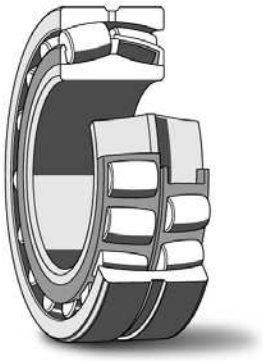
SKF ConCentra™ roller bearing unit

SKF ConCentra™ roller bearing units are supplied completely assembled with bearings, seals, and grease. They are ready for installation right out of the box and require no internal adjustment.

ConCentra units can be used in the same applications as set screw mounted roller bearing units. The difference between the two types is that the ConCentra unit mounts with a near 360° interference fit (see "Mounting", to the right, and Product descriptions on following page).

Bearings

The bearings used in ConCentra roller bearing units are based on the high capacity SKF 22200 series spherical roller bearing. They can handle heavy radial and axial loads, misalignment and high operating temperatures. Clearances in the bearing are preset; no adjustment is required during mounting.



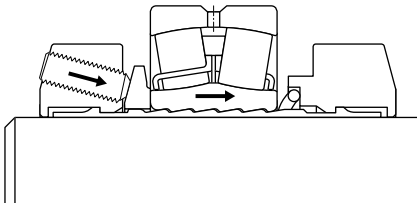
Grease

All roller bearing units are factory lubricated with SKF LGEP2 grease.

LGEP2 Grease characteristics	
Base oil	Mineral
Thickener	Lithium
Application temperature	-4° to 230° F (-20° to 110° C)
NLGI	2
Viscosity at 100° F (40° C)	900 SUS (190 cSt)
212° F (100° C)	82 SUS (16 cSt)

Mounting

The ConCentra roller bearing unit uses a patented multi–tapered sleeve arrangement, making it easy to mount the bearing to the shaft. This method provides nearly 360° of interference fit, which does not offset the center line of the shaft and helps reduce fretting.



Housings

There are a variety of housing styles in the ConCentra roller bearing unit product line including pillow blocks and flange units. Pillow blocks are made in three configurations: the P2BE is dimensionally interchangeable with competitor "E" designs, the P2B is dimensionally interchangeable with units such as the Dodge S–2000, Linkbelt P–B22400 and SKF collar-mounted unit roller bearings.

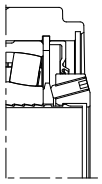
Tolerances

In normal cases shafts machined to tolerance h9 can be used. The cylindricity as defined in ISO 1101:1996 should be according to IT5/2. For less demanding applications h10 and IT7/2 may be satisfactory.

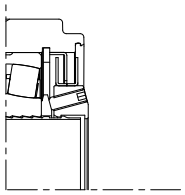
Table 3

Recommended shaft tolerances	
Shaft diameter	Tolerance
Up to $1^{1}/_{2}$"	+0.000" to -0.003"
$1^{11}/_{16}$" to $2^{1}/_{2}$"	+0.000" to -0.004"
$2^{11}/_{16}$" to 4"	+0.000" to -0.005"

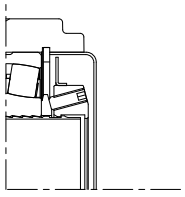
Seals



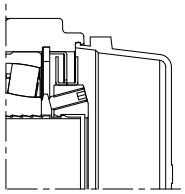
TriGard seal (R) *Standard offer*



Labyrinth seal (L)



*End cover (Y) *3 7/16" shaft and up*



End cover (Y) *1 3/16" to 3" shaft*

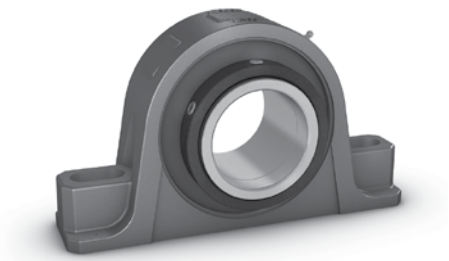
*Consult SKF for Availability

Product descriptions

These units are simple and economic bearing arrangements combining the high load capacity and self-aligning features of the SKF spherical roller bearing with the convenience of set screw or ConCentra mounting and a rugged cast-iron housing. Installation time is reduced and there is no risk of bearing contamination during assembly. All units incorporate triple protection TriGard seals as standard, but can also be supplied with optional performance seals.

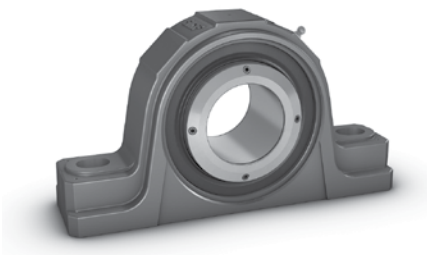
Set screw units use a locking collar design to firmly secure the bearing inner ring to the shaft. The two set screws extend through the inner ring of the bearing and lock into the shaft. The elasticity of the locking collars maintains pressure on the set screws helping to maintain a secure fit to the shaft even in severe power transmission applications. Mounting is quick and easy. Slide the unit on the shaft, bolt the housing securely to the mounting surface and tighten the two set screws.

ConCentra units combine the advantages of adapter mounting found in split pillow blocks with the convenience of set screw mounting. The result is a positive, near 360° interference fit with the shaft. This is achieved with a unique patented multi-tapered sleeve arrangement developed by SKF. The shaft is held concentric to the bore of the bearing resulting in reduced fretting corrosion, good balance and low vibration. Dismounting is just as easy. Loosen the mounting set screws and tighten the dismounting set screws until the multi-tapered sleeve releases its grip, usually with a "POP". No need for cutting torches or other mechanical devices. Downtime and shafting cost are saved.



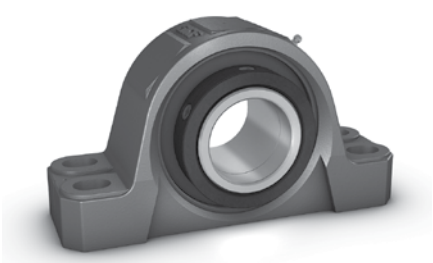
P2B

Cast-iron, two-bolt base pillow blocks. They are available in shaft sizes ranging from 1 7/16" to 4." See pages 316 and 317.



P2BE

Cast-iron, two-bolt base pillow blocks with Type E dimensions are available in shaft sizes ranging from 1 7/16" to 3 1/2." See pages 312 and 313.



P4BE

Cast iron, four-bolt base pillow block with Type E dimensions are available for shafts ranging from 2 7/16" to 4 15/16" with set screw mounting. ConCentra is available up to a 4." See pages 314 and 315.



F3BR

Cast-iron flange unit supports rotating shafts through walls, bulkheads or other flat surfaces. The three bolts are available in both set screw and ConCentra mounting in two sizes, 1 7/16" and 1 1/2." See pages 306 and 327. These units rely on the mounting bolts for location and load carrying. See page 322 and 323.



F4BR

Cast-iron flange unit supports rotating shafts through walls, bulkheads, or other flat surfaces. They are available for shaft sizes ranging from 1 7/16" to 4." These units rely on the mounting bolts for location and load carrying. See page 322 and 323.



F4BBD

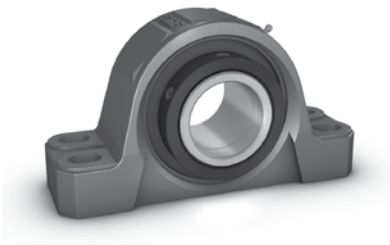
Cast ductile-iron, four-bolt flange unit supports rotating shafts. Available for shaft sizes ranging from 2 7/16" to 2 1/2." Available in set screw mounting as well as Concentra mounting. See pages 328 and 329.

New Designations	
Previous Designation	**New Designation**
SYR	P2B
SYAF	P2BA
SYE	P2BE
–	P4B
(F)SYAF	P4BA
FSYE	P4BE
FYR	F3BR
–	F3BBD
–	F4B
FYE	F4BE
FYR	F4BR
–	F4BBD
FYED	F4BED
FYRP	F4BRP
FYRP	F6BRP
–	WSTU

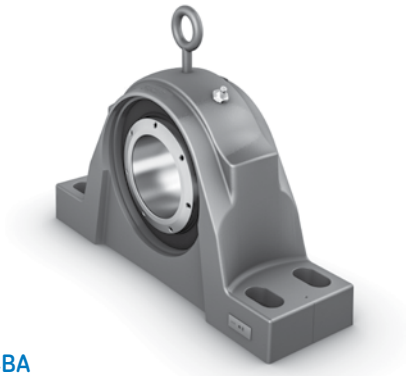
Product descriptions



P2BA
Cast-iron, two-bolt base pillow blocks with SAF dimensions. This makes for easy replacement when the features of a spherical roller unit are needed. See pages 318 and 319.



P4B
Cast-iron, four-bolt base pillow block unit. Available for saft sizes ranging from 1 15/16" to 4 15/16"as well as a couple metric shaft diameters within that range. Available in set screw mounting as well as ConCentra mounting. See pages 332 and 333.



P4BA
Cast-iron, four-bolt base pillow block unit with SAF dimensions. See pages 318 and 319.



F3BBD
Cast ductile-iron, three-bolt flange unit supports rotating shafts. Available for shaft sizes ranging from 1 7/16" to 2". Available in set screw mounting as well as ConCentra mounting. See pages 328 and 329.



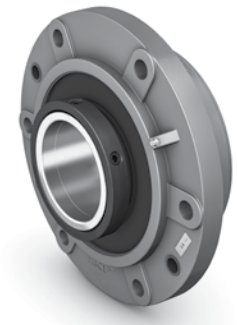
F4B
Cast-iron, four-bolt square flange unit supports rotating shafts. Available for shaft sizes 1 7/16" to 4" as well as several metric shaft diameters within that range. Available in set screw mounting as well as ConCentra mounting. See pages 330 and 331.



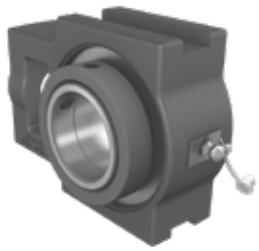
F4BE
Cast-iron, four-bolt flange with Type E dimensions roller bearing units are available in shaft sizes ranging from 1 7/16" to 4 7/16." ConCentra available ranging from 1 7/16" to 4 1/2." See page 320 and 321.



F4BRP
Cast-iron piloted flange units, available for shaft sizes ranging from 1 1/4" to 4," have a machined extension on one side to fit into a precisely machined bulkhead opening. This provides additional location and support to the unit. See page 324 and 325.



F6BRP
Cast-iron piloted flange units are available in shaft sizes ranging from 4 7/16" to 4 15/16" with set screw mounting and 4 7/16" to 5" with ConCentra mounting. They have a machined extension on one side to fit into a precisely machined bulkhead opening. This provides additional location and support to the unit.
See pages 324 and 325.



WSTU
Cast iron take-up unit. Available for shaft sizes ranging from 1 7/16" to 3 7/16" as well as the 100mm metric shaft diameter. Available in set screw mounting as well as ConCentra mounting. See pages 334 and 335.

Seal design criteria/Set screw-mounted roller bearing units

TriGard seal (R) *Standard offer*

- Standard on all unit roller bearings
- Features a double lip molded contact seal, which rides on a ground surface of the inner ring
- Steel outboard trash guard protects the seal and excludes larger contaminants
- Provides positive contact even under misaligned conditions
- Permits ±1½° misalignment
- Low frictional torque
- Limited to 200° F maximum operating temperature

Labyrinth seal (L)

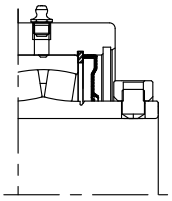
- Two-piece all metal labyrinth seal provides for high operating speeds
- Inboard flinger pressed on the inner ring of the bearing helps retain grease and exclude contaminants
- Outboard stationary plate is pressed into the housing and has close running tolerance with the inner ring of the bearing to exclude contaminants
- Permits ±1½° misalignment
- No frictional torque from seal
- No temperature limitation of seal

Garter spring seal (G)

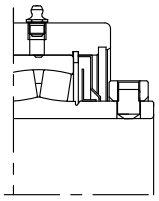
- Features one-piece molded nitrile rubber seal pressed into the housing bore
- Provides greater grease retention and sealing protection because stainless steel garter spring holds seal lip firmly to the ground inner ring
- Provides positive contact even under misaligned conditions
- Permits ±1½° misalignment
- Provides good protection in moist environment
- Limited to 200° F maximum operating temperature

End covers (Y)

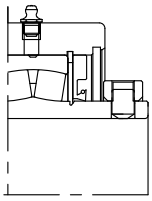
- Steel end covers are simply pushed into position in the housing bore
- Provides additional sealing and protection against exposed shaft ends



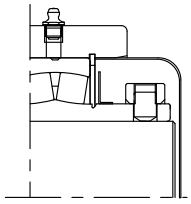
TriGard seal (R) *Standard offer*



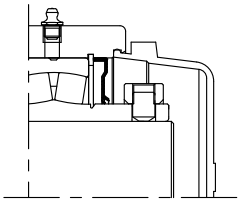
Labyrinth seal (L)



Garter spring seal (G)



End cover (Y) *3 7/16" shaft and up*



End cover (Y) *1 3/16" to 3" shaft*

Table 4

Seal speed limits

Shaft size	TriGard	Labyrinth	Garter Spring
in	rpm		
1 7/16	2300	5300	1700
1 1/2	2300	5300	1700
1 11/16	4500	4700	1600
1 3/4	4500	4700	1600
1 15/16	4100	4250	1450
2	4100	4250	1450
2 3/16	3700	3800	1300
2 7/16	3100	3250	1100
2 1/2	3100	3250	1100
2 11/16	2800	2800	950
2 3/4	2800	2800	950
2 15/16	2800	2800	950
3	2800	2800	950
3 7/16	2300	2200	800
3 1/2	2300	2200	800
3 11/16	2100	2000	700
3 15/16	2100	2000	700
4	2100	2000	700
4 7/16	1900	N/A	N/A
4 1/2	1900	N/A	N/A
4 15/16	1650	N/A	N/A

TriGard seal (R) *Standard offer*

- Standard on all unit roller bearings
- Features a double lip molded contact seal, which rides on a ground surface
- Steel outboard trash guard protects the seal and excludes larger contaminants
- Provides positive contact even under misaligned conditions
- Permits ±1½° misalignment
- Low frictional torque
- Limited to 200° F maximum operating temperature

Labyrinth seal (L)

- Three-piece all metal labyrinth seal inboard flinger pressed on the inner ring of the bearing helps retain grease
- Outboard plate pressed on the inner ring flings contaminants away from the seal opening
- A stationary trash guard, positioned between the two flingers, is pressed into the housing and helps create a difficult path labyrinth to prevent the ingress of contaminants
- Permits ±1½° misalignment
- No frictional torque from seal
- No temperature limitation of seal

End covers (Y)

- Steel end covers are simply pushed into position in the housing bore. A variety of end cover designs are available depending upon the specific housing. Contact SKF Application Engineering for specific details concerning ECM, ECY and B-9794 end cover designs
- Provides additional sealing and protection against exposed shaft ends

Table 5

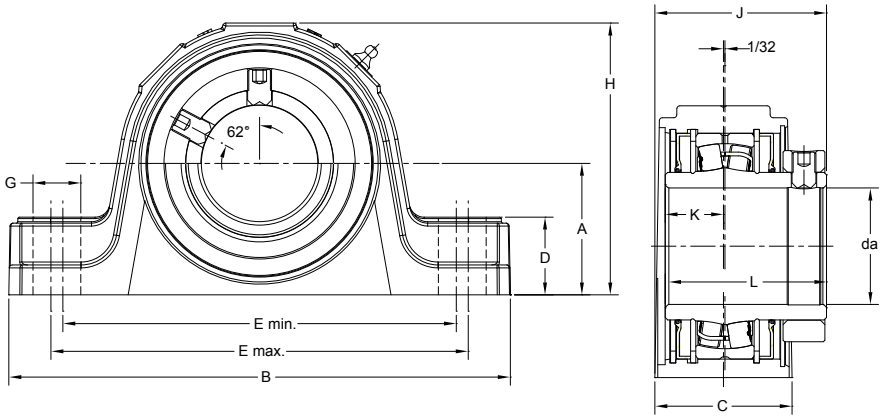
Seal speed limits

Shaft size	TriGard	Labyrinth
in	rpm	
1 7/16	4000	5600
1 1/2	4000	5600
1 11/16	3700	5300
1 3/4	3700	5300
1 15/16	3500	5000
2	3500	5000
2 3/16	3250	4500
2 7/16	2900	3800
2 1/2	2900	3800
2 11/16	2600	3400
2 3/4	2600	3400
2 15/16	2600	3400
3	2600	3400
3 7/16	2200	2600
3 1/2	2200	2600
3 15/16	2000	2200
4	2000	2200

Pillow block / set screw

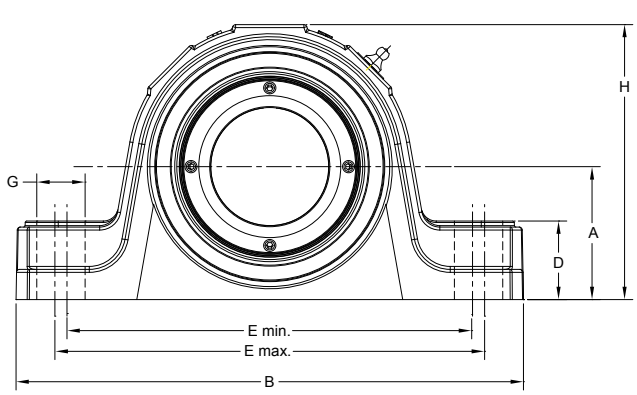
P2BE
Cast-iron housing
2-bolt base
Type E dimensions
Self-aligning
Locating or non-locating
TriGard seal

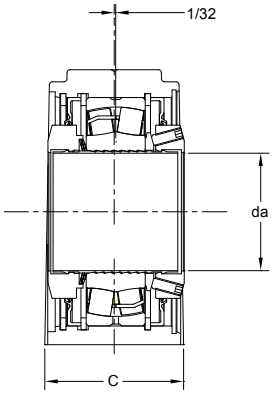
How to order	P2BE 207-SRB-SRH
Option	Specify
TriGard seal	P2BE 207-SRB-S**R**E
Garter spring seal	P2BE 207-SRB-S**G**H
Labyrinth seal	P2BE 207-SRB-S**L**E
Locating unit	P2BE 207-SRB-SR**H**
Non-locating unit	P2BE 207-SRB-SR**E**



Shaft dia. d_a	Previous Designation	New Designation	Bearing basic load rating dynamic C	TriGard speed limit	Mass	A	B	C	D	E Max	E Min	G	H	J	K	L	Bolts (No. req'd)
in	—	—	lbs	rpm	lbs	in											in
1 7/16	SYE 1 7/16	P2BE 107-SRB-SRE	16 600	5100	8.0	1 7/8	7 3/8	2 1/8	1 1/8	5 7/8	5 5/8	3/4	3 7/8	2 27/32	1	2 3/4	(2)-1/2
1 1/2	SYE 1 1/2	P2BE 108-SRB-SRE	16 600	5100	8.0												
1 11/16	SYE 1 11/16	P2BE 111-SRB-SRE	17 300	4 500	9.3	2 1/8	7 7/8	2 3/8	1 1/4	6 3/8	6 1/8	3/4	4 1/4	2 31/32	1	2 3/4	(2)-1/2
1 3/4	SYE 1 3/4	P2BE 112-SRB-SRE	17 300	4500	9.3												
1 15/16	SYE 1 15/16	P2BE 115-SRB-SRE	19 000	4100	10.5	2 1/4	8 7/8	2 1/2	1 5/16	7 1/8	6 7/8	7/8	4 1/2	3 5/32	1	2 7/8	(2)-5/8
2	SYE 2	P2BE 200-SRB-SRE	19 000	4100	10.5												
2 3/16	SYE 2 3/16	P2BE 203-SRB-SRE	22 400	3700	13.5	2 1/2	9 5/8	2 5/8	1 1/2	8	7 5/8	7/8	5	3 11/32	1 1/8	3 1/8	(2)-5/8
2 7/16	SYE 2 7/16	P2BE 207-SRB-SRE	33 300	3100	18.5	2 3/4	10 1/2	2 7/8	1 5/8	8 3/4	8 1/4	1	5 11/16	3 19/32	1 1/4	3 3/8	(2)-5/8
2 1/2	SYE 2 1/2	P2BE 208-SRB-SRE			18.0												
2 11/16	SYE 2 11/16	P2BE 211-SRB-SRE	35 500	2800	25.5	3 1/8	12	3	1 7/8	9 3/4	9 1/4	1 1/8	6 5/16	3 29/32	1 1/4	3 5/8	(2)-3/4
2 3/4	SYE 2 3/4	P2BE 212-SRB-SRE			25.0												
2 15/16	SYE 2 15/16	P2BE 215-SRB-SRE			24.0												
3	SYE 3	P2BE 300-SRB-SRE			23.5												
3 7/16	SYE 3 7/16	P2BE 307-SRB-SRE	56 900	2300	35.5	3 3/4	14	3 5/8	2 1/4	11 7/16	10 9/16	1 5/16	7 1/2	4 7/16	1 7/16	4 1/32	(2)-7/8
3 1/2	SYE 3 1/2	P2BE 308-SRB-SRE			35.5												

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.





Pillow block / ConCentra™

P2BE
Cast-iron housing
2-bolt base
Type E dimensions
Self-aligning
Locating or non-locating
TriGard seal

How to order	**P2BE 207-SRB-CRH**
Option	Specify
TriGard seal	P2BE 207-SRB-C**R**E
Garter spring seal	P2BE 207-SRB-C**G**H
Labyrinth seal	P2BE 207-SRB-C**L**E
Locating unit	P2BE 207-SRB-CR**H**
Non-locating unit	P2BE 207-SRB-CR**E**

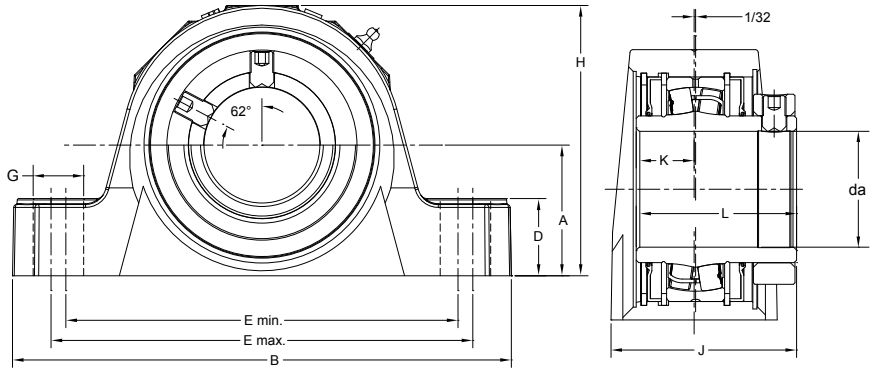
Shaft dia. d_a	**Previous Designation**	**New Designation**	**Bearing basic load rating** dynamic C	**TriGard speed limit**	**Mass**	A	B	C	D	E Max	E Min	G	H	**Bolts** (No. req'd)
in	—	—	lbs	rpm	lbs	in								in
1 7/16	SYE 1 7/16 N	P2BE 107-SRB-CRE	22 900	4000	8.0	1 7/8	7 3/8	2 1/8	1 1/8	5 7/8	5 5/8	3/4	3 7/8	(2)-1/2
1 1/2	SYE 1 1/2 N	P2BE 108-SRB-CRE	22 900	4000	8.0	2 1/8	7 7/8	2 3/8	1 1/4	6 3/8	6 1/8	3/4	4 1/4	(2)-1/2
1 11/16	SYE 1 11/16 N	P2BE 111-SRB-CRE	20 200	3700	9.3									
1 3/4	SYE 1 3/4 N	P2BE 112-SRB-CRE	20 200	3700	9.3									
1 15/16	SYE 1 15/16 N	P2BE 115-SRB-CRE	21 700	3500	10.5	2 1/4	8 7/8	2 1/2	1 5/16	7 1/8	6 7/8	7/8	4 1/2	(2)-5/8
2	SYE 2 N	P2BE 200-SRB-CRE	21 700	3500	10.5									
2 3/16	SYE 2 3/16 N	P2BE 203-SRB-CRE	30 100	3250	13.5	2 1/2	9 5/8	2 5/8	1 1/2	8	7 5/8	7/8	5	(2)-5/8
2 7/16	SYE 2 7/16 N	P2BE 207-SRB-CRE	43 400	2900	18.5	2 3/4	10 1/2	2 7/8	1 5/8	8 3/4	8 1/4	1	5 11/16	(2)-5/8
2 1/2	SYE 2 1/2 N	P2BE 208-SRB-CRE			18.5									
2 11/16	SYE 2 11/16 N	P2BE 211-SRB-CRE			25.5									
2 3/4	SYE 2 3/4 N	P2BE 212-SRB-CRE	47 700	2600	25.0	3 1/8	12	3	1 7/8	9 3/4	9 1/4	11/8	6 5/16	(2)-3/4
2 15/16	SYE 2 15/16 N	P2BE 215-SRB-CRE			24.0									
3	SYE 3 N	P2BE 300-SRB-CRE			23.5									
3 7/16	SYE 3 7/16 N	P2BE 307-SRB-CRE	65 200	2200	35.5	3 3/4	14	3 5/8	2 1/4	11 7/16	10 9/16	15/16	7 1/2	(2)-7/8
3 1/2	SYE 3 1/2 N	P2BE 308-SRB-CRE			35.5									

For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

Pillow block / set screw

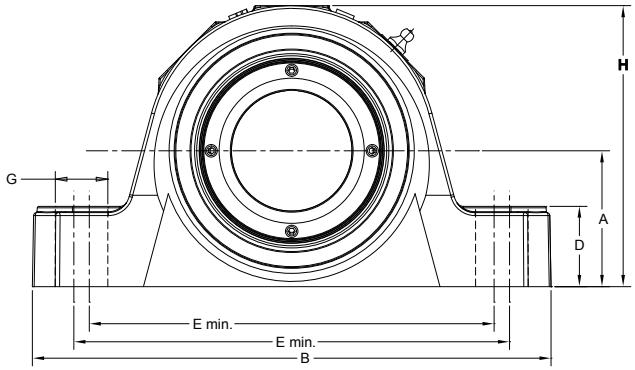
P4BE
Cast-iron housing
4-bolt base
Type E dimensions
Self-aligning
Locating or non-locating
TriGard seal

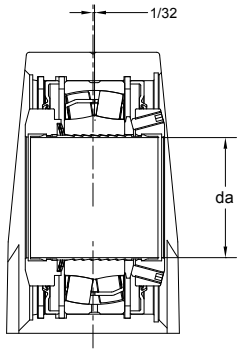
How to order	P4BE 207-SRB-SRH
Option	Specify
TriGard seal	P4BE 207-SRB-S**R**E
Garter spring seal	P4BE 207-SRB-S**G**H
Labyrinth seal	P4BE 207-SRB-S**L**E
Locating unit	P4BE 207-SRB-SR**H**
Non-locating unit	P4BE 207-SRB-SR**E**



Shaft dia. d_a	Previous Designation	New Designation	Bearing basic load rating dynamic C	TriGard speed limit	Mass	A	B	C	D	E Max	E Min	F	G	H	J	K	L	Bolts (No. req'd)
in	—	—	lbs	rpm	lbs	in												in
2 7/16	FSYE 2 7/16	P4BE 207-SRB-SRE	33 300	3100	19.0	2 3/4	10 1/2	3 1/2	1 5/8	8 3/4	8 1/4	1 7/8	1	5 11/16	3 19/32	1 1/4	3 3/8	(4)-5/8
2 1/2	FSYE 2 1/2	P4BE 208-SRB-SRE			18.5													
2 11/16	FSYE 2 11/16	P4BE 211-SRB-SRE	35 500	2800	25.5	3 1/8	12	4	1 7/8	10 1/8	9 1/8	2 1/8	1 1/8	6 5/16	3 29/32	1 1/4	3 5/8	(4)-5/8
2 3/4	FSYE 2 3/4	P4BE 212-SRB-SRE			25.5													
2 15/16	FSYE 2 15/16	P4BE 215-SRB-SRE			24.0													
3	FSYE 3	P4BE 300-SRB-SRE			24.0													
3 7/16	FSYE 3 7/16	P4BE 307-SRB-SRE	56 900	2300	36.5	3 3/4	14	4 1/2	2 1/4	11 3/4	10 1/2	2 3/8	15/16	7 1/2	4 7/16	17/16	4 1/32	(4)-3/4
3 1/2	FSYE 3 1/2	P4BE 308-SRB-SRE			36.5													
					50.5													
3 11/16	FSYE 3 11/16	P4BE 311-SRB-SRE	69 900	2100	49.5	4 1/4	15 1/4	4 1/2	2 7/16	13 1/8	12	2 1/4	13/8	8 9/16	4 7/8	15/8	4 19/32	(4)-3/4
3 15/16	FSYE 3 15/16	P4BE 315-SRB-SRE			49.5													
4	FSYE 4	P4BE 400-SRB-SRE			49.5													
4 7/16	FSYE 4 7/16	P4BE 407-SRB-SRE	91 700	1900	71.0	4 3/4	16 5/8	4 5/8	2 3/4	14 1/2	13 1/8	2 1/2	1 1/4	9 3/8	4 31/32	–	–	(4)-3/4
4 1/2	FSYE 4 1/2	P4BE 408-SRB-SRE			71.0													
4 15/16	FSYE 4 15/16	P4BE 415-SRB-SRE	123 000	1650	100.0	5 1/2	18 1/2	5 1/8	3	16 1/4	15 1/8	2 3/4	13/8	10 7/8	5 17/32	–	–	(4)-7/8

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.
P4BE 207-SRB-SRE thru P4BE 400-SRB-SRE supplied with single locking collar only.
P4BE 407-SRB-SRE thru P4BE 415-SRB-SRE supplied with double locking collar only.





Pillow block / ConCentra™

P4BE
Cast-iron housing
4-bolt base
Type E dimensions
Self-aligning
Locating or non-locating
TriGard seal

How to order	P4BE 207-SRB-CRH
Option	Specify
TriGard seal	P4BE 207-SRB-C**R**E
Garter spring seal	P4BE 207-SRB-C**G**H
Labyrinth seal	P4BE 207-SRB-C**L**E
Locating unit	P4BE 207-SRB-CR**H**
Non-locating unit	P4BE 207-SRB-CR**E**

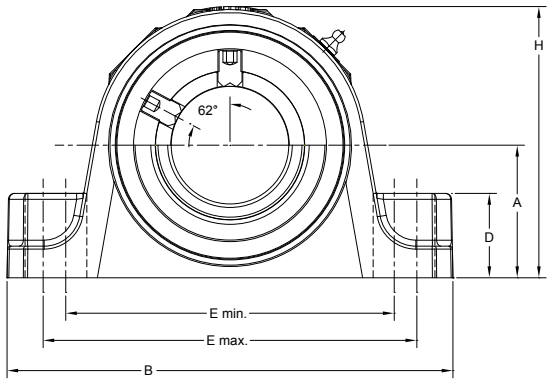
Shaft dia. d_a	**Previous Designation**	**New Designation**	**Bearing basic load rating** dynamic C	**TriGard speed limit**	**Mass**	A	B	C	D	E Max	E Min	F	G	H	**Bolts** (No. req'd)
in	—		lbs	rpm	lbs	in									in
2 7/16	FSYE 2 7/16 N	P4BE 207-SRB-CRE	43 400	2900	19.0	2 3/4	10 1/2	3 1/2	1 5/8	8 3/4	8 1/4	1 7/8	1	5 11/16	(4)-5/8
2 1/2	FSYE 2 1/2 N	P4BE 208-SRB-CRE			19.0										
2 11/16	FSYE 2 11/16 N	P4BE 211-SRB-CRE	47 700	2600	25.5	3 1/8	12	4	1 7/8	10 1/8	9 1/8	2 1/8	1 1/8	6 5/16	(4)-5/8
2 3/4	FSYE 2 3/4 N	P4BE 212-SRB-CRE			25.5										
2 15/16	FSYE 2 15/16 N	P4BE 215-SRB-CRE			24.0										
3	FSYE 3 N	P4BE 300-SRB-CRE			24.0										
3 7/16	FSYE 3 7/16 N	P4BE 307-SRB-CRE	65 200	2200	36.5	3 3/4	14	4 1/2	2 1/4	11 3/4	10 1/2	2 3/8	1 5/16	7 1/2	(4)-3/4
3 1/2	FSYE 3 1/2 N	P4BE 308-SRB-CRE			36.5										
3 11/16	FSYE 3 11/16 N	P4BE 311-SRB-CRE	81 000	2000	50.5	4 1/4	15 1/4	4 1/2	2 7/16	13 1/8	12	2 1/4	1 3/8	8 9/16	(4)-3/4
3 15/16	FSYE 3 15/16 N	P4BE 315-SRB-CRE			49.5										
4	FSYE 4 N	P4BE 400-SRB-CRE			49.5										

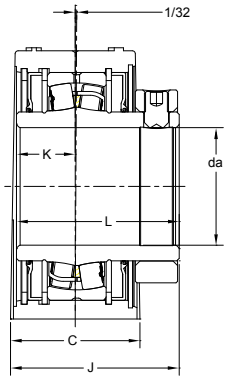
For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

Pillow block / set screw

P2B
Cast-iron housing
2-bolt base
Self-aligning
Locating or non-locating
TriGard seal

How to order	P2B 207-SRB-SRH
Option	Specify
TriGard seal	P2B 207-SRB-S**R**E
Garter spring seal	P2B 207-SRB-S**G**H
Labyrinth seal	P2B 207-SRB-S**L**E
Locating unit	P2B 207-SRB-SR**H**
Non-locating unit	P2B 207-SRB-SR**E**

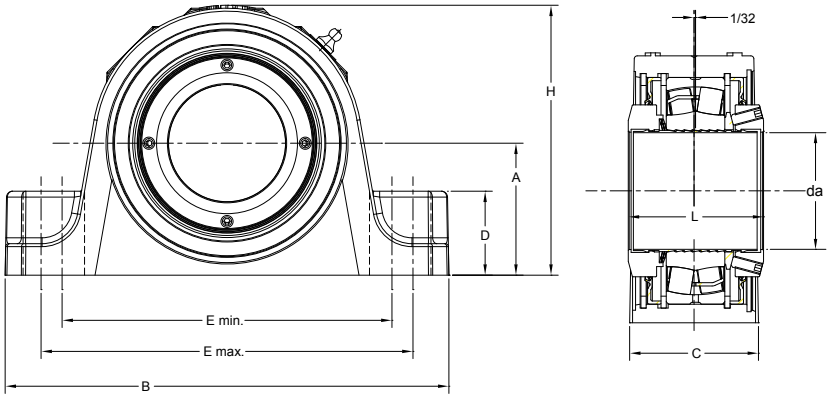




Shaft dia. d_a	Previous Designation	New Designation	Bearing basic load rating Dynamic C	TriGard speed limit	Mass	A	B	C	D	E Max	E Min	H	J	K	L	Bolts (No. req'd)
in			lbs	rpm	lbs	in										in
1 7/16	SYR 1 7/16	P2B 107-SRB-SRE	16 600	5100	7.0	1 7/8	6 7/8	2 1/8	1 3/16	5 5/16	4 11/16	3 7/8	2 13/16	1	2 3/4	(2)-1/2
1 1/2	SYR 1 1/2	P2B 108-SRB-SRE			7.0											
1 11/16	SYR 1 11/16	P2B 111-SRB-SRE	17 300	4500	8.1	2 1/8	7 3/8	2 3/8	1 5/16	5 13/16	5 3/16	4 1/4	2 15/16	1	2 7/8	(2)-1/2
1 3/4	SYR 1 3/4	P2B 112-SRB-SRE			8.1											
1 15/16	SYR 1 15/16	P2B 115-SRB-SRE	19 000	4100	9.2	2 1/4	8 3/8	2 3/8	1 3/8	6 9/16	5 15/16	4 9/16	2 15/16	1	2 7/8	(2)-5/8
2	SYR 2	P2B 200-SRB-SRE			9.1											
2 3/16	SYR 2 3/16	P2B 203-SRB-SRE	22 400	3700	12.0	2 1/2	8 7/8	2 3/8	1 5/8	7 1/16	6 7/16	5	3 3/16	1 1/8	3 1/8	(2)-5/8
2 7/16	SYR 2 7/16	P2B 207-SRB-SRE	33 300	3100	16.0	2 3/4	9 1/4	2 11/16	1 3/4	7 7/16	6 13/16	5 11/16	3 7/16	1 1/4	3 3/8	(2)-5/8
2 1/2	SYR 2 1/2	P2B 208-SRB-SRE			16.0											
2 11/16	SYR 2 11/16	P2B 211-SRB-SRE	35 500	2800	22.0	3 1/4	10 7/16	2 11/16	2 1/4	8 7/16	7 13/16	6 7/16	3 11/16	1 1/4	3 5/8	(2)-3/4
2 3/4	SYR 2 3/4	P2B 212-SRB-SRE			22.0											
2 15/16	SYR 2 15/16	P2B 215-SRB-SRE			21.0											
3	SYR 3	P2B 300-SRB-SRE			21.0											
3 7/16	SYR 3 7/16	P2B 307-SRB-SRE	56 900	2300	31.5	3 3/4	13	3 3/16	2 1/4	10 3/4	9 1/4	7 1/2	4 3/32	1 7/16	4 1/32	(2)-7/8
3 1/2	SYR 3 1/2	P2B 308-SRB-SRE			31.5											
3 11/16	SYR 3 11/16	P2B 311-SRB-SRE	69 900	2100	44.5	4 1/8	14 1/4	3 17/32	2 1/2	11 3/4	10	8 7/16	4 21/32	1 5/8	4 19/32	(2)-1
3 15/16	SYR 3 15/16	P2B 315-SRB-SRE			43.5											
4	SYR 4	P2B 400-SRB-SRE			43.5											

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.

P2B
Cast-iron housing
2-bolt base
Self-aligning
Locating or non-locating
TriGard seal



How to order	P4BE 207-SRB-CRH
Option	Specify
TriGard seal	P2B 207-SRB-C**R**E
Garter spring seal	P2B 207-SRB-C**G**H
Labyrinth seal	P2B 207-SRB-C**L**E
Locating unit	P2B 207-SRB-CR**H**
Non-locating unit	P2B 207-SRB-CR**E**

Shaft dia. d_a	**Previous Designation**	**New Designation**	**Bearing basic load rating** Dynamic C	**TriGard speed limit**	**Mass**	A	B	C	D	E Max	E Min	H	L	**Bolts** (No. req'd)
in			lbs	rpm	lbs	in								in
1 7/16	SYR 1 7/16 N	P2B 107-SRB-CRE	22 900	4000	7.0	1 7/8	6 7/8	2 1/16	1 3/16	5 5/16	4 11/16	3 7/8	2 11/32	(2)-1/2
1 1/2	SYR 1 1/2 N	P2B 108-SRB-CRE			7.0									
1 11/16	SYR 1 11/16 N	P2B 111-SRB-CRE	20 200	3700	7.0	2 1/8	7 3/8	2 1/8	1 5/16	5 13/16	5 3/16	4 1/4	2 11/32	(2)-1/2
1 3/4	SYR 1 3/4 N	P2B 112-SRB-CRE			8.1									
1 15/16	SYR 1 15/16 N	P2B 115-SRB-CRE	21 700	3500	8.1	2 1/4	8 3/8	2 5/16	1 3/8	6 9/16	5 15/16	4 9/16	2 11/32	(2)-5/8
2	SYR 2 N	P2B 200-SRB-CRE			9.2									
2 3/16	SYR 2 3/16 N	P2B 203-SRB-CRE	30 100	3250	12.0	2 1/2	8 7/8	2 3/8	1 5/8	7 1/16	6 7/16	5	2 11/32	(2)-5/8
2 7/16	SYR 2 7/16 N	P2B 207-SRB-CRE	43 400	2900	12.0	2 3/4	9 1/4	2 11/16	1 3/4	7 7/16	6 13/16	5 11/16	2 37/64	(2)-5/8
2 1/2	SYR 2 1/2 N	P2B 208-SRB-CRE			16.0									
2 11/16	SYR 2 11/16 N	P2B 211-SRB-CRE	47 700	2600	22.0	3 1/4	10 7/16	2 11/16	2 1/4	8 7/16	7 13/16	6 7/16	2 37/64	(2)-3/4
2 3/4	SYR 2 3/4 N	P2B 212-SRB-CRE			22.0									
2 15/16	SYR 2 15/16 N	P2B 215-SRB-CRE			21.0									
3	SYR 3 N	P2B 300-SRB-CRE			21.0									
3 7/16	SYR 3 7/16 N	P2B 307-SRB-CRE	65 200	2200	31.5	3 3/4	13	3 3/16	2 1/4	10 3/4	9 1/4	7 1/2	3 5/32	(2)-7/8
3 1/2	SYR 3 1/2 N	P2B 308-SRB-CRE			31.5									
3 11/16	SYR 3 11/16 N	P2B 311-SRB-CRE	81 000	2000	44.5	4 1/8	14 1/4	3 17/32	2 1/2	1 13/4	10	8 7/16	3 3/8	(2)-1
3 15/16	SYR 3 15/16 N	P2B 315-SRB-CRE			43.5									
4	SYR 4 N	P2B 400-SRB-CRE			43.5									

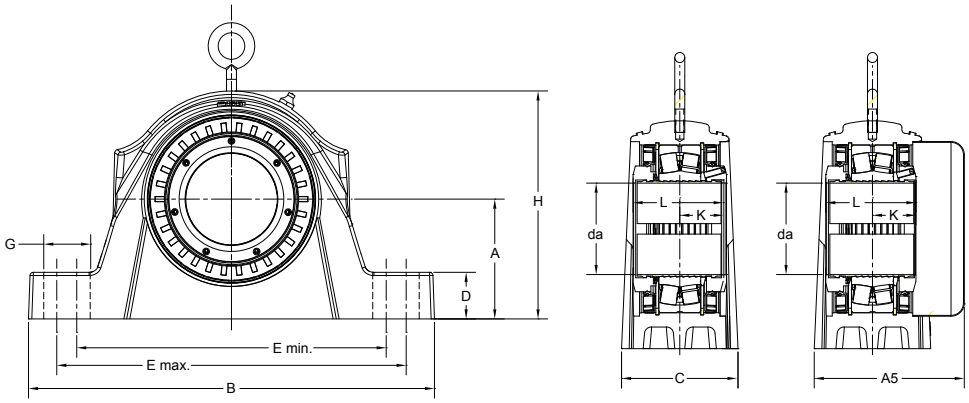
For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

Pillow block

P2BA/P4BA - ConCentra only

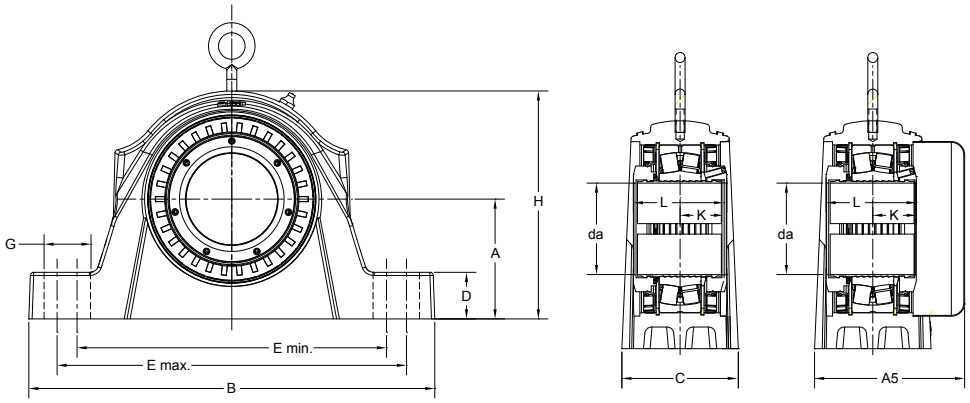
Cast-iron housing
2- and 4- bolt base
SAF dimensions
Self-aligning
Locating or non-locating
TriGard seal

How to order	P2BA 303 SRB-CRH
Option	Specify
TriGard seal	P2BA 303 SRB-CRE
Garter spring seal	P2BA 303 SRB-CGH
Labyrinth seal:	P2BA 303 SRB-CLE
Heavy duty seal	P2BA 303 SRB-CTE
Locating unit	P2BA 303 SRB-CRH
Non locating unit	P2BA 303 SRB-CRE



Shaft dia d_a	Designation Pillow block unit non-locating	New Designation	Insert Bearing designation	Bearing basic load rating dynamic C	Seals speed limits TriGard
in	–			lbf	rpm
3 3/16	SYAF 3 3/16 N	P2BA 303-SRB-CRE			
3 7/16	SYAF 3 7/16 N	P2BA 307-SRB-CRE	22218	74.4	2100
3 1/2	SYAF 3 1/2 N	P2BA 308-SRB-CRE			
3 3/16	FSYAF 3 3/16 N	P4BA 303-SRB-CRE			
3 7/16	FSYAF 3 7/16 N	P4BA 307-SRB-CRE	22218	74.4	2100
3 1/2	FSYAF 3 1/2 N	P4BA 308-SRB-CRE			
3 11/16	SYAF 3 11/16 N	P4BA 311-SRB-CRE			
3 15/16	SYAF 3 15/16 N	P4BA 315-SRB-CRE	22220	97.3	2000
4	SYAF 4 N	P4BA 400-SRB-CRE			
4 7/16	SYAF 4 7/16 N	P4BA 407-SRB-CRE	22222	128.6	2000
4 15/16	SYAF 4 15/16 N	P4BA 415-SRB-CRE	22226	170.4	1800

For shaft diameter tolerances see page 306; for bearing information see page 328; for other seal speed limits see page 309.



A	B	C	D	E Max	E Min	F	G	H	A5	L	**Bolts** (No. req'd)	**End cover designation optional***
in												
4.500	15 1/4	4 3/8	1 3/4	11 5/8	13 1/8	–	1 3/4	8 9/16	5 5/8	3.4	(2) 7/8	ECM 218*
4.500	15 1/4	4 3/8	1 3/4	11 5/8	13 1/8	2 3/8	1 9/16	8 9/16	5 5/8	3.4	(4) 3/4	ECM 218*
4.938	16 1/2	4 3/4	2	12 5/8	14 1/2	2 3/4	1 13/16	9 7/16	6 5/32	3.48	(4) 3/4	ECM 220*
6.000	18 3/8	5 1/4	2 3/8	14 5/8	16	3 1/4	1 5/8	11	6 3/4	3.9	(4) 7/8	ECM 222*
6.000	20 1/8	5 7/8	2 3/8	15 5/8	17 3/8	3 3/8	2	12 1/32	7 13/32	4.606	(4) 1	ECM 226*

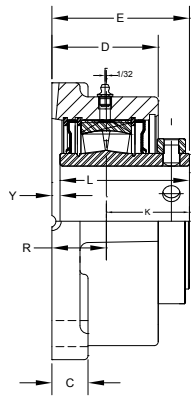
For shaft diameter tolerances see page 306; for bearing information see page 328; for other seal speed limits see page 309.

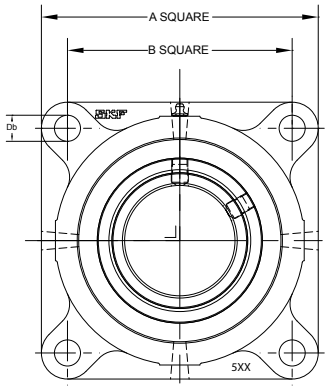
* Must be ordered separately.

Flange / set screw

F4BE
Cast-iron housing
4-bolt
Type E dimensions
Self-aligning
Locating or non-locating
TriGard seal

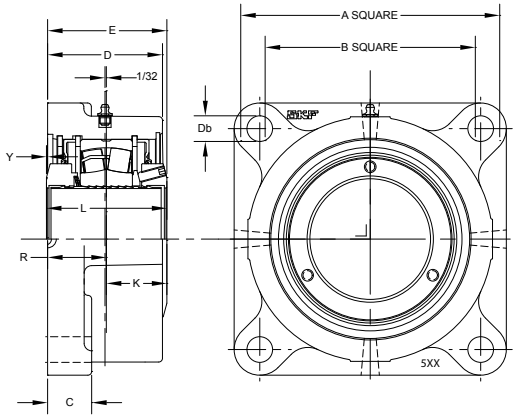
How to order	**F4BE 207-SRB-SRH**
Option	Specify
TriGard seal	F4BE 207-SRB-S**R**E
Garter spring seal	F4BE 207-SRB-S**G**H
Labyrinth seal	F4BE 207-SRB-S**L**E
Locating unit	F4BE 207-SRB-SR**H**
Non-locating unit	F4BE 207-SRB-SR**E**





Shaft dia. d_a	**Previous Designation**	**New Designation**	**Bearing basic load rating** Dynamic C	**TriGard speed limit**	**Mass**	**Bolt square** A	B	C	D	E	K	L	R	Y	**Bolts** (No. req'd)	**Bolt Hole** D_b
in			lbs	rpm	lbs	in									in	in
1 3/16	FYE 1 3/16	F4BE 103-SRB-SRE			7.6											
1 1/4	FYE 1 1/4	F4BE 104-SRB-SRE	16 600	5100	7.5	4 5/8	3 1/2	3/4	2 1/4	2 27/32	1	2 3/4	1 3/32	3/32	(4)-1/2	9/16
1 7/16	FYE 1 7/16	F4BE 107-SRB-SRE			7.2											
1 1/2	FYE 1 1/2	F4BE 108-SRB-SRE	16 600	5100	10.0	5 3/8	4 1/8	3/4	2 5/16	2 29/32	1	2 3/4	1 5/32	5/32	(4)-1/2	9/16
1 11/16	FYE 1 11/16	F4BE 111-SRB-SRE	17 300	4500	10.0	5 3/8	4 1/8	3/4	2 5/16	3 1/32	1	2 7/8	1 5/32	5/32	(4)-1/2	9/16
1 3/4	FYE 1 3/4	F4BE 112-SRB-SRE	17 300	4500	11.0											
1 15/16	FYE 1 15/16	F4BE 115-SRB-SRE	19 000	4100	11.0	5 1/2	4 3/8	3/4	2 1/4	2 31/32	1	2 7/8	1 3/32	3/32	(4)-1/2	9/16
2	FYE 2	F4BE 200-SRB-SRE	19 000	4100	11.0											
2 3/16	FYE 2 3/16	F4BE 203-SRB-SRE	22 400	3700	13.5	6 1/4	4 7/8	3/4	2 3/8	3 7/32	1 1/8	3 1/8	1 7/32	3/32	(4)-1/2	11/16
2 7/16	FYE 2 7/16	F4BE 207-SRB-SRE	33 300	3100	17.3	6 7/8	5 3/8	1	2 3/4	3 15/32	1 1/4	3 3/8	1 11/32	3/32	(4)-5/8	11/16
2 1/2	FYE 2 1/2	F4BE 208-SRB-SRE			17.1											
2 11/16	FYE 2 11/16	F4BE 211-SRB-SRE			28.5											
2 3/4	FYE 2 3/4	F4BE 212-SRB-SRE	35 500	2800	28.3	7 5/8	6	1 1/16	2 3/4	3 7/8	1 1/4	3 5/8	1 1/2	1/4	(4)-3/4	13/16
2 15/16	FYE 2 15/16	F4BE 215-SRB-SRE			27.2											
3	FYE 3	F4BE 300-SRB-SRE			27.0											
3 7/16	FYE 3 7/16	F4BE 307-SRB-SRE	56 900	2300	40.6	8 3/4	7	1 1/8	3 5/16	4 1/4	1 7/16	4 1/32	1 21/32	7/32	(4)-3/4	13/16
3 1/2	FYE 3 1/2	F4BE 308-SRB-SRE			40.1											
3 11/16	FYE 3 11/16	F4BE 311-SRB-SRE			64.1											
3 15/16	FYE 3 15/16	F4BE 315-SRB-SRE	69 900	2100	69.1	9 3/4	7 3/4	1 1/4	3 1/2	4 13/16	1 5/8	4 19/32	1 27/32	7/32	(4)-7/8	15/16
4	FYE 4	F4BE 400-SRB-SRE			68.1											
4 7/16	FYE 4 7/16	F4BE 407-SRB-SRE	91 700	1900	63.0	10 7/8	8 3/4	2 3/8	5 13/16	6.41	3.06	6.13	3.33	0.28	(4)-7/8	15/16
4 1/2	F4E 4 1/2	F4BE 408-SRB-SRE			62.5											

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.



Flange / ConCentra™

F4BE
Cast-iron housing
4-bolt
Type E dimensions
Self-aligning
Locating or non-locating
TriGard seal

How to order	**F4BE 207-SRB-CRH**
Option	Specify
TriGard seal	F4BE 207-SRB-C**R**E
Garter spring seal	F4BE 207-SRB-C**G**H
Labyrinth seal	F4BE 207-SRB-C**L**E
Locating unit	F4BE 207-SRB-CR**H**
Non-locating unit	F4BE 207-SRB-CR**E**

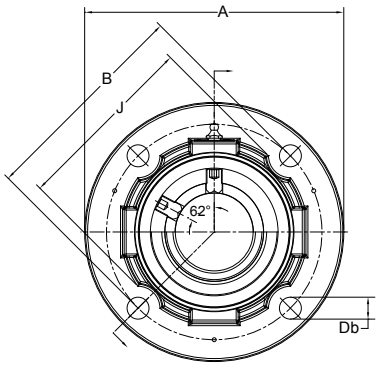
Shaft dia. d_a	**Previous Designation**	**New Designation**	**Bearing basic load rating** Dynamic C	**TriGard speed limit**	**Mass**	**Bolt square** A	B	C	D	E	K	L	R	Y	**Bolts** (No. req'd)	**Bolt Hole** D_b
in			lbs	rpm	lbs	in									in	in
1 7/16	FYE 1 7/16 N	F4BE 107-SRB-CRE	22 100	4000	7.2	4 5/8	3 1/2	3/4	2 1/4	2.318	1.272	2.543	1 3/32	0.226	(4) 1/2	9/16
1 1/2	FYE 1 1/2 N	F4BE 108-SRB-CRE	22 100	4000	10.0	5 3/8	4 1/8	3/4	2 5/16	2.380	1.272	2.543	1 5/32	0.163	(4) 1/2	9/16
1 11/16	FYE 1 11/16 N	F4BE 111-SRB-CRE	23 400	3700	10.0											
1 3/4	FYE 1 3/4 N	F4BE 112-SRB-CRE	23 400	3700	11.0											
1 15/16	FYE 1 15/16 N	F4BE 115-SRB-CRE	24 000	3500	11.0	5 1/2	4 3/8	3/4	2 1/4	2.318	1.272	2.543	1 3/32	0.226	(4) 1/2	9/16
2	FYE 2 N	F4BE 200-SRB-CRE	24 000	3500	11.0											
2 3/16	FYE 2 3/16 N	F4BE 203-SRB-CRE	24 000	3250	13.5	6 1/4	4 7/8	3/4	2 3/8	2.484	1.292	2.583	1 7/32	0.099	(4) 5/8	11/16
2 7/16	FYE 2 7/16 N	F4BE 207-SRB-CRE	44 500	2900	17.3	6 7/8	5 3/8	1	2 3/4	2.726	1.410	2.819	1 11/32	0.093	(4) 5/8	11/16
2 1/2	FYE 2 1/2 N	F4BE 208-SRB-CRE			17.1											
2 11/16	FYE 2 11/16 N	F4BE 211-SRB-CRE	48 800	2600	28.5	7 5/8	6	1 1/16	2 3/4	2.887	1.410	2.819	1 1/2	-0.068	(4) 3/4	13/16
2 3/4	FYE 2 3/4 N	F4BE 212-SRB-CRE			28.3											
2 15/16	FYE 2 15/16 N	F4BE 215-SRB-CRE			27.2											
3	FYE 3 N	F4BE 300-SRB-CRE			27											
3 3/16	FYE 3 3/16 N	F4BE 303-SRB-CRE			42.0	8 3/4	7	1 1/8	3 5/16	3.254	1.693	3.386	1 21/32	0.132	(4) 3/4	13/16
3 7/16	FYE 3 7/16 N	F4BE 307-SRB-CRE	74 400	2200	40.6											
3 1/2	FYE 3 1/2 N	F4BE 308-SRB-CRE			40.1											
3 11/16	FYE 3 11/16 N	F4BE 311-SRB-CRE			64.1											
3 15/16	FYE 3 15/16 N	F4BE 315-SRB-CRE	97 300	2000	69.1	9 3/4	7 3/4	1 1/4	3 1/2	3.560	1.742	3.484	1 27/32	-0.076	(4) 7/8	15/16
4	FYE 4 N	F4BE 400-SRB-CRE			68.1											
4 7/16	FYE 4 7/16 N	F4BE 407-SRB-CRE	128 500	1660	52.6	10 7/8	8 3/4	2 3/8	5 3/16	4.817	1.940	3.898	3.330	-0.919	(4) 7/8	15/16
4 1/2	FYE 4 1/2 N	F4BE 408-SRB-CRE			56.0											

For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

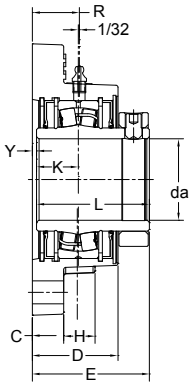
Flange (round) / set screw

F3BR/F4BR
Cast-iron housing
3-bolt or 4-bolt
Self-aligning
Locating or non-locating
TriGard seal

How to order	F4BR 207-SRB-SRH
Option	Specify
TriGard seal	F4BR 207-SRB-S**R**E
Garter spring seal	F4BR 207-SRB-S**G**H
Labyrinth seal	F4BR 207-SRB-S**L**E
Locating unit	F4BR 207-SRB-SR**H**
Non-locating unit	F4BR 207-SRB-SR**E**

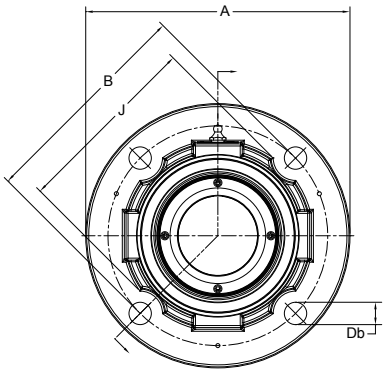


F3BR 107 and 108 have three mounting holes at 120°

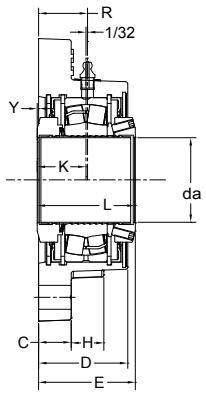


Shaft dia. d_a	Previous Designation	New Designation	Bearing basic load rating Dynamic C	TriGard speed limit	Mass	Bolt circle											Bolts (No. req'd)	Bolt Hole Db
						A	B	C	D	E	H	J	K	L	R	Y		
in			lbs	rpm	lbs	in											in	in
1 7/16	FYR 1 7/16	F3BR 107-SRB-SRE	16 600	5100	8.5	6 1/4	5	3/4	2 1/16	2 7/8	3/4	3 7/8	1	2 3/4	1 3/32	1/8	(3)-1/2	9/16
1 1/2	FYR 1 1/2	F3BR 108-SRB-SRE			8.4													
1 11/16	FYR 1 11/16	F4BR 111-SRB-SRE	17 300	4500	10.5	6 3/4	5 1/2	3/4	2 1/4	3	13/16	4 1/2	1	2 7/8	1 3/32	1/8	(4)-1/2	9/16
1 3/4	FYR 1 3/4	F4BR 112-SRB-SRE			11.0													
1 15/16	FYR 1 15/16	F4BR 115-SRB-SRE	19 000	4100	11.0	7	5 3/4	3/4	2 1/4	3	13/16	4 3/4	1	2 7/8	1 3/32	1/8	(4)-1/2	9/16
2	FYR 2	F4BR 200-SRB-SRE			10.5													
2 3/16	FYR 2 3/16	F4BR 203-SRB-SRE	22 400	3700	13.5	7 3/4	6 3/8	3/4	2 3/8	3 1/4	15/16	5 1/8	1 1/8	3 1/8	1 7/32	1/8	(4)-5/8	11/16
2 7/16	FYR 2 7/16	F4BR 207-SRB-SRE	33 300	3100	17.5	8 1/8	6 3/4	1 5/16	2 9/16	3 1/2	15/16	5 3/4	1 1/4	3 3/8	1 11/32	1/8	(4)-5/8	11/16
2 1/2	FYR 2 1/2	F4BR 208-SRB-SRE			17.5													
2 11/16	FYR 2 11/16	F4BR 211-SRB-SRE	35 500	2800	27.0	9 1/2	7 7/8	1 5/16	2 7/8	3 7/8	13/16	6 5/8	1 1/4	3 5/8	1 15/32	1/4	(4)-3/4	13/16
2 3/4	FYR 2 3/4	F4BR 212-SRB-SRE			27.0													
2 15/16	FYR 2 15/16	F4BR 215-SRB-SRE			26.0													
3	FYR 3	F4BR 300-SRB-SRE			26.0													
3 7/16	FYR 3 7/16	F4BR 307-SRB-SRE	56 900	2300	38.0	11 1/8	9 1/2	1 1/8	3 1/16	4 9/32	13/16	7 5/8	1 7/16	4 1/32	1 21/32	1/4	(4)-3/4	13/16
3 1/2	FYR 3 1/2	F4BR 308-SRB-SRE			38.0													
3 11/16	FYR 3 11/16	F4BR 311-SRB-SRE	69 900	2100	53.0	12 5/8	10 3/4	1 1/8	3 1/2	4 27/32	17/16	8 3/8	1 5/8	4 19/32	1 27/32	1/4	(4)-7/8	15/16
3 15/16	FYR 3 15/16	F4BR 315-SRB-SRE			52.0													
4	FYR 4	F4BR 400-SRB-SRE			52.0													

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.



F3BR 107 thru 108 N have three mounting holes at 120°



Flange (round) / ConCentra™

F3BR/F4BR
Cast-iron housing
3-bolt or 4-bolt
Self-aligning
Locating or non-locating
TriGard seal

How to order	F4BR 207-SRB-CRH
Option	Specify
TriGard seal	F4BR 207-SRB-C**R**E
Garter spring seal	F4BR 207-SRB-C**G**H
Labyrinth seal	F4BR 207-SRB-C**L**E
Locating unit	F4BR 207-SRB-CR**H**
Non-locating unit	F4BR 207-SRB-CR**E**

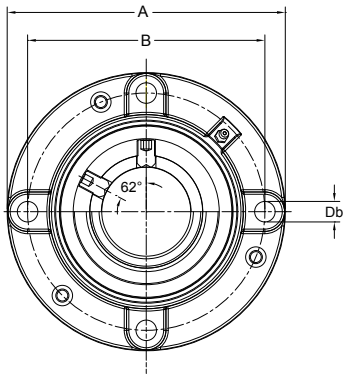
Shaft dia. d_a	**Previous Designation**	**New Designation**	**Bearing basic load rating** Dynamic C	**TriGard speed limit**	**Mass**	**Bolt circle** A	B	C	D	E	H	J	K	L	R	Y	**Bolts** (No. req'd)	**Bolt Hole** Db
in			lbs	rpm	lbs	in											in	in
1 7/16	FYR 1 7/16 N	F3BR 107-SRB-CRE	22100	4000	8.5	6 1/4	5	3/4	2 1/16	2.328	3/4	3 7/8	1.272	2.543	1 3/32	0.188	(3) 1/2	9/16
1 1/2	FYR 1 1/2 N	F3BR 108-SRB-CRE			8.4													
1 11/16	FYR 1 11/16 N	F4BR 111-SRB-CRE	23400	3700	10.5	6 3/4	5 1/2	3/4	2 1/4	2.359	13/16	4 1/2	1.272	2.543	1 3/32	0.156	(4) 1/2	9/16
1 3/4	FYR 1 3/4 N	F4BR 112-SRB-CRE			10.0													
1 15/16	FYR 1 15/16 N	F4BR 115-SRB-CRE	24000	3500	11.0	7	5 3/4	3/4	2 1/4	2.359	13/16	4 3/4	1.272	2.543	1 3/32	0.156	(4) 1/2	9/16
2	FYR 2 N	F4BR 200-SRB-CRE			10.5													
2 3/16	FYR 2 3/16 N	F4BR 203-SRB-CRE	29000	3250	13.5	7 3/4	6 3/8	3/4	2 3/8	2.516	15/16	5 1/8	1.292	2.583	1 7/32	0.310	(4) 5/8	11/16
2 7/16	FYR 2 7/16 N	F4BR 207-SRB-CRE	44500	2900	17.5	8 1/8	6 3/4	15/16	2 9/16	2.750	15/16	5 3/4	1.410	2.819	1 11/32	0.047	(4) 5/8	11/16
2 1/2	FYR 2 1/2 N	F4BR 208-SRB-CRE			17.2													
2 11/16	FYR 2 11/16 N	F4BR 211-SRB-CRE	48800	2600	27.0	9 1/2	7 7/8	15/16	2 7/8	2.891	1 3/16	6 5/8	1.410	2.819	1 15/32	-0.094	(4) 3/4	13/16
3	FYR 3 N	F4BR 300-SRB-CRE			26.0													
3 3/16	FYR 3 3/16 N	F4BR 303-SRB-CRE	74400	2200	38.0	11 1/8	9 1/2	1 1/8	3 1/16	3.281	1 3/16	7 5/8	1.693	3.386	1 21/32	0.250	(4) 3/4	13/16
3 1/2	FYR 3 1/2 N	F4BR 308-SRB-CRE			37.2													
3 11/16	FYR 3 11/16 N	F4BR 311-SRB-CRE	97300	2000	53.0	12 5/8	10 3/4	1 1/8	3 1/2	3.594	1 7/16	8 3/8	1.742	3.484	1 27/32	-0.141	(4) 7/8	15/16
4	FYR 4 N	F4BR 400-SRB-CRE			52.0													

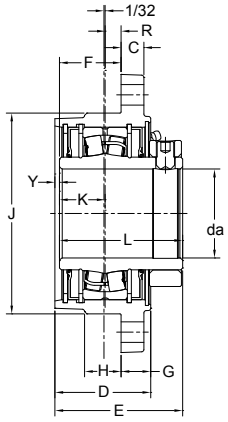
For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

Piloted flange / set screw

F4BRP/F6BRP
Cast-iron housing
4- or 6- bolt base
Self-aligning
Locating or non-locating
TriGard seal

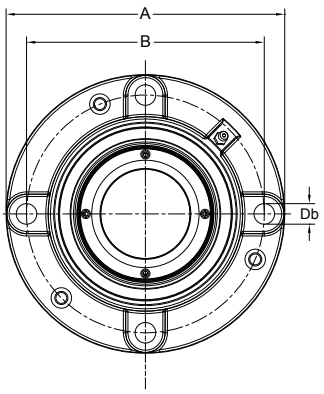
How to order	F4BRP 207-SRB-SRH
Option	Specify
TriGard seal	F4BRP 207-SRB-S**R**E
Garter spring seal	F4BRP 207-SRB-S**G**H
Labyrinth seal	F4BRP 207-SRB-S**L**E
Locating unit	F4BRP 207-SRB-SR**H**
Non-locating unit	F4BRP 207-SRB-SR**E**

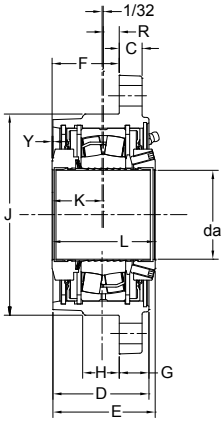




Shaft dia. d_a	Previous Designation	New Designation	Bearing basic load rating Dynamic C	TriGard speed limit	Mass	A	B	C	D	E	F	G	H	J*	K	L	R	Y	Bolts (No. req'd)	Bolt Hole D_b
in			lbs	rpm	lbs	in											in	in		
1 7/16	FYRP 1 7/16	F4BRP 107-SRB-SRE	16 600	5100	6.3	5 1/4	4 3/8	1/2	2 1/4	2 57/64	1 25/64	23/32	3/4	3.625	1	2 3/4	27/64	9/64	(4)-3/8	13/32
1 1/2	FYRP 1 1/2	F4BRP 108-SRB-SRE			6.3															
1 11/16	FYRP 1 11/16	F4BRP 111-SRB-SRE	17 300	4500	7.8	6 1/8	5 1/8	1/2	2 1/2	3 5/32	1 19/32	5/8	7/8	4.250	1	2 7/8	5/8	9/32	(4)-7/16	15/32
1 3/4	FYRP 13/4	F4BRP 112-SRB-SRE			7.7															
1 15/16	FYRP 115/16	F4BRP 115-SRB-SRE	19 000	4100	11.0	6 3/8	5 3/8	9/16	2 1/2	3 5/32	1 19/32	5/8	7/8	4.500	1	2 7/8	5/8	9/32	(4)-7/16	1/2
2	FYRP 2	F4BRP 200-SRB-SRE			11.0															
2 3/16	FYRP 2 3/16	F4BRP 203-SRB-SRE	22 400	3700	9.9	7 1/8	6	9/16	2 9/16	3 5/16	1 21/32	23/32	1	5.000	1 1/8	3 1/8	9/16	3/16	(4)-1/2	9/16
2 7/16	FYRP 2 7/16	F4BRP 207-SRB-SRE	33 300	3100	14.0	7 5/8	6 1/2	5/8	2 5/8	3 1/2	1 11/16	13/16	1	5.500	1 1/4	3 3/8	15/32	1/8	(4)-1/2	17/32
2 1/2	FYRP 2 1/2	F4BRP 208-SRB-SRE			13.5															
2 11/16	FYRP 2 11/16	F4BRP 211-SRB-SRE	35 500	2800	20.5	8 3/4	7 1/2	11/16	3 1/8	3 29/32	2 1/32	13/16	1 1/4	6.375	1 1/4	3 5/8	13/16	9/32	(4)-5/8	21/32
2 3/4	FYRP 2 3/4	F4BRP 212-SRB-SRE			20.5															
2 15/16	FYRP 2 15/16	F4BRP 215-SRB-SRE			19.5															
3	FYRP 3	F4BRP 300-SRB-SRE			19.5															
3 7/16	FYRP 3 7/16	F4BRP 307-SRB-SRE	56 900	2300	29.5	10 1/4	8 5/8	7/8	3 3/16	4 7/32	1 15/16	11/16	1 1/4	7.375	1 7/16	4 1/32	17/32	3/16	(4)-3/4	25/32
3 1/2	FYRP 3 1/2	F4BRP 308-SRB-SRE			29.0															
3 11/16	FYRP 3 11/16	F4BRP 311-SRB-SRE	69 900	2100	41.0	10 7/8	9 3/8	7/8	3 5/8	4 13/16	2 13/32	1	2	8.125	1 5/8	4 19/32	13/16	7/32	(4)-3/4	25/32
3 15/16	FYRP 3 15/16	F4BRP 315-SRB-SRE			40.0															
4	FYRP 4	F4BRP 400-SRB-SRE			40.0															
4 7/16	FYRP 4 7/16	F6BRP 407-SRB-SRE	91 700	1900	68.0	13 1/2	11 3/4	1	3 11/16	4 15/16	3 3/16	1 11/16	1 15/32	10.250	3 1/16	6 1/8	9/64	13/16	(6)-3/4	13/16
4 15/16	FYRP 4 15/16	F6BRP 415-SRB-SRE	123 000	1650	94.0	14 3/4	12 3/4	1 1/4	4 5/16	5 19/32	3 21/32	1 11/16	2 1/4	11.000	3 5/16	6 5/8	11/32	11/32	(6)-7/8	29/32

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.
*O.D. tolerance of the F4BRP and F6BRP unit pilot diameter (J) dimension is 0.000 in. to –0.002 in.





Piloted flange / ConCentra™

F4BRP/F6BRP
Cast-iron housing
4- or 6- bolt base
Self-aligning
Locating or non-locating
TriGard seal

How to order	**F4BRP 207-SRB-CRH**
Option	Specify
TriGard seal	F4BRP 207-SRB-C**R**E
Garter spring seal	F4BRP 207-SRB-C**G**H
Labyrinth seal	F4BRP 207-SRB-C**L**E
Locating unit	F4BRP 207-SRB-CR**H**
Non-locating unit	F4BRP 207-SRB-CR**E**

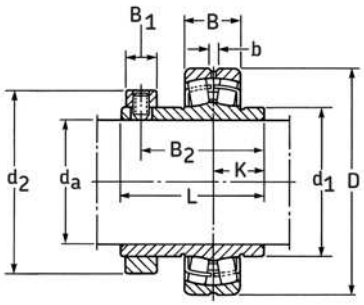
Shaft dia. d_a	**Previous Designation**	**New Designation**	**Bearing basic load rating** Dynamic C	**TriGard speed limit**	**Mass**	**Bolt circle** A	B	C	D	E	F	G	H	J*	K	L	R	Y	**Bolts** (No. req'd)	**Bolt Hole** D_b
in			lbs	rpm	lbs	in											in	in		
1 7/16	FYRP 1 7/16 N	F4BRP 107-SRB-CRE	22100	4000	6.3	5 1/4	4 3/8	1/2	2 1/4	2.391	1.650	3/32	3/4	3 5/8	1.272	2.543	27/64	0.156	(4) 3/8	13/32
1 1/2	FYRP 1 1/2 N	F4BRP 108-SRB-CRE			6.3															
1 11/16	FYRP 1 11/16 N	F4BRP 111-SRB-CRE	23400	3700	7.8	6 1/8	5 1/8	1/2	2 1/2	2.516	1.875	5/8	7/8	4 1/4	1.272	2.543	5/8	0.031	(4) 7/16	15/32
1 3/4	FYRP 1 3/4 N	F4BRP 112-SRB-CRE			7.7															
1 15/16	FYRP 1 15/16 N	F4BRP 115-SRB-CRE	24000	3500	8.2	6 3/8	5 3/8	9/16	2 1/2	2.578	1.906	5/8	7/8	4 1/2	1.272	2.543	5/8	0.031	(4) 7/16	1/2
2	FYRP 2 N	F4BRP 200-SRB-CRE			8.1															
2 3/16	FYRP 2 3/16 N	F4BRP 203-SRB-CRE	29000	3250	9.9	7 1/8	6	9/16	2 9/16	2.578	1.813	23/32	1	5	1.292	2.583	9/16	-0.031	(4) 1/2	9/16
2 7/16	FYRP 2 7/16 N	F4BRP 207-SRB-CRE	44500	2900	14.0	7 5/8	6 1/2	5/8	2 5/8	2.798	1.828	13/16	1	5 1/2	1.410	2.819	15/32	0.016	(4) 1/2	17/32
2 1/2	FYRP 2 1/2 N	F4BRP 208-SRB-CRE			13.5															
2 11/16	FYRP 2 11/16 N	F4BRP 211-SRB-CRE	48800	2600	20.5	8 3/4	7 1/2	11/16	3 29/32	2.938	2.188	13/16	1 1/4	6 3/8	1.410	2.819	13/16	-0.125	(4) 5/8	21/32
3	FYRP 3 N	F4BRP 300-SRB-CRE			19.5															
3 3/16	FYRP 3 3/16 N	F4BRP 303-SRB-CRE	74400	2200	29.5	10 1/4	8 5/8	7/8	3 3/16	3.219	2.250	1 1/16	1 1/4	7 3/8	1.693	3.386	17/32	0.156	(4) 3/4	25/32
3 1/2	FYRP 3 1/2 N	F4BRP 308-SRB-CRE			28.0															
3 11/16	FYRP 3 11/16 N	F4BRP 311-SRB-CRE	97300	2000	41.0	10 7/8	9 3/8	7/8	3 5/8	3.671	2.516	1	2	8 1/8	1.742	3.484	13/16	-0.109	(4) 3/4	25/32
4	FYRP 4 N	F4BRP 400-SRB-CRE			39.0															
4 7/16	FYRP 4 7/16 N	F6BRP 407-SRB-CRE	128600	2000	67.0	13 1/2	11 3/4	1	3 11/16	3.74	2.158	1 11/16	1 15/32	10 1/4	1.949	3.898	9/64	0.158	(6) 3/4	13/16
4 1/2	FYRP 4 1/2 N	F6BRP 408-SRB-CRE			66.0															
4 15/16	FYRP 4 15/16 N	F6BRP 415-SRB-CRE	170400	1800	93.0	14 3/4	12 3/4	1 1/4	4 5/16	4.542	2.689	1 11/16	2 1/4	11	2.303	4.606	9/64	0.064	(6) 7/8	13/16
5	FYRP 5 N	F6BRP 500-SRB-CRE			92.0															

For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

*O.D. tolerance of the F4BRP and F6BRP unit pilot diameter (J) dimension is 0.000 in. to –0.002 in.

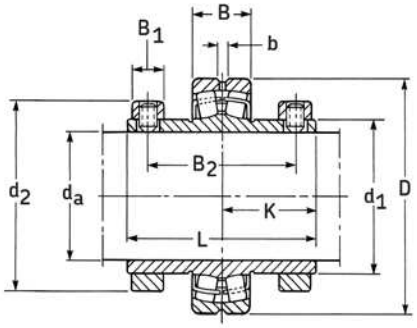
Radial internal clearance
SKF Unit roller insert bearings

Shaft sizes	Internal clearance	
in	in	mm
	min – max	min – max
1 7/16 – 1 1/2	.0010 – .0020	.025 – .050
1 11/16 – 2	.0012 – .0022	.030 – .055
2 3/16 – 2 1/2	.0014 – .0026	.035 – .065
2 11/16 – 3	.0018 – .0031	.045 – .080
3 7/16 – 4	.0024 – .0039	.060 – .100
4 7/16 – 4 1/2	.0028 – .0047	.070 – .120
4 15/16	.0035 – .0057	.090 – .145



Series 4762C

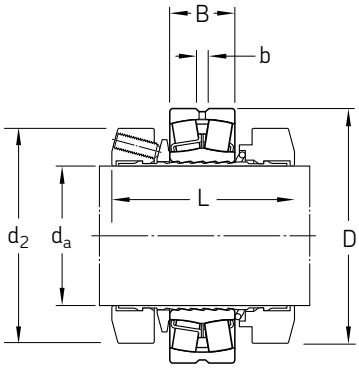
Shaft sizes
1 7/16 thru 4

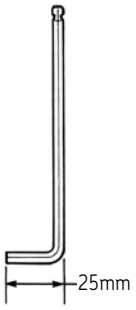


Series 4762B-VSB

Shaft sizes
4 7/16 thru 4 15/16

Shaft dia. d_a	Designation				Bearing basic load rating									Set screw size	Mass	Calculation factors			
		D	B	L	dynamic C	Static C_0	b	B_1	B_2	d_1	K	d_2							
in		mm	mm	in	lb		in							in	lb	e	Y_1	Y_2	Y_0
1 7/16	**476208-107 C**	80	23	2 3/4	16 600	18 300	.219	5/8	2 3/8	1.908	1	2 3/8		3/8-24 x 1/2	2.50	0.28	2.4	3.6	2.5
1 1/2	**476208-108 C**														2.45				
1 11/16	**476209-111 C**	85	23	2 7/8	17 300	19 800	.219	5/8	2 3/8	2.157	1	2 5/8		3/8-24 x 1/2	2.75	0.26	2.6	3.9	2.5
1 3/4	**476209-112 C**														2.70				
1 15/16	**476210-115 C**	90	23	2 7/8	19 000	22 500	.219	5/8	2 15/32	2.357	1	2 7/8		3/8-24 x 1/2	2.90	0.24	2.8	4.2	
2	**476210-200 C**														2.80				2.8
2 3/16	**476211-203 C**	100	25	3 1/8	22 400	26 500	.219	3/4	2 23/32	2.600	11/8	3 1/4		3/8-24 x 1/2	3.90	0.24	2.8	4.2	2.8
2 7/16	**476213-207 C**	120	31	3 3/8	33 300	41 100	.219	7/8	2 15/16	3.088	11/4	4		1/2-20 x 3/4	6.75	0.24	2.8	4.2	2.8
2 1/2	**476213-208 C**														6.75				
2 11/16	**476215-211 C**	130	31	3 5/8	35 500	46 800	.219	7/8	3 1/16	3.491	11/4	4 1/2		1/2-20 x 7/8	9.35	0.22	3	4.6	2.8
3 3/4	**476215-212 C**														9.35				
2 15/16	**476215-215 C**														9.35				
3	**476215-300 C**														9.35				
3 7/16	**476218-307 C**	160	40	4 1/32	56 900	76 400	.219	7/8	3 15/32	4.224	1 7/16	5 1/8		1/2-20 x 7/8	13.5	0.23	2.9	4.4	2.8
3 1/2	**476218-308 C**														13.5				
3 11/16	**476220-311 C**	180	46	4 19/32	69 900	93 300	.328	1	3 15/16	4.650	1 5/8	6		5/8-18 x 1	19.5	0.24	2.8	4.2	2.8
3 15/16	**476220-315 C**														19.5				
4	**476220-400 C**														19.5				
4 7/16	**476222B-407 B/VSB**	200	53	6 1/8	91 700	126 000	.328	1	5 1/8	5.029	3 1/16	6 1/8		5/8-18 x 7/8	29.5	0.25	2.7	4	2.5
4 1/2	**476222B-408 B/VSB**														29.5				
4 15/16	**476226B-415 B/VSB**	230	64	6 5/8	123 000	180 000	.438	1	5 5/8	5.819	3 5/16	6 7/8		5/8-18 x 7/8	46.5	0.26	2.6	3.9	2.5





3mm allen wrench
supplied with each unit

Radial internal clearance
SKF Unit roller insert bearings

Shaft sizes	Internal clearance	
in	in	mm
	min – max	min – max
$1\frac{7}{16}$ – $1\frac{1}{2}$	.0020 – .0026	.050 – .065
$1\frac{11}{16}$ – 2	.0024 – .0031	.060 – .080
$2\frac{3}{16}$ – $2\frac{1}{2}$	.0030 – .0037	.075 – .095
$2\frac{11}{16}$ – 3	.0037 – .0047	.095 – .120
$3\frac{7}{16}$ – 4	.0043 – .0055	.110 – .140

Shaft dia. d_a	**Designation**				**Bearing basic load rating** dynamic	Static				**Mass**	**No. mounting screws**	**Calculation factors**			
		D	B	L	C	C_0	b	d_2	B_1		(M6X1)				
in (mm)		mm	mm	in	lb		in	mm	in	lb	qty	e	Y_1	Y_2	Y_0
$1\frac{7}{16}$	**ABSY 475208-107**									1.85	3				
$1\frac{1}{2}$	**ABSY 475208-108**	80	23	$2\frac{11}{32}$	22 900	22 000	.219	66	$2\frac{1}{8}$	1.85	3	0.28	2.4	3.6	2.5
$1\frac{11}{16}$	**ABSY 475209-111**									2.42	3				
$1\frac{3}{4}$	**ABSY 475209-112**	85	23	$2\frac{11}{32}$	20 200	19 800	.219	71	$2\frac{1}{8}$	2.42	3	0.26	2.6	3.9	2.5
$1\frac{15}{16}$	**ABSY 475210-115**									2.42	3				
2	**ABSY 475210-200**	90	23	$2\frac{11}{32}$	21 700	22 500	.219	76	$2\frac{1}{8}$	2.42	3	0.24	2.8	4.2	2.8
$2\frac{3}{16}$	**ABSY 475211-203**	100	25	$2\frac{11}{32}$	30 100	30 800	.219	81	$2\frac{7}{32}$	2.98	3	0.24	2.8	4.2	2.8
$2\frac{7}{16}$	**ABSY 475213-207**									4.85	4				
$2\frac{1}{2}$	**ABSY 475213-208**	120	31	$2\frac{37}{64}$	43 400	41 100	.219	91	$2\frac{29}{64}$	4.85	4	0.24	2.8	4.2	2.8
$2\frac{11}{16}$	**ABSY 475215-211**									5.29	4				
$2\frac{3}{4}$	**ABSY 475215-212**									5.29	4				
$2\frac{15}{16}$	**ABSY 475215-215**	130	31	$2\frac{37}{64}$	47 700	54 000	.219	101	$2\frac{29}{64}$	5.29	5	0.22	3	4.6	2.8
3	**ABSY 475215-300**									5.29	4				
$3\frac{7}{16}$	**ABSY 475218-307**	160	40	$3\frac{9}{64}$	65 200	76 400	.219	120	$2\frac{53}{64}$	10.88	7	0.23	2.9	4.4	2.8
$3\frac{1}{2}$	**ABSY 475218-308**									10.88	7				
$3\frac{11}{16}$	**ABSY 475220-311**									15.95	7				
$3\frac{15}{16}$	**ABSY 475220-315**	180	46	$3\frac{25}{64}$	81 000	93 300	.328	130	$3\frac{1}{16}$	15.95	7	0.24	2.8	4.2	2.8
4	**ABSY 475220-400**									15.95	7				

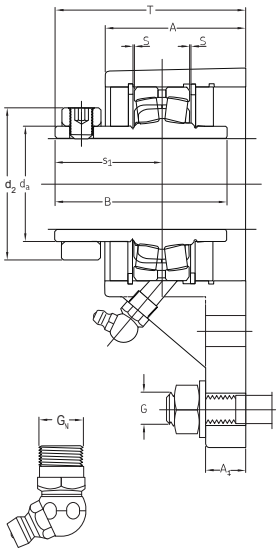
Flange / Set screw

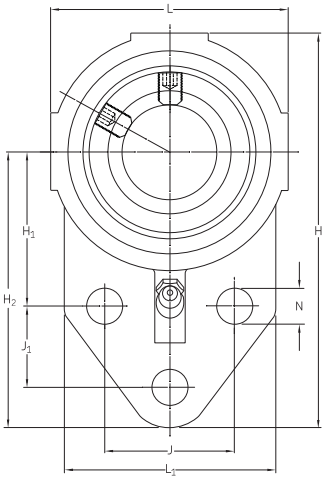
F3BBD/F4BBD
Cast ductile-iron housing
3-bolt/4-bolt
Self-aligning
Locating or non-locating
Radial lip seal

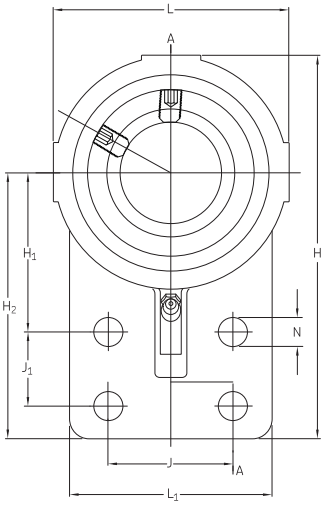
How to order	F3BBD 107-SRB-SRE	F4BBD 207-SRB-SRE
Option	Specify	Specify
Radial lip seal	F3BBD 107-SRB-**S**RE	F4BBD 207-SRB-**S**RE
Labyrinth seal	F3BBD 107-SRB-S**L**E	F4BBD 207-SRB-S**L**E
Locating unit	F3BBD 107-SRB-SR**H**	F4BBD 207-SRB-SR**H**
Non-locating unit	F3BBD 107-SRB-SR**E**	F4BBD 207-SRB-SR**E**

Shaft dia. d_a	**Designation**	**Bearing basic load rating** Dynamic C	**Radial lip seal speed limit**	**Mass**	d_2	A	A_1	B	H	H_1	H_2	J	J_1	L	L_1	s_1	S	T	**Bolt Dia. G** (No. req'd)	**Bolt Hole** D_b	G_N
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	NPT
1 7/16	F3BBD 107-SRB-SRE	16 600	5 100	5.2	2.470	2.250	0.625	2.750	6.125	2.375	4.250	2.00	1.250	3.75	3.250	1.750	0.031	3.031	(3) 1/2	0.5625	1/8-27
1 1/2	F3BBD 108-SRB-SRE	16 600	5 100	5.2	2.470	2.250	0.625	2.750	6.125	2.375	4.250	2.00	1.250	3.75	3.250	1.750	0.031	3.031	(3) 1/2	0.5625	1/8-27
1 15/16	F3BBD 115-SRB-SRE	19 000	4 100	7.7	2.905	2.250	0.563	2.875	7.313	2.938	5.188	2.75	1.625	4.25	4.000	1.875	0.031	3.156	(3) 1/2	0.5625	1/8-27
2	F3BBD 200-SRB-SRE	19 000	4 100	7.7	2.905	2.250	0.563	2.875	7.313	2.938	5.188	2.75	1.625	4.25	4.000	1.875	0.031	3.156	(3) 1/2	0.5625	1/8-27
2 7/16	F4BBD 207-SRB-SRE	33 300	3 100	15.6	4.000	2.656	0.750	3.375	9.094	3.750	6.250	3.00	1.750	5.688	4.875	2.125	0.031	3.531	(4) 5/8	0.6875	1/8-27
2 1/2	F4BBD 208-SRB-SRE	33 300	3 100	15.6	4.000	2.656	0.750	3.375	9.094	3.750	6.250	3.00	1.750	5.688	4.875	2.125	0.031	3.531	(4) 5/8	0.6875	1/8-27

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.







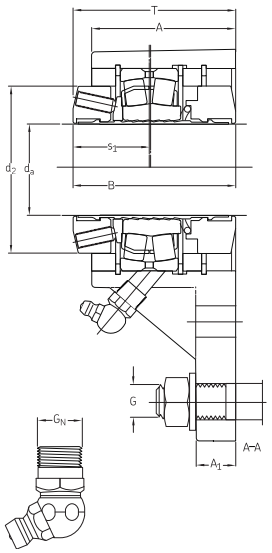
F3BBD/F4BBD

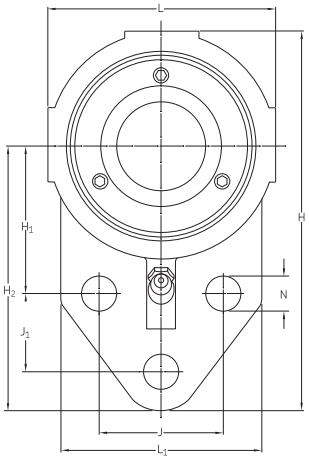
Cast ductile-iron housing
3-bolt/4-bolt
Self-aligning
Locating or non-locating
Radial lip seal

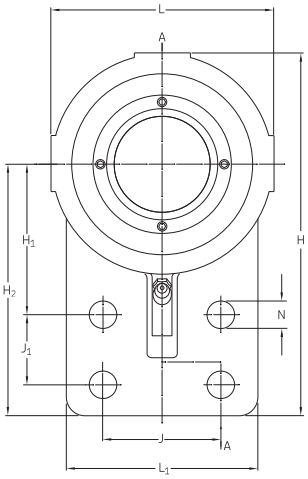
How to order	F3BBD 207-SRB-CRH	F4BBD 207-SRB-CRH
Option	Specify	Specify
Radial lip seal	F3BBD 107-SRB-**C**RH	F4BBD 207-SRB-**C**RH
Labyrinth seal	F3BBD 107-SRB-C**L**H	F4BBD 207-SRB-C**L**H
Locating unit	F3BBD 107-SRB-CR**H**	F4BBD 207-SRB-CR**H**
Non-locating unit	F3BBD 107-SRB-CR**E**	F4BBD 207-SRB-CR**E**

Shaft dia. d_a	**Designation**	**Bearing basic load rating** Dynamic C	**Radial lip seal speed limit**	**Mass**	d_2	A	A_1	B	H	H_1	H_2	J	J_1	L	L_1	s_1	S	T	**Bolt Dia. G** (No. req'd)	**Bolt Hole** D_b	G_N
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	NPT
1 7/16	F3BBD 107-SRB-CRE	21 700	3 800	5.4	2.598	2.250	0.625	2.543	6.125	2.375	4.250	2.00	1.250	3.75	3.250	1.260	0.031	2.531	(3) 1/2	0.5625	1/8-27
1 1/2	F3BBD 108-SRB-CRE	21 700	3 800	5.4	2.598	2.250	0.625	2.543	6.125	2.375	4.250	2.00	1.250	3.75	3.250	1.260	0.031	2.531	(3) 1/2	0.5625	1/8-27
1 15/16	F3BBD 115-SRB-CRE	23 400	3 300	6.9	2.992	2.250	0.563	2.543	7.313	2.938	5.188	2.75	1.625	4.25	4.000	1.260	0.031	2.531	(3) 1/2	0.5625	1/8-27
50 mm	F3BBD 50M-SRB-CRE	23 400	3 300	6.7	2.992	2.250	0.563	2.543	7.313	2.938	5.188	2.75	1.625	4.25	4.000	1.260	0.031	2.594	(3) 1/2	0.5625	1/8-27
2	F3BBD 200-SRB-CRE	23 400	3 300	6.9	2.992	2.250	0.563	2.543	7.313	2.938	5.188	2.75	1.625	4.25	4.000	1.260	0.031	2.531	(3) 1/2	0.5625	1/8-27
2 7/16	F4BBD 207-SRB-CRE	43 400	2 700	14.5	3.583	2.656	0.750	2.819	9.094	3.750	6.250	3.00	1.750	5.688	4.875	1.417	0.031	2.844	(4) 5/8	0.6875	1/8-27
2 1/2	F4BBD 208-SRB-CRE	43 400	2 700	14.5	3.583	2.656	0.750	2.819	9.094	3.750	6.250	3.00	1.750	5.688	4.875	1.417	0.031	2.844	(4) 5/8	0.6875	1/8-27

For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.



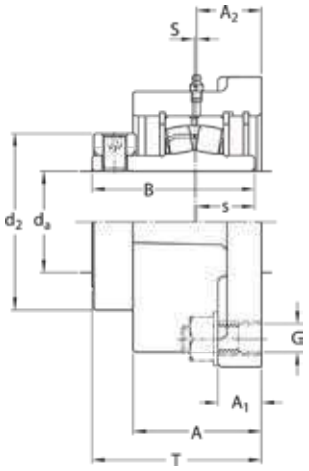


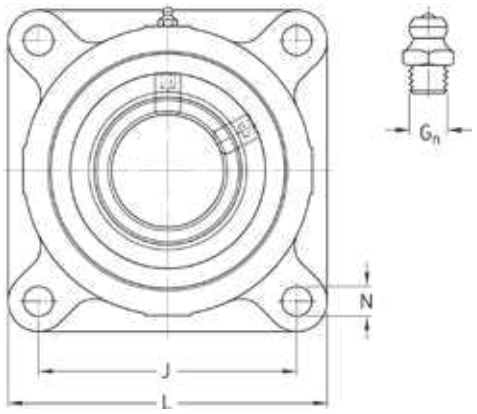


Flange 4-bolt / Set screw

F4B
Cast-iron housing
4-bolt
Self-aligning
Locating or non-locating
Radial lip seal

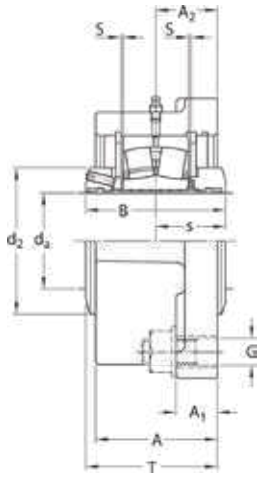
How to order	F4B 107-SRB-SRH
Option	Specify
Radial lip seal	F4B 107-SRB-**S**RH
Labyrinth seal	F4B 107-SRB-S**L**H
Locating unit	F4B 107-SRB-SR**H**
Non-locating unit	F4B 107-SRB-SR**E**

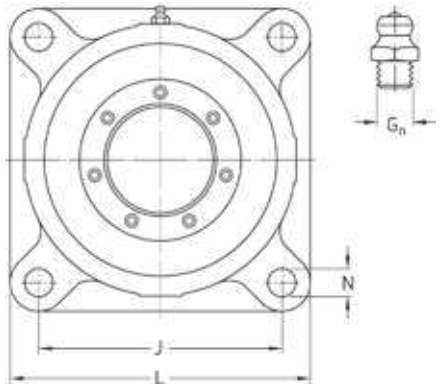




Shaft dia. d_a	Designation	Bearing basic load rating Dynamic C	Radial lip seal speed limit	Mass	d_2	A	A_1	A_2	B	Bolt square J	L	N	s_1	S	T	Bolt Dia. G (No. req'd)	Bolt Hole D_b	G_N
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	in	in	NPT
1 7/16	F4B 107-SRB-SRE	16 600	5 100	5.4	2.470	2.250	0.500	1.313	2.750	3.5	4.625	0.563	1.000	0.031	3.031	(4) 1/2	0.5625	1/8-27
1 1/2	F4B 108-SRB-SRE	16 600	5 100	5.2	2.470	2.250	0.500	1.313	2.750	3.5	4.625	0.563	1.000	0.031	3.031	(4) 1/2	0.5625	1/8-27
1 11/16	F4B 111-SRB-SRE	17 300	4 500	7.4	2.705	2.250	0.500	1.313	2.875	3.8	5.125	0.563	1.000	0.031	3.156	(4) 1/2	0.5625	1/8-27
1 3/4	F4B 112-SRB-SRE	17 300	4 500	7.6	2.705	2.250	0.500	1.313	2.875	3.8	5.125	0.563	1.000	0.031	3.156	(4) 1/2	0.5625	1/8-27
1 15/16	F4B 115-SRB-SRE	19 000	4 100	7.8	2.905	2.250	0.563	1.281	2.875	4.0	5.313	0.563	1.000	0.031	3.156	(4) 1/2	0.5625	1/8-27
2	F4B 200-SRB-SRE	19 000	4 100	7.6	2.905	2.250	0.563	1.281	2.875	4.0	5.313	0.563	1.000	0.031	3.156	(4) 1/2	0.5625	1/8-27
2 3/16	F4B 203-SRB-SRE	22 400	3 700	10.0	3.250	2.438	0.563	1.375	3.125	4.5	5.875	0.688	1.125	0.031	3.375	(4) 5/8	0.688	1/8-27
2 7/16	F4B 207-SRB-SRE	33 300	3 100	13.2	4.000	2.656	0.625	1.406	3.375	4.7	6.125	0.688	1.250	0.031	3.531	(4) 5/8	0.688	1/8-27
2 1/2	F4B 208-SRB-SRE	33 300	2 700	13.2	4.000	2.656	0.625	1.406	3.375	4.7	6.125	0.688	1.250	0.031	3.531	(4) 5/8	0.688	1/8-27
2 11/16	F4B 211-SRB-SRE	35 500	2 800	18.8	4.375	2.875	0.750	1.438	3.625	5.5	7.188	0.813	1.250	0.031	3.781	(4) 3/4	0.813	1/8-27
2 3/4	F4B 212-SRB-SRE	35 500	2 800	18.8	4.375	2.875	0.750	1.438	3.625	5.5	7.188	0.813	1.250	0.031	3.781	(4) 3/4	0.813	1/8-27
2 15/16	F4B 215-SRB-SRE	35 500	2 800	18.8	4.375	2.875	0.750	1.438	3.625	5.5	7.188	0.813	1.250	0.031	3.781	(4) 3/4	0.813	1/8-27
3 7/16	F4B 307-SRB-SRE	56 900	2 300	28.9	5.125	3.219	0.938	1.813	4.031	6.7	8.250	0.813	1.438	0.031	4.375	(4) 3/4	0.813	1/8-27
3 1/2	F4B 308-SRB-SRE	56 900	2 300	28.9	5.125	3.219	0.938	1.813	4.031	6.7	8.250	0.813	1.438	0.031	4.375	(4) 3/4	0.813	1/8-27
3 11/16	F4B 311-SRB-SRE	69 900	2 100	37.5	6.000	3.500	1.063	1.938	4.594	7.6	9.250	0.938	1.625	0.031	4.875	(4) 7/8	0.938	1/8-27
3 15/16	F4B 315-SRB-SRE	69 900	2 100	37.5	6.000	3.500	1.063	1.938	4.594	7.6	9.250	0.938	1.625	0.031	4.875	(4) 7/8	0.938	1/8-27
4	F4B 400-SRB-SRE	69 900	2 100	37.5	6.000	3.500	1.063	1.938	4.594	7.6	9.250	0.938	1.625	0.031	4.875	(4) 7/8	0.938	1/8-27
1 7/16	F4B 107-SRB-CRE	21 700	8 000	5.7	2.598	2.250	0.500	1.313	2.543	3.5	4.625	0.563	1.283	0.031	2.531	(4) 1/2	0.5625	1/8-27

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.





Flange 4-bolt / ConCentra™

F4B
Cast-iron housing
4-bolt
Self-aligning
Locating or non-locating
Radial lip seal

How to order	F4B 107-SRB-CRE
Option	Specify
Radial lip seal	F4B 107-SRB-**C**RH
Labyrinth seal	F4B 107-SRB-C**L**H
Locating unit	F4B 107-SRB-CR**H**
Non-locating unit	F4B 107-SRB-CR**E**

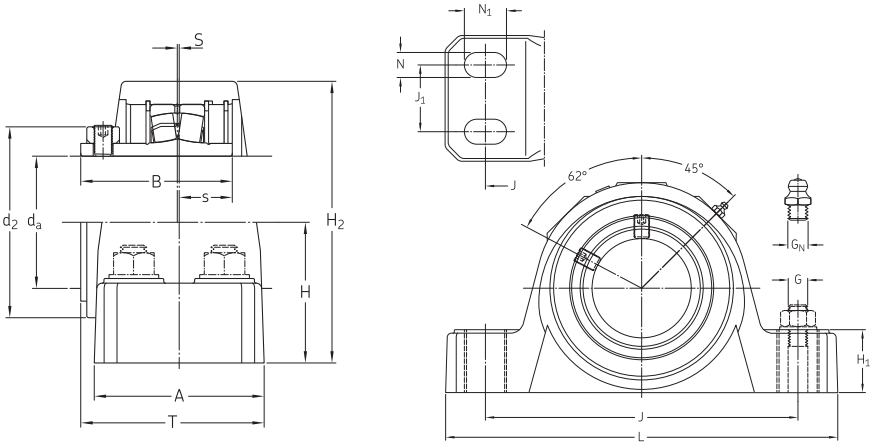
Shaft dia. d_a	Designation	Bearing basic load rating Dynamic C	Radial lip seal speed limit	Mass	d_2	A	A_1	A_2	B	Bolt square J	L	N	s_1	S	T	Bolt Dia. G (No. req'd)	Bolt Hole D_b	G_N
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	in	in	NPT
1 7/16	F4B 107-SRB-CRE	21 700	8 000	5.7	2.598	2.250	0.500	1.313	2.543	3.5	4.625	0.563	1.283	0.031	2.531	(4) 1/2	0.5625	1/8-27
1 1/2	F4B 108-SRB-CRE	21 700	8 000	5.6	2.598	2.250	0.500	1.313	2.543	3.5	4.625	0.563	1.283	0.031	2.531	(4) 1/2	0.5625	1/8-27
1 11/16	F4B 111-SRB-CRE	23 000	3 500	7.8	2.795	2.250	0.500	1.313	2.543	3.8	5.125	0.563	1.283	0.031	2.563	(4) 1/2	0.5625	1/8-27
1 3/4	F4B 112-SRB-CRE	23 000	3 500	7.7	2.795	2.250	0.500	1.313	2.543	3.8	5.125	0.563	1.283	0.031	2.563	(4) 1/2	0.5625	1/8-27
1 15/16	F4B 115-SRB-CRE	23 400	3 300	7.8	2.992	2.250	0.563	1.281	2.543	4.0	5.313	0.563	1.283	0.031	2.563	(4) 1/2	0.5625	1/8-27
50 mm	F4B 50M-SRB-CRE	23 400	3 300	7.8	2.992	2.250	0.563	1.281	2.543	4.0	5.313	0.563	1.283	0.031	2.563	(4) 1/2	0.5625	1/8-27
2	F4B 200-SRB-CRE	23 400	3 300	7.8	2.992	2.250	0.563	1.281	2.543	4.0	5.313	0.563	1.283	0.031	2.563	(4) 1/2	0.5625	1/8-27
2 3/16	F4B 203-SRB-CRE	28 100	3 100	10.0	3.189	2.438	0.563	1.375	2.583	4.5	5.875	0.688	1.283	0.031	2.656	(4) 5/8	0.688	1/8-27
2 7/16	F4B 207-SRB-CRE	43 400	2 700	12.1	3.583	2.656	0.625	1.406	2.819	4.7	6.125	0.688	1.402	0.031	2.656	(4) 5/8	0.688	1/8-27
2 1/2	F4B 208-SRB-CRE	43 400	2 700	12.1	3.583	2.656	0.625	1.406	2.819	4.7	6.125	0.688	1.402	0.031	2.656	(4) 5/8	0.688	1/8-27
2 11/16	F4B 211-SRB-CRE	47 700	2 500	18.4	3.976	2.875	0.750	1.438	2.819	5.5	7.188	0.813	1.402	0.031	2.813	(4) 3/4	0.813	1/8-27
2 3/4	F4B 212-SRB-CRE	47 700	2 500	18.2	3.976	2.875	0.750	1.438	2.819	5.5	7.188	0.813	1.402	0.031	2.813	(4) 3/4	0.813	1/8-27
2 15/16	F4B 215-SRB-CRE	47 700	2 500	17.7	3.976	2.875	0.750	1.438	2.819	5.5	7.188	0.813	1.402	0.031	2.813	(4) 3/4	0.813	1/8-27
3 3/16	F4B 303-SRB-CRE	73 100	2 100	27.8	4.724	3.219	0.938	1.813	3.386	6.7	8.250	0.813	1.754	0.031	3.406	(4) 3/4	0.813	1/8-27
3 7/16	F4B 307-SRB-CRE	73 100	2 100	26.6	4.724	3.219	0.938	1.813	3.386	6.7	8.250	0.813	1.754	0.031	3.406	(4) 3/4	0.813	1/8-27
3 1/2	F4B 308-SRB-CRE	73 100	2 100	27.8	4.724	3.219	0.938	1.813	3.386	6.7	8.250	0.813	1.754	0.031	3.406	(4) 3/4	0.813	1/8-27
3 11/16	F4B 311-SRB-CRE	95 700	2 000	35.6	5.118	3.500	1.063	1.938	3.483	7.6	9.250	0.938	1.746	0.031	3.656	(4) 7/8	0.938	1/8-27
3 15/16	F4B 315-SRB-CRE	95 700	2 000	34.0	5.118	3.500	1.063	1.938	3.483	7.6	9.250	0.938	1.746	0.031	3.656	(4) 7/8	0.938	1/8-27
4	F4B 400-SRB-CRE	95 700	2 000	35.6	5.118	3.500	1.063	1.938	3.483	7.6	9.250	0.938	1.746	0.031	3.656	(4) 7/8	0.938	1/8-27

For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

Pillow Block 4-bolt / Set screw

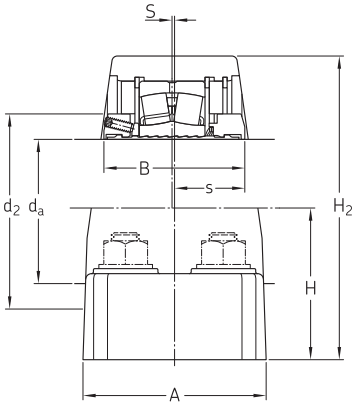
P4B
Cast-iron housing
4-bolt base
Self-aligning
Locating or non-locating
Radial lip seal

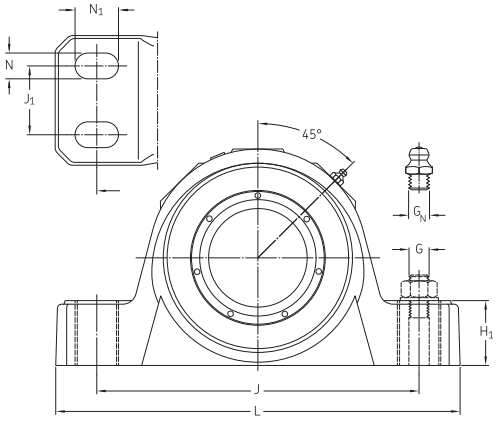
How to order	P4B 115-SRB-SRH
Option	Specify
Radial lip seal	P4B 115-SRB-**S**RH
Labyrinth seal	P4B 115-SRB-S**L**H
Locating unit	P4B 115-SRB-SR**H**
Non-locating unit	P4B 115-SRB-SR**E**



Shaft dia. d_a	Designation	Bearing basic load rating Dynamic C	Radial lip seal speed limit	Mass	H	L	A	H_1	Jmin	Jmax	J_1	H_2	T	s	B	Bolts (No. req'd)
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	
1 15/16	P4B 115-SRB-SRE	19 000	4 100	11.2	2.250	8.000	3.188	1.313	6.063	6.438	1.594	4.563	3.500	1.000	2.875	(4) 1/2
2	P4B 200-SRB-SRE	19 000	4 100	11.1	2.250	8.000	3.188	1.313	6.063	6.438	1.594	4.563	3.500	1.000	2.875	(4) 1/2
2 3/16	P4B 203-SRB-SRE	22 400	3 700	14.1	2.500	8.875	3.250	1.500	6.563	6.938	1.688	5.000	3.656	1.125	3.125	(4) 1/2
2 7/16	P4B 207-SRB-SRE	33 000	3 100	18.2	2.750	9.250	3.375	1.625	6.938	7.313	1.750	5.594	3.844	1.250	3.375	(4) 1/2
2 1/2	P4B 208-SRB-SRE	33 000	3 100	17.9	2.750	9.250	3.375	1.625	6.938	7.313	1.750	5.594	3.844	1.250	3.375	(4) 1/2
2 11/16	P4B 211-SRB-SRE	35 500	2 800	24.7	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	4.281	1.250	3.625	(4) 5/8
2 3/4	P4B 212-SRB-SRE	35 500	2 800	24.4	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	4.281	1.250	3.625	(4) 5/8
2 15/16	P4B 215-SRB-SRE	35 500	2 800	23.5	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	4.281	1.250	3.625	(4) 5/8
3	P4B 300-SRB-SRE	35 500	2 800	23.2	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	4.281	1.250	3.625	(4) 5/8
3 3/16	P4B 303-SRB-SRE	56 900	2 300	40.3	3.750	13.000	4.125	2.250	9.375	10.625	2.000	7.563	4.688	1.438	4.031	(4) 3/4
3 7/16	P4B 307-SRB-SRE	56 900	2 300	38.8	3.750	13.000	4.125	2.250	9.375	10.625	2.000	7.563	4.688	1.438	4.031	(4) 3/4
3 1/2	P4B 308-SRB-SRE	56 900	2 300	40.3	3.750	13.000	4.125	2.250	9.375	10.625	2.000	7.563	4.688	1.438	4.031	(4) 3/4
3 11/16	P4B 311-SRB-SRE	69 900	2 100	54.2	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	5.250	1.625	4.594	(4) 3/4
3 15/16	P4B 315-SRB-SRE	69 900	2 100	52.2	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	5.250	1.625	4.594	(4) 3/4
100 mm	P4B 100M-SRB-SRE	69 900	2 100	52.2	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	5.250	1.625	4.594	(4) 3/4
4	P4B 400-SRB-SRE	69 900	2 100	51.7	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	5.250	1.625	4.594	(4) 3/4
4 7/16	P4B 407-SRB-SRE	91 700	1 900	77.1	4.750	16.500	4.750	2.750	13.000	14.000	2.500	9.625	5.469	3.063	6.125	(4) 3/4
4 15/16	P4B 415-SRB-SRE	123 000	1 650	115.6	5.500	18.625	5.375	3.000	15.000	16.000	2.750	11.125	6.031	3.313	6.625	(4) 7/8

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.





Pillow Block 4-bolt / ConCentra™

P4B
Cast-iron housing
4-bolt base
Self-aligning
Locating or non-locating
Radial lip seal

How to order	**P4B 115-SRB-CRH**
Option	Specify
Radial lip seal	P4B 115-SRB-**C**RH
Labyrinth seal	P4B 115-SRB-C**L**H
Locating unit	P4B 115-SRB-CR**H**
Non-locating unit	P4B 115-SRB-CR**E**

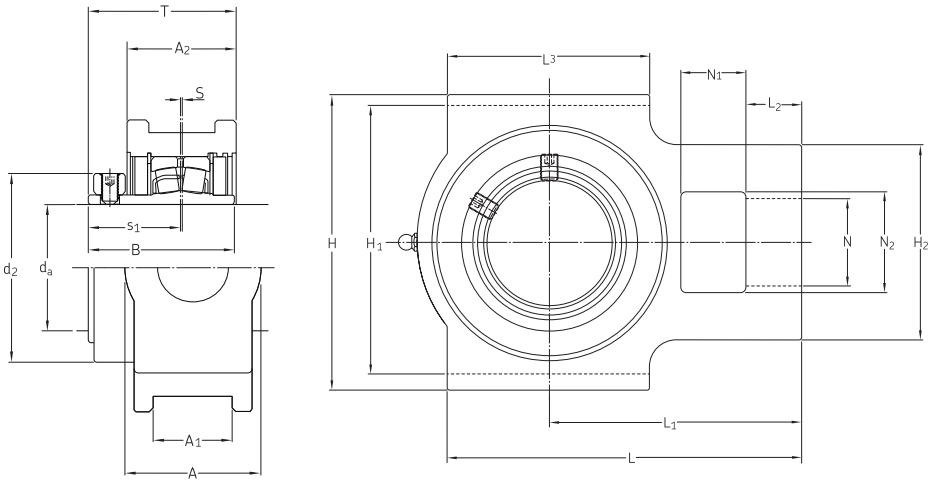
Shaft dia. d_a	**Designation**	**Bearing basic load rating** Dynamic C	**Radial lip seal speed limit**	**Mass**	H	L	A	H_1	Jmin	Jmax	J_1	H_2	T	s	B	**Bolts** (No. req'd)
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	in
1 15/16	P4B 115-SRB-CRE	23 400	3 300	11.3	2.250	8.000	3.188	1.313	6.063	6.438	1.594	4.563	2.859	1.281	2.547	(4) 1/2
50mm	P4B 50M-SRB-CRE	23 400	3 300	11.3	2.250	8.000	3.188	1.313	6.063	6.438	1.594	4.563	2.859	1.281	2.547	(4) 1/2
2	P4B 200-SRB-CRE	23 400	3 300	11.1	2.250	8.000	3.188	1.313	6.063	6.438	1.594	4.563	2.859	1.281	2.547	(4) 1/2
2 3/16	P4B 203-SRB-CRE	28 100	3 100	13.8	2.500	8.875	3.250	1.500	6.563	6.938	1.688	5.000	2.922	1.281	2.578	(4) 1/2
2 7/16	P4B 207-SRB-CRE	43 400	2 700	16.9	2.750	9.250	3.375	1.625	6.938	7.313	1.750	5.594	3.094	1.406	2.813	(4) 1/2
2 1/2	P4B 208-SRB-CRE	43 400	2 700	16.8	2.750	9.250	3.375	1.625	6.938	7.313	1.750	5.594	3.094	1.406	2.813	(4) 1/2
2 11/16	P4B 211-SRB-CRE	47 700	2 500	23.2	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	3.281	1.406	2.813	(4) 1/2
2 3/4	P4B 212-SRB-CRE	47 700	2 500	23.0	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	3.281	1.406	2.813	(4) 5/8
2 15/16	P4B 215-SRB-CRE	47 700	2 500	22.4	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	3.281	1.406	2.813	(4) 5/8
3	P4B 300-SRB-CRE	47 700	2 500	22.1	3.250	10.438	3.750	1.625	7.938	8.313	1.875	6.438	3.281	1.406	2.813	(4) 5/8
3 3/16	P4B 303-SRB-CRE	73 100	2 100	37.7	3.750	13.000	4.125	2.250	9.375	10.625	2.000	7.563	3.688	1.750	3.375	(4) 3/4
3 7/16	P4B 307-SRB-CRE	73 100	2 100	36.6	3.750	13.000	4.125	2.250	9.375	10.625	2.000	7.563	3.688	1.750	3.375	(4) 3/4
3 1/2	P4B 308-SRB-CRE	73 100	2 100	36.3	3.750	13.000	4.125	2.250	9.375	10.625	2.000	7.563	3.688	1.750	3.375	(4) 3/4
3 11/16	P4B 311-SRB-CRE	75 700	2 000	50.2	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	4.000	1.734	3.484	(4) 3/4
3 15/16	P4B 315-SRB-CRE	75 700	2 000	48.8	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	4.000	1.734	3.484	(4) 3/4
100mm	P4B 100M-SRB-CRE	75 700	2 000	48.8	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	4.000	1.734	3.484	(4) 3/4
4	P4B 400-SRB-CRE	75 700	2 000	48.4	4.250	15.250	4.500	2.438	12.125	12.875	2.250	8.438	4.000	1.734	3.484	(4) 3/4
4 7/16	P4B 407-SRB-CRE	128 500	1 700	70.4	4.750	16.500	4.750	2.750	13.000	14.000	2.500	9.625	4.313	1.938	3.375	(4) 3/4
4 15/16	P4B 415-SRB-CRE	170 300	1 550	108.5	5.500	18.625	5.375	3.00	15.000	16.000	2.750	11.125	4.969	2.313	4.594	(4) 7/8

For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

Take-Up / Set screw

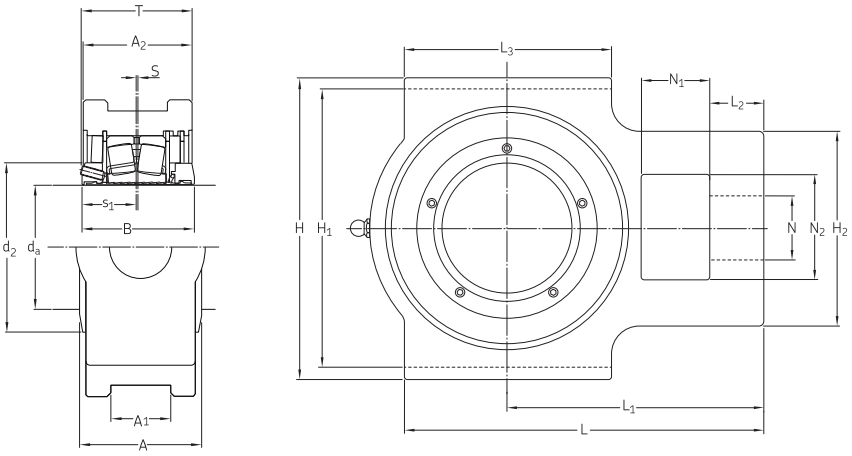
WSTU
Cast-iron housing
Self-aligning
Locating or non-locating
Radial lip seal

How to order	WSTU 115-SRB-SRH
Option	Specify
Radial lip seal	WSTU 115-SRB-**S**RH
Labyrinth seal	WSTU 115-SRB-S**L**H
Locating unit	WSTU 115-SRB-SR**H**
Non-locating unit	WSTU 115-SRB-SR**E**



Shaft dia. d_a	Designation	Bearing basic load rating Dynamic C	Radial lip seal speed limit	Mass	d_2	H	H_1	L_2	L_1	A_1	N_2	N	L	H_2	s_1	B	N_1	A_2
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	in		
1 7/16	WSTU 107-SRB-SRE	16 600	5 100	6.2	2.470	4.125	3.500	0.688	3.188	0.53	1.438	0.875	5.063	2.438	1.775	2.75	0.625	2.063
1 1/2	WSTU 108-SRB-SRE	16 600	5 100	6.1	2.470	4.125	3.500	0.688	3.188	0.53	1.438	0.875	5.063	2.438	1.775	2.75	0.625	2.063
1 11/16	WSTU 111-SRB-SRE	17 300	4 500	8.8	2.705	4.750	4.000	0.938	3.812	0.69	1.938	1.125	5.938	3.313	1.875	2.875	0.750	2.031
1 3/4	WSTU 112-SRB-SRE	17 300	4 500	8.8	2.705	4.750	4.000	0.938	3.813	0.69	1.938	1.125	5.938	3.313	1.875	2.875	0.750	2.031
1 15/16	WSTU 115-SRB-SRE	19 000	4 100	9.3	2.905	4.750	4.000	0.938	3.938	0.69	1.938	1.125	6.188	3.313	1.972	2.875	0.750	2.000
2	WSTU 200-SRB-SRE	19 000	4 100	9.1	2.905	4.750	4.000	0.938	3.938	0.69	1.938	1.125	6.188	3.313	1.972	2.875	0.750	2.000
2 3/16	WSTU 203-SRB-SRE	22 400	3 700	11.9	3.250	5.250	4.500	0.938	4.625	0.81	2.250	1.375	7.063	3.875	2.019	3.125	1.250	2.219
2 7/16	WSTU 207-SRB-SRE	33 300	3 100	17.3	4.000	5.875	5.125	1.063	5.000	1.06	2.500	1.375	7.688	4.250	2.160	3.375	1.250	2.563
2 1/2	WSTU 208-SRB-SRE	33 300	3 100	17.1	4.000	5.875	5.125	1.063	5.000	1.06	2.500	1.375	7.688	4.250	2.160	3.375	1.250	2.563
2 11/16	WSTU 211-SRB-SRE	35 500	2 800	23.5	4.375	6.656	5.940	1.125	5.750	1.81	2.750	1.625	8.875	4.875	2.392	3.625	1.500	2.688
2 3/4	WSTU 212-SRB-SRE	35 500	2 800	23.1	4.375	6.656	5.940	1.125	5.750	1.81	2.750	1.625	8.875	4.875	2.392	3.625	1.500	2.688
2 15/16	WSTU 215-SRB-SRE	35 500	2 800	22.4	4.375	6.656	5.940	1.125	5.750	1.81	2.750	1.625	8.875	4.875	2.392	3.625	1.500	2.688
3	WSTU 300-SRB-SRE	35 500	2 800	22.4	4.375	6.656	5.940	1.125	5.750	1.81	2.750	1.625	8.875	4.875	2.392	3.625	1.500	2.688
3 7/16	WSTU 307-SRB-SRE	56 900	2 300	33.0	5.125	7.813	6.813	1.063	6.375	1.81	2.875	1.875	10.063	5.125	2.613	4.031	1.625	3.063
100 mm	WSTU 100M-SRB-SRE	69 900	2 000	55.2	6.000	9.438	8.625	1.125	7.375	2.06	3.375	2.125	11.813	6.000	2.988	4.594	2.125	3.438

For shaft diameter tolerances see page 306; for bearing information see page 326; for other seal speed limits see page 310.



WSTU
Cast-iron housing
Self-aligning
Locating or non-locating
Radial lip seal

How to order	WSTU 115-SRB-CRH
Option	Specify
Radial lip seal	WSTU 115-SRB-**C**RH
Labyrinth seal	WSTU 115-SRB-C**L**H
Locating unit	WSTU 115-SRB-CR**H**
Non-locating unit	WSTU 115-SRB-CR**E**

Shaft dia. d_a	Designation	Bearing basic load rating Dynamic C	Radial lip seal speed limit	Mass	d_2	H	H_1	L_2	L_1	A_1	N_2	N	L	H_2	s_1	B	N_1	A_2
in		lbs	rpm	lbs	in	in	in	in	in	in	in	in	in	in	in	in		
1 7/16	WSTU 107-SRB-CRE	21 700	3 800	6.5	2.598	4.125	3.500	0.688	3.188	0.53	1.438	0.875	5.063	2.438	1.260	2.543	0.625	2.063
1 1/2	WSTU 108-SRB-CRE	21 700	3 800	6.3	2.470	4.125	3.500	0.688	3.188	0.53	1.438	0.875	5.063	2.438	1.260	2.543	0.625	2.063
1 11/16	WSTU 111-SRB-CRE	23 000	3 500	8.9	2.795	4.750	4.000	0.938	3.813	0.69	1.938	1.125	5.938	3.313	1.296	2.543	0.750	2.031
1 3/4	WSTU 112-SRB-CRE	23 000	3 500	8.9	2.795	4.750	4.000	0.938	3.813	0.69	1.938	1.125	5.938	3.313	1.296	2.543	0.750	2.031
1 15/16	WSTU 115-SRB-CRE	23 400	3 300	6.5	2.992	4.750	4.000	0.938	3.938	0.69	1.938	1.125	6.188	3.313	1.357	2.543	0.750	2.000
2	WSTU 200-SRB-CRE	23 400	3 300	9.1	2.992	4.750	4.000	0.938	3.938	0.69	1.938	1.125	6.188	3.313	1.357	2.543	0.750	2.000
2 3/16	WSTU 203-SRB-CRE	28 100	3 100	11.8	3.189	5.250	4.500	0.938	4.625	0.81	2.250	1.375	7.063	3.875	1.335	2.583	1.250	2.219
2 7/16	WSTU 207-SRB-CRE	43 400	2 700	16.2	3.583	5.875	5.125	1.063	5.000	1.06	2.500	1.375	7.688	4.250	1.452	2.819	1.250	2.563
2 1/2	WSTU 208-SRB-CRE	43 400	2 700	16.1	3.583	5.875	5.125	1.063	5.000	1.06	2.500	1.375	7.688	4.250	1.452	2.819	1.250	2.563
2 11/16	WSTU 211-SRB-CRE	47 700	2 500	22.1	3.976	6.656	5.940	1.125	5.750	1.81	2.750	1.625	8.875	4.875	1.435	2.819	1.500	2.688
2 3/4	WSTU 212-SRB-CRE	47 700	2 500	21.9	3.976	6.656	5.940	1.125	5.750	1.81	2.750	1.625	8.875	4.875	1.435	2.819	1.500	2.688
2 15/16	WSTU 215-SRB-CRE	47 700	2 500	21.2	3.976	6.656	5.940	1.125	5.750	1.81	2.750	1.625	8.875	4.875	1.435	2.819	1.500	2.688
3 3/16	WSTU 303-SRB-CRE	73 100	2 100	29.8	4.724	7.813	6.813	1.063	6.375	1.81	2.875	1.875	8.875	5.125	1.668	3.386	1.625	3.063
3 7/16	WSTU 307-SRB-CRE	73 100	2 100	30.9	4.724	7.813	6.813	1.063	6.375	1.81	2.875	1.875	10.063	5.125	1.668	3.386	1.625	3.063
100 mm	WSTU 100-SRB-CRE	95 700	2 000	51.7	5.118	9.438	8.625	1.125	7.375	2.06	3.375	2.125	11.813	6.000	1.785	3.483	2.125	3.438

For shaft diameter tolerances see page 307; for bearing information see page 327; for other seal speed limits see page 311.

Notes



Split pillow blocks
(inch series)

F SAF D 22634 TA

Prefix

F	Four bolt base (when optional)

Housing style

S	Standard pillow block
D	Heavy duty series
A	Inch dimensions
F	Triple ring seal

Material

_	Cast iron (standard)
D	Ductile iron
S	Cast steel

Housing designation

Cast-iron	Cast-steel	Basic bearing series	Mounting method
13(00)		13(00)	Cylindrical
15(00)		12(00)K	Adapter
16(00)		13(00)K	Adapter
222(00)	222(00)	222(00) CC/W33	Cylindrical
223(00)	223(00)	223(00) CC/W33	Cylindrical
225(00)	225(00)	222(00) CCK33	Adapter
226(00)	226(00)	223(00) CCK33	Adapter
230(00)KA		230(00) CCK33	Adapter
C22(00)		C22(00)	Cylindrical
C23(00)		C23(00)	Cylindrical
C25(00)		C22(00)K	Adapter
C26(000		C23(00)K	Adapter
C30(00)KA		C30(00)K	Adapter

Suffix

T	Taconite contact seal
TV	Taconite V-ring seal
TA or TVA	Taconite seal with button head grease fitting
TB or TVB	Taconite seal with giant button head grease fitting
Y	One end closed (i.e., supplied with end plug)
-11	Four-bolt base (when optional / cast steel SAFS only)
/VZ###	Special feature / modification
-##	Special feature / modification
TLC	PosiTrac Plus™ seal

Introduction

SKF split pillow blocks are the most versatile mounted assemblies and are designed for extremely demanding applications. They can accommodate a large range of shaft sizes and handle higher loads. They come standard with heavy gray cast-iron housings, and provide more flexibility in sealing options and lubrication (grease or oil can be used).

These assemblies are predominately designed for radial loads that are carried directly through the base. Some of their applications include:

- Strip processing equipment steel mills
- Conveyors that must accommodate larger shaft sizes or special seals
- Fans and blowers
- Felt rolls and drying cylinders within the paper industry
- Crushers, hammer mills, and kilns in the processing industry

The standard split pillow block is made from cast-iron, while cast-steel or ductile iron are available as options. The housing is horizontally split and the cap and base are a mated set; they cannot be interchanged with other caps or bases. For accurate realignment, each cap is mated to the base with dowel pins. Split pillow blocks are available in two-and four-bolt base mounting configurations, which allows for moderate adjustments during installation. Sealing options for split pillow blocks include the LER/LOR triple ring seal, the contact seal, taconite seal, and the end plug.

SKF split pillow blocks come in three styles, SAF, SAW and SDAF. A fourth type, known as the extended range, is custom designed for demanding applications, where requirements include shaft sizes of 10 to 20 inches.

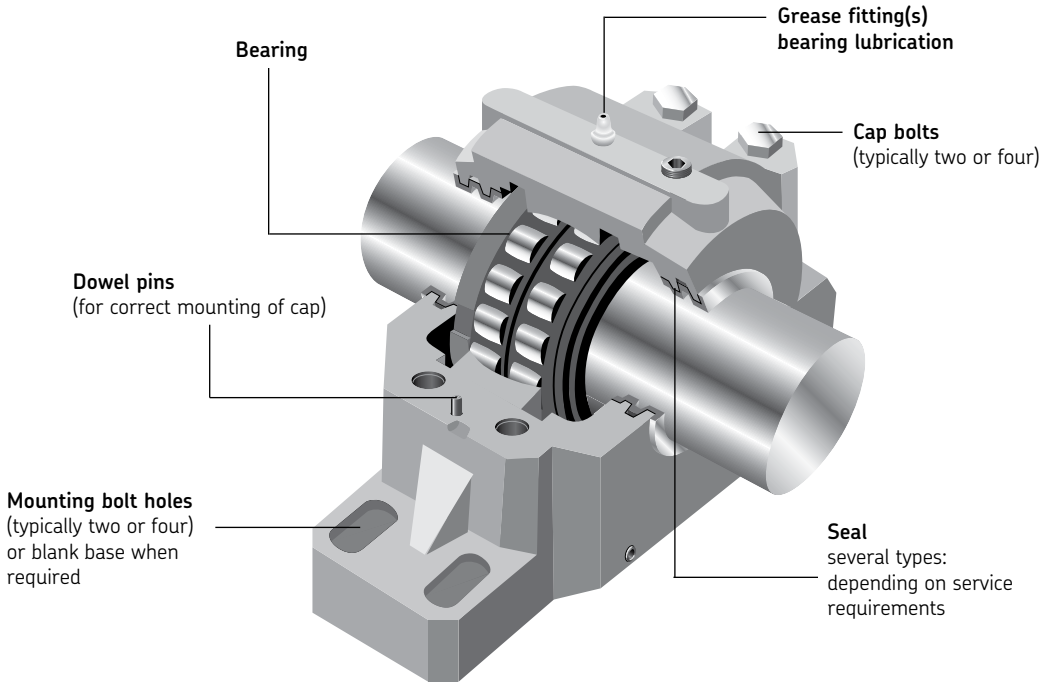
SAF, the most popular split pillow block, is manufactured in cast-iron, cast-steel, or ductile iron. It features a combination of five bearing types, four sealing options and two mounting methods, enabling the SAF to be optimized for a wide variety of applications.

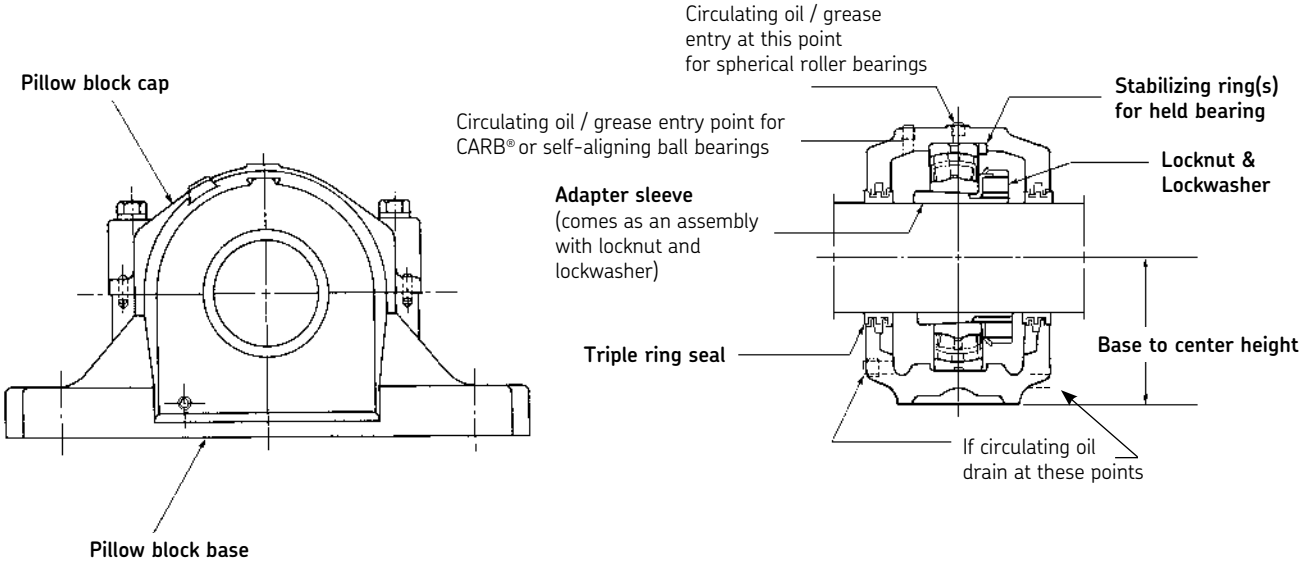
The SAW accommodates the higher capacity series 23200 bearings, or provides greater thermal expansion of the shaft when the 22200 bearing is used. It is dimensionally interchangeable with SAF. Although the bolt hole spacings and center heights are the same, the pillow block is about one-inch wider.

The SDAF style is used for applications that involve heavy or shock loads. SDAF is used extensively in steel mills, mineral processing, and other environments using heavy duty equipment.

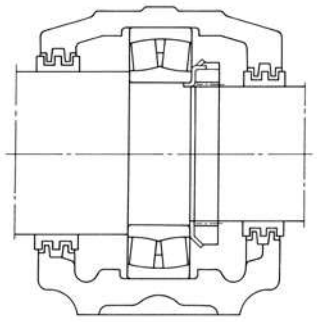
SKF split pillow blocks offer optional customized features, such as special bearings to meet unusual clearance and/or tolerance requirements; machined base ends that provide flat surface for jacking screws; holes for attachment of various condition monitoring devices (thermocouples and vibration detection equipment); and special seals for use with circulating oil lubrication and high-speed operation.

Correct names for pillow block parts

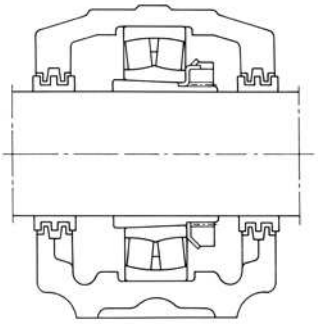




Introduction



Cylindrical mounting



Adapter mounting

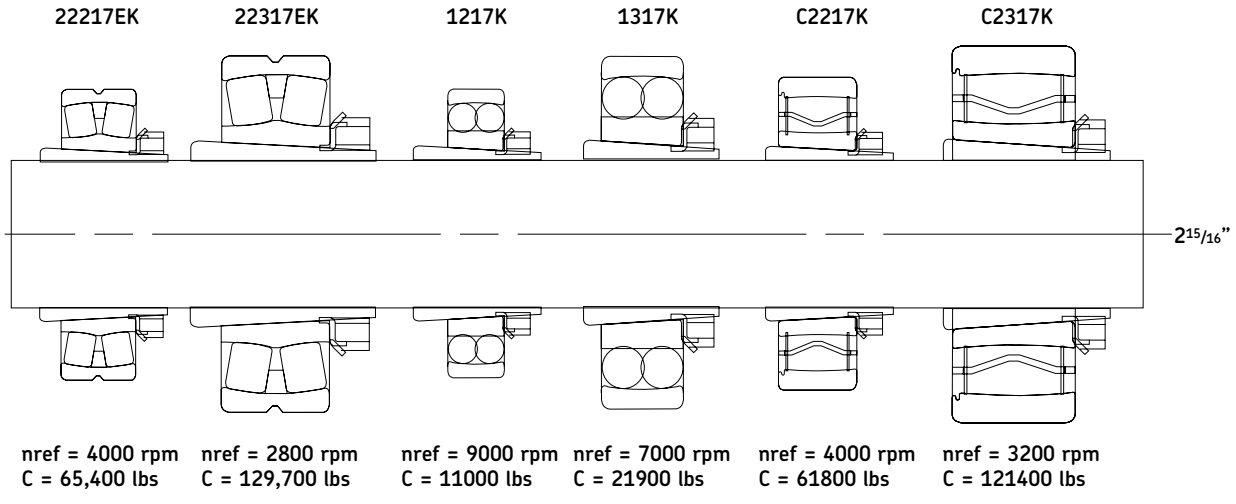
Cylindrical mounting

Cylindrical mounting involves mounting a straight bore bearing to a cylindrical shaft using an interference fit. This mounting method is preferred if precise location on the shaft is required. It is also better suited for high speed applications. In cylindrical mounting, the shaft must have precision tolerances at the bearing seat and machined threads for the locknut. Heating of the inner ring is usually necessary for mounting.

Adapter mounting

In adapter mounting a tapered bore bearing is mounted to a cylindrical shaft through the use of a tapered adapter sleeve. Adapter mounting is considered the general purpose mounting method and most applications of split pillow blocks use this method of attaching the bearing to the shaft. The shaft seatings do not need to be machined to the precision tolerances necessary for cylindrical mounting and the mounting method does not require heating the bearing. Additionally, dismounting is considerably easier with a tapered adapter sleeve. For these reasons the total costs associated with adapter mounting are less than for cylindrical mounting.

Multiple bearing types and series accommodate a variety of applications



Standard split pillow block assortment

SAF

The cast-iron SAF split pillow blocks accommodate self-aligning ball bearings or spherical and toroidal (CARB®) roller bearings and are suitable for adapter or cylindrical mounting to a shaft. SAF housings are available for shaft sizes ranging from $1\,3/16$" to $10\,1/2$" and offer a choice of two-or four-bolt base mounting. Their design accommodates grease or oil lubrication. LER/LOR triple ring seals are supplied as standard but SAF housings also accommodate a variety of optional seals such as contact seals, taconite seals, and end plugs. The standard housing material is cast-iron. Dimensional tables begin on page 366.



SAFS

The SAFS split pillow blocks are cast-steel versions of the SAF block described above. The cast steel material offers greater strength and shock resistance for extra heavy-duty applications. SAFS blocks are used with cylindrical or adapter mounted spherical roller bearings. Shaft sizes range from $2\,7/16$" to $10\,1/2$". They can be supplied in two-or four-bolt base mounting arrangements. The SAFS pillow blocks can be grease or oil lubricated and come standard with LER/LOR triple ring seals. Contact seals, taconite seals, and end plugs are also available. SAFS housings have the same basic mounting dimensions as SAF housings but differ in some basic dimensions. SAF dimensional tables begin on page 366.



SDAF

The SDAF block is designed for applications where heavy thrust loads and shock require a housing of exceptionally sturdy construction. The four-bolt cap and four-bolt base of the heavy-duty SDAF are of unusually rugged proportions adequate to resist shock and heavy loading in any direction. The caps of these large housings are supplied with tapped holes for lifting eyes. SDAF housings accommodate several series of spherical roller bearings, cylindrical or adapter mounted. Shaft sizes range from $3\,15/16$" to $9\,9/16$". Triple ring seals are standard; but optional taconite seals and end plugs are available. SDAF housings can be grease or oil lubricated. Dimensional tables begin on page 416.



Product descriptions

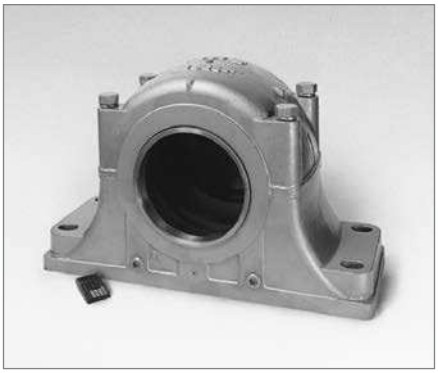
Special application solutions



SAW

SAW split pillow blocks are designed to accommodate the higher capacity 23200 series spherical roller bearings. They can also be used with 22200 series bearings to allow for greater axial travel or thermal shaft expansion. SAW blocks have the same basic mounting dimensions as their SAF counterparts but are about one-inch wider to accommodate the wider bearing.

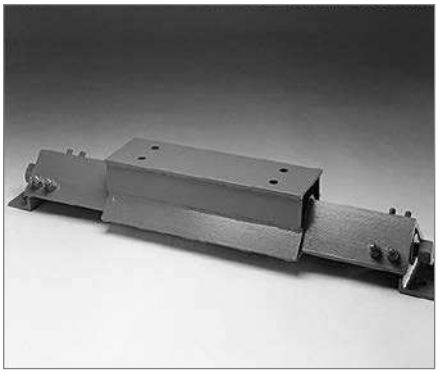
Shaft sizes range from $3^{7}/_{16}$" to $7^{15}/_{16}$" in adapter mounting. SAW blocks are available in four-bolt base only and are suitable for grease or oil lubrication. LER/LOR triple ring seals are standard but, as with the SAF, other sealing options are available. Product nomenclature is on page 403 and dimensional tables begin on page 404.



Extended range

The extended range split pillow blocks provide an extremely rugged housing style of exceptionally sturdy construction for shaft sizes ranging from 9" to 20" and higher. These blocks are made-to-order and can be supplied with a variety of customized features to suit the largest and most demanding applications. Customized features can include special seals and grease shrouds, special bearings and tolerances, specific bolt hole patterns and machinings for attachment of auxiliary equipment such as temperature and vibration detectors.

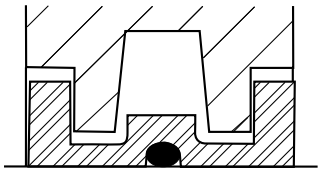
The blocks can accommodate several series of high capacity spherical roller bearings in either cylindrical or adapter mounted arrangements. As with other SKF split pillow block housings, the extended range is suitable for grease or oil lubrication and has a variety of sealing options. Product nomenclature is on page 424 and dimensional tables begin on page 428.



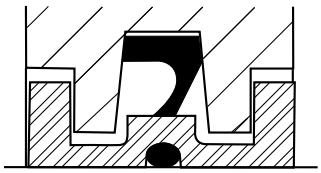
TFT

TFT top mount take-up frames are designed for use with SAF split pillow blocks. As with the TY-RPA assemblies, TFT assemblies are used primarily for belt tensioning in conveyor applications. A SAF block mounts directly to the top of the TFT frame to complete the assembly. TFT frames are available in travel lengths from 12" to 48" and accommodate SAF blocks in shaft sizes from $1^{7}/_{16}$" to $4^{15}/_{16}$".

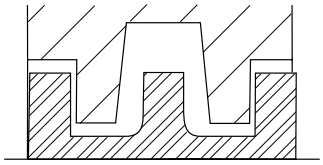
Standard seals for split pillow blocks



PosiTrac seal



PosiTrac Plus seal



LER seal

PosiTrac™ LOR seal

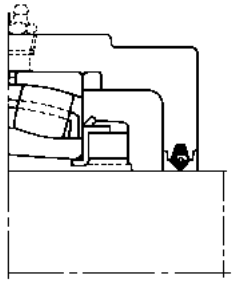
- Standard seal above 2 1/4" (see seal table for specific sizes)
- O-ring in bore to promote spinning with the shaft and prevents contaminate migration between seal and shaft
- Close running tolerance to housing surface
- Provides grease or oil retention
- Aluminum material for spark resistance
- Easily upgradable to PosiTrac™ Plus

PosiTrac Plus™ seal

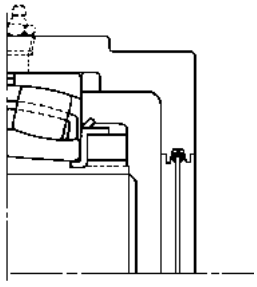
- Combination of PosiTrac with nitrile rubber contact element
- Contact element protected by ring and housing providing the maximum protection to the critical sealing element
- Mounts flush in the housing to maintain the overall housing width
- Positive contact even under misalignment
- Easy to install
- Can be used for purge and non-purge systems
- For use in dirty, dusty and wet environments

Triple ring LER seal

- Standard seal on split pillow blocks below 2 1/4"
- One-piece rotating labyrinth seal
- Close running tolerance between shaft and housing surfaces
- Provides protection from contaminants
- Provides grease or oil retention
- Aluminum material for spark resistance



Contact seal



End plug

Contact seal

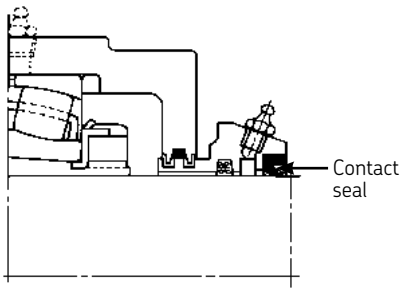
- One-piece nitrile rubber seal
- Positive contact even under misaligned conditions
- Specially molded to fit into the center of the housing labyrinth
- For use in dirty, dusty and wet environments
- Available for shaft below 2 1/4"

End plug

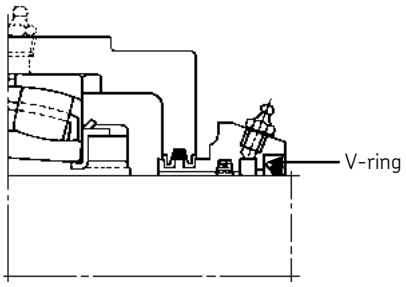
- Extruded nitrile rubber strip fabricated over metal plate
- Designed to give positive fit in center housing labyrinth
- Provides a perfect closure

Seals & speed limits

Standard seals for split pillow blocks



Taconite TER seal



Taconite TER V-ring seal

Taconite TER seal

- Auxiliary seal features three seals in one
  1) Outboard shaft-riding split-contact seal
  2) Grease cavity with fitting to flush contaminants
  3) Felt inboard seal
- Designed to operate in dusty, dirty, abrasive and wet environments
- Ideal for use in mines, quarries, foundries and other tough applications
- Provides for effective lubricant retention for more efficient bearing operation
- Grease purges through the outboard seal during regreasing of the Taconite seal, to expel contaminants

Taconite TER V-ring seal

- Same features as Taconite TER seal except that the outboard seal is a "V" ring face riding seal for minimum shaft wear and accommodates rougher shaft surfaces

PosiTrac™ seals for split pillow blocks

PosiTrac™ from SKF is the next generation of the popular SKF LER seal. The lightweight seal is supplied with new SKF SAF-design split pillow blocks. It can also be used as a replacement seal for existing SKF LER and A9508 ring seals.

Two-way sealing protection

PosiTrac's inboard O-ring sets it apart from conventional pillow block seals. The O-ring, made of nitrile rubber, provides two-way sealing protection: it blocks contaminants from migrating along the shaft into the housing, while preventing lubricant leakage in the opposite direction.

During operation, PosiTrac's O-ring makes complete contact with the spinning shaft. This allows the entire seal to rotate at shaft speed – and enhances overall sealing effectiveness. The result is a "Posi"-tive "Trac"tive effect.

Quick and easy seal retrofits

Replacing existing SKF LER or A9508 seals with the new PosiTrac seal is a simple maintenance task. Because PosiTrac is identical in width to the LER seals it replaces, it retrofits into existing SKF pillow blocks without special housing, sealing or machining requirements.

Once the bearing and housing have been disassembled, actual seal installation can be completed quickly. Simply remove the old seal by hand and slide PosiTrac into position. No special tools are required.

Although you'll experience slight resistance when installing PosiTrac seals, this requires only slight hand pressure to overcome. You can also lubricate the O-ring to ease assembly.

Excellent misalignment and temperature capabilities

- A misalignment capability equivalent to that of existing SKF LER seal
- A broad temperature operating range from -30° to 230° F
- Seal speed ratings equal to bearing speed ratings

PosiTrac Plus seal from SKF for harsh-environment service

Mining, construction, conveyors and related harsh-environment applications challenge bearing reliability with constant exposure to dirt, sand and other contaminants. Especially demanding environments call for a special seal – PosiTrac Plus.

PosiTrac Plus combines the advanced features of the PosiTrac seal from SKF with an additional sealing component – a nitrile rubber contact element that rides on the outer diameter of the seal's aluminum ring. The ring seal provides a wearing surface, and virtually eliminates any possibilty of shaft wear. This contact seal is completely encased within the housing and ring seal labyrinth, protecting it from large particles of contamination. Together, this system provides superior sealing in harsh environments.

PosiTrac Plus replaces the SKF B9784 contact seal. The two major PosiTrac Plus components are packaged separately for easier inventory control.

Flush-mounted, easy-to-install design

Some heavy-duty seals for split pillow blocks have a contact element that extends from the housing side face, requiring additional axial space – but not PosiTrac Plus.

PosiTrac Plus mounts flush with the housing and has no protruding parts that might snag on belts or other machinery.

PosiTrac Plus is easy to install. There's no need to carefully align the seal with the housing to ensure proper sealing. PosiTrac Plus drops straight into an ideal sealing position every time.

Adaptable for purge and non-purge operations

Grease purging is essential in some applications (high-contamination mining operations, for example), but unacceptable in others (papermaking, meat and fruit processing). PosiTrac adapts easily to either requirement. Simply reverse the seal orientation in the housing to convert PosiTrac Plus from purgeable to non-purgeable operation.

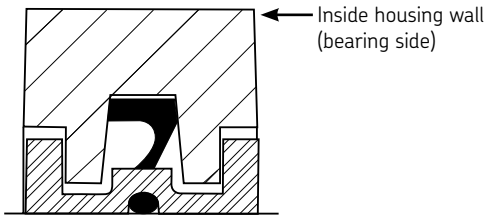
Packaged for convenient upgrades

Users of PosiTrac seals can upgrade to PosiTrac Plus at any time. To upgrade, order the PosiTrac Plus contact element that corresponds with the PosiTrac seal currently in use. The contact element slips easily over the aluminum ring's outer diameter, converting a PosiTrac seal into a PosiTrac Plus for maximum sealing protection.

How to order PosiTrac Plus from SKF

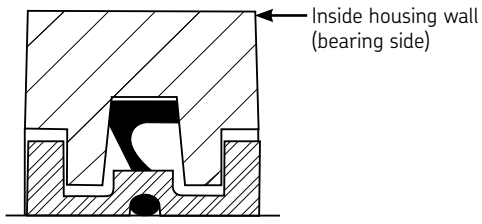
The two PosiTrac Plus components – rubber contact element and aluminum ring with inboard O-ring – are packaged separately and have different designations. The contact element designation is B-10724-###; the designation for the aluminum ring is LOR-XXX. See the accompanying tables for size ranges.

Easy installation for both purgeable and non-purgeable systems



Grease purgeable set-up

Use purgeable for maximum contamination exclusion



Non-grease purgeable set-up

Use non-purgeable for maximum grease retention

Seals & speed limits

Seal selection for SAF and SAFS housings

	Labyrinth	PosiTrac™	PosiTrac™ Plus	Contact	SKF Taconite		End plug
Basic part number	**LER**	**LOR PosiTrac™**	**LOR & B-10724**	**B-9784**	**TER**	**TER V**	**EPR**
Housing range	SAF 308-311 SAF 507-513 SAF 609-611	SAF 024-056 KA SAF 213-244 SAF 312-340 SAF 515-544 SAF 613-640	SAF 024-056 KA SAF 213-244 SAF 312-340 SAF 515-544 SAF 613-640	SAF 308-311 SAF 509-513 SAF 609-611	SAF 024-056 KA SAF 213-244 SAF 308-340 SAF 507-544 SAF 609-640	SAF 024-056 KA SAF 213-244 SAF 308-340 SAF 507-544 SAF 609-640	SAF 024-056 KA SAF 213-244 SAF 308-340 SAF 507-544 SAF 609-640
Shaft diameters	$1^1/_8$" - $2^5/_8$"	$2^1/_8$" - $10^1/_2$"	$2^1/_8$" - $10^1/_2$"	$1^1/_8$" - $2^5/_8$"	$1^1/_8$" - $10^1/_2$"	$1^1/_8$" - $10^1/_2$"	$1^1/_8$" - $10^1/_2$"
Material composition	aluminum	aluminum and nitrile rubber	aluminum and nitrile rubber	nitrile rubber	steel, felt and nitrile rubber	steel, felt and nitrile rubber	steel and nitrile rubber
Temperature[1]	300° F max	220° F max	220° F max	220° F max	220° F max	220° F max	220° F max
Speed [2]	same as bearing	same as bearing	limited	limited	limited	limited	–
Misalignment [3]	some	some	limited	limited	extremely limited	extremely limited	–
Grease purgeable	yes	yes	yes	yes	yes	yes	–
Oil leak prevention	minimal	some	yes	yes	yes (most of any listed)	yes	yes
Friction	none present	none present	some	some	large amount	large amount	–
Dusty / dirty	some	some	yes	yes	yes, extreme conditions	yes, extreme conditions	yes
Wet / moisture	no	no	yes	yes	yes	yes	yes
High pressure wash	no	no	non direct	non direct	yes	yes	yes
Chemical	some	some	limited	limited	limited	limited	limited
Availability	common sizes stocked	common sizes stocked	common sizes stocked	common sizes stocked	common sizes stocked	made to order	common sizes stocked
Lead time for made to order [3]	6 – 8 weeks	6 – 8 weeks	6 – 8 weeks	6 – 8 weeks	6 – 8 weeks	6 – 8 weeks	6 – 8 weeks

1 A special lubrication may be required to accommodate 400° F. Consult SKF or your lubrication supplier.
2 Consult SKF Applications Engineering for specific speed ratings.
3 A self aligning bearing in a split housing assembly will not realize the full bearing misalignment capability; misalignment is limited by seal type.

Seal chart for SKF SAF, SAFS and SAW split pillow block housings

	S-1	S-1	S-1	S-2	S-2	S-3	S-3	Triple ring seal[1]		Contact seals		Taconite seals[5]			End plugs
Shaft diameter	000 Series	500 Series	600 Series	200 Series	300 Series	200 Series	300 Series	Ring seal part number	O-Ring designation for LOR[2]	Contact seal P/N[3]	Speed limit rpm[4]	Contact seal type	"V"-Ring seal type	Speed limit rpm[4]	
1-1/8"		507						LER-13	–	–	–	TER-13	TER-13 V	2250	EPR-2
1-3/16"		507*						LER-14	–	–	–	TER-14	TER-14 V	2250	EPR-2
1-1/4"		507						LER-15	–	–	–	TER-15	TER-15 V	2250	EPR-2
1-3/8"		509	609					LER-16	–	–	–	TER-16	TER-16 V	2175	EPR-3
1-7/16"		509*	609*				308*	LER-17	–	B-9784-12	3800	TER-17	TER-17 V	2175	EPR-3
1-1/2"		509	609					LER-18	–	–	–	TER-18	TER-18 V	2175	EPR-3
1-5/8"		510	610					LER-19	–	–	–	TER-19	TER-19 V	1800	EPR-4
1-11/16"		510*	610*				309*	LER-20	–	B-9784-15	3400	TER-20	TER-20 V	1800	EPR-4
1-3/4"		510	610					LER-21	–	–	–	TER-21	TER-21 V	1800	EPR-4
1-13/16"		511	611					LER-22	–	–	–	TER-22	TER-22 V	1575	EPR-5
1-7/8"		511	611				310*	LER-23	–	–	–	TER-23	TER-23 V	1575	EPR-5
1-15/16"		511*	611*		308*			LER-24	–	B-9784-19	2950	TER-24	TER-24 V	1575	EPR-5
2"		511	611					LER-25	–	–	–	TER-25	TER-25 V	1575	EPR-5
2"		513						LER-26	–	B-9784-21	2950	TER-26	TER-26 V	1450	EPR-6
2-1/16"		513					311*	LER-27	–	–	–	TER-27	TER-27 V	1450	EPR-6
2-1/8"		513			309*			LER-28	–	–	–	TER-28	TER-28 V	1450	EPR-6
2-1/8"			613				312	LOR-31	AS-568-034	B-10724-32	2600	TER-31	TER-31 V	1400	EPR-7
2-3/16"		513*						LER-29	–	B-9784-24	2600	TER-29	TER-29 V	1400	EPR-6
2-3/16"			613*				312	LOR-32	AS-568-035	B-10724-32	2600	TER-32	TER-32 V	1400	EPR-7
2-1/4"		513						LER-30	–	–	–	TER-30	TER-30 V	1400	EPR-6
2-1/4"			613				312*	LOR-33	AS-568-035	B-10724-32	2600	TER-33	TER-33 V	1075	EPR-7
2-5/16"				210	310			LER-34	–	–	–	TER-34	TER-34 V	1300	–
2-3/8"				210	310*			LER-35	–	–	–	TER-35	TER-35 V	1300	–
2-3/8"		515	615			213	313	LOR-36	AS-568-036	B-10724-37	2350	TER-36	TER-36 V	1250	EPR-7
2-7/16"		515*	615*			213*	313*	LOR-37	AS-568-037	B-10724-37	2350	TER-37	TER-37 V	1250	EPR-7
2-1/2"								LER-39	–	B-9784-37	–	TER-39	TER-39 V	1250	–
2-1/2"		515	615			213	313	LOR-38	AS-568-037	B-10724-37	2350	TER-38	TER-38 V	1250	EPR-7
2-9/16"					311*			LER-40	–	B-9784-35	–	TER-40	TER-40 V	1200	–
2-9/16"		516	616				314	LOR-42	AS-568-038	B-10724-44	2150	TER-42	TER-42 V	1150	EPR-8
2-5/8"					311			LER-41	–	–	–	TER-41	TER-41 V	1150	–
2-5/8"		516	616				314*	LOR-43	AS-568-038	B-10724-44	2150	TER-43	TER-43 V	1150	EPR-8
2-11/16"		516*	616*				314	LOR-44	AS-568-039	B-10724-44	2150	TER-44	TER-44 V	1150	EPR-8
2-3/4"		516	616				314	LOR-45	AS-568-039	B-10724-44	2150	TER-45	TER-45 V	1150	EPR-8
2-13/16"			617					LOR-182	AS-568-149	B-10724-184	1950	TER-182	TER-182 V	1050	EPR-10
2-13/16"					312	215*	315*	LOR-46	AS-568-040	B-10724-44	2150	TER-46	TER-46 V	900	EPR-8
2-13/16"		517		213	313	216		LOR-51	AS-568-040	B-10724-53	1950	TER-51	TER-51 V	1050	EPR-9
2-3/16"							316	LOR-57	AS-568-150	B-10724-184	1900	TER-57	TER-57 V	850	EPR-10
2-7/8"			617					LOR-183	AS-568-150	B-10724-184	1950	TER-183	TER-183 V	1050	EPR-10
2-7/8"					312*	215	315	LOR-47	AS-568-040	B-10724-44	2150	TER-47	TER-47 V	1075	EPR-8
2-7/8"		517		213	313	216		LOR-52	AS-568-040	B-10724-53	1950	TER-52	TER-52 V	1050	EPR-9

* = Standard shaft diameter, all others are optional shaft diameters
1 = Speed rating same as bearing speed rating; see bearing tables
2 = O-ring supplied with LOR is for replacement only, AS-568-### are industry standard O-rings available at most SKF authorized distributors
3 = B-10724-###'s are the SKF PosiTrac Plus seal and require the LOR
4 = For stepped shaft housing designs the largest shaft diameter is the limiting speed limit
5 = Most taconite seals are made to order; contact SKF for availability, all "V"-ring versions are made to order

Seals & speed limits

Seal chart for SKF SAF, SAFS and SAW split pillow block housings

	S-1	S-1	S-1	S-2	S-2	S-3	S-3	Triple ring seal[1]		Contact seals		Taconite seals[5]			End plugs
Shaft diameter	000 Series	500 Series	600 Series	200 Series	300 Series	200 Series	300 Series	Ring seal part number	O-Ring designation for LOR[2]	Contact seal P/N[3]	Speed limit rpm[4]	Contact seal type	"V"-Ring seal type	Speed limit rpm[4]	
2-7/8"							316	LOR-58	AS-568-150	B-10724-184	1900	TER-58	TER-58 V	850	EPR-10
2-15/16"		617*						LOR-184	AS-568-151	B-10724-184	1950	TER-184	TER-184 V	1050	EPR-10
2-15/16"		517*	213	313	216			LOR-53	AS-568-041	B-10724-53	1950	TER-53	TER-53 V	1050	EPR-9
2-15/16"							316	LOR-59	AS-568-151	B-10724-184	1900	TER-59	TER-59 V	850	EPR-10
3"		617						LOR-185	AS-568-151	B-10724-184	1950	TER-185	TER-185 V	1050	EPR-10
3"		517		213	313	216*		LOR-54	AS-568-041	B-10724-53	1950	TER-54	TER-54 V	850	EPR-9
3"						316*		LOR-60	AS-568-151	B-10724-184	1900	TER-60	TER-60 V	850	EPR-10
3-1/16"		518	618				317	LOR-186	38309-186	B-10724-188	1800	TER-186	TER-186 V	950	EPR-11
3-1/16"				213*	313*	216		LOR-55	38309-55	B-10724-53	1950	TER-55	TER-55 V	1000	EPR-9
3-1/16"						217		LOR-61	38309-61	B-10724-64	1450	TER-61	TER-61 V	775	EPR-28
3-1/8"		518	618				317	LOR-187	AS-568-152	B-10724-188	1800	TER-187	TER-187 V	950	EPR-11
3-1/8"				213	313	216		LOR-56	AS-568-042	B-10724-53	1950	TER-56	TER-56 V	1000	EPR-28
3-1/8"					314	217		LOR-62	AS-568-042	B-10724-64	1450	TER-62	TER-62 V	775	EPR-28
3-3/16"		518*	618*				317*	LOR-188	AS-568-152	B-10724-188	1800	TER-188	TER-188 V	950	EPR-11
3-3/16"					314	217*		LOR-63	AS-568-042	B-10724-64	1450	TER-63	TER-63 V	775	EPR-28
3-1/4"		518	618				317	LOR-189	AS-568-152	B-10724-188	1800	TER-189	TER-189 V	950	EPR-11
3-1/4"					314*	217		LOR-64	AS-568-042	B-10724-64	1450	TER-64	TER-64 V	925	EPR-28
3-5/16"		520	620			220		LOR-100	38309-100	B-10724-102	1650	TER-100	TER-100 V	900	EPR-12
3-5/16"						217		LOR-65	38309-65	B-10724-64	1450	TER-65	TER-65 V	775	EPR-28
3-5/16"						218	318	LOR-190	38309-190	B-10724-188	1800	TER-190	TER-190 V	750	EPR-11
3-3/8"				215/216	315			LOR-78	AS-568-043	B-10724-79	1650	TER-78	TER-78 V	900	–
3-3/8"						217		LOR-66	AS-568-043	B-10724-64	1450	TER-66	TER-66 V	775	EPR-28
3-3/8"		520	620			220		LOR-101	AS-568-153	B-10724-102	1650	TER-101	TER-101 V	900	EPR-12
3-3/8"						218*	318*	LOR-191	AS-568-153	B-10724-188	1800	TER-191	TER-191 V	750	EPR-11
3-7/16"				215*/216		315*		LOR-79	AS-568-043	B-10724-79	1450	TER-79	TER-79 V	900	–
3-7/16"		520*	620*			220		LOR-102	AS-568-153	B-10724-102	1650	TER-102	TER-102 V	900	EPR-12
3-1/2"				215/216	315			LOR-80	AS-568-043	B-10724-79	1450	TER-80	TER-80 V	900	–
3-1/2"		520	620			220		LOR-103	AS-568-153	B-10724-102	1650	TER-103	TER-103 V	900	EPR-12
3-9/16"				215/216	315			LOR-81	38309-81	B-10724-79	1450	TER-81	TER-81 V	900	–
3-9/16"					316			LOR-83	38309-83	B-10724-106	1275	TER-83	TER-83 V	850	EPR-12
3-5/8"				215/216*		315		LOR-82	AS-568-044	B-10724-79	1450	TER-82	TER-82 V	850	–
3-5/8"					316*			LOR-84	AS-568-154	B-10724-106	1275	TER-84	TER-84 V	850	EPR-12
3-11/16"					316			LOR-85	AS-568-154	B-10724-106	1275	TER-85	TER-85 V	850	EPR-12
3-11/16"						320		LOR-104	AS-568-154	B-10724-106	1275	TER-104	TER-104 V	675	EPR-12
3-3/4"					316			LOR-86	AS-568-154	B-10724-106	1275	TER-86	TER-86 V	850	EPR-12
3-3/4"							320	LOR-105	AS-568-154	B-10724-106	1275	TER-105	TER-105 V	675	EPR-12
3-13/16"					316			LOR-87	38309-87	B-10724-106	1275	TER-87	TER-87 V	850	EPR-12
3-13/16"					220*	320*		LOR-106	38309-106	B-10724-106	1275	TER-106	TER-106 V	675	EPR-12
3-13/16"	522	622		317				LOR-107	38309-107	B-10724-109	1450	TER-107	TER-107 V	775	EPR-13
3-7/8"		522	622		317			LOR-108	AS-568-155	B-10724-109	1450	TER-108	TER-108 V	775	EPR-13

* = Standard shaft diameter, all others are optional shaft diameters
1 = Speed rating same as bearing speed rating; see bearing tables
2 = O-ring supplied with LOR is for replacement only, AS-568-### are industry standard O-rings available at most SKF authorized distributors
3 = B-10724-###'s are the SKF PosiTrac Plus seal and require the LOR
4 = For stepped shaft housing designs, the largest shaft diameter is the limiting speed limit
5 = Most taconite seals are made to order; contact SKF for availability, all "V"-ring versions are made to order

Seal chart for SKF SAF, SAFS and SAW split pillow block housings

	S-1	S-1	S-1	S-2	S-2	S-3	S-3	Triple ring seal[1]		Contact seals		Taconite seals[5]			End plugs
Shaft diameter	000 Series	500 Series	600 Series	200 Series	300 Series	200 Series	300 Series	Ring seal part number	O-Ring designation for LOR[2]	Contact seal P/N[3]	Speed limit rpm[4]	Contact seal type	"V"-Ring seal type	Speed limit rpm[4]	
3-7/8"				217				LOR-88	AS-568-045	B-10724-89	1450	TER-88	TER-88 V	775	–
3-15/16"		522*	622*		317*			LOR-109	AS-568-155	B-10724-109	1450	TER-109	TER-109 V	775	EPR-13
3-15/16"				217*				LOR-89	AS-568-045	B-10724-89	1450	TER-89	TER-89 V	775	–
4"		522	622		317			LOR-110	AS-568-155	B-10724-109	1450	TER-110	TER-110 V	775	EPR-13
4"				217				LOR-90	AS-568-045	B-10724-89	1450	TER-90	TER-90 V	775	–
4-1/16"	024	524	624	218	318	222	322	LOR-111	38309-111	B-10724-113	1350	TER-111	TER-111 V	750	EPR-14
4-1/8"	024	524	624	218*	318*	222	322	LOR-112	AS-568-156	B-10724-113	1350	TER-112	TER-112 V	750	EPR-14
4-3/16"	024*	524*	624*	218	318	222*	322*	LOR-113	AS-568-156	B-10724-113	1350	TER-113	TER-113 V	725	EPR-14
4-1/4"	024	524	624	218	318	222	322	LOR-114	AS-568-156	B-10724-113	1350	TER-114	TER-114 V	725	EPR-14
4-5/16"	026	526	626	220	320	224	324	LOR-115	38309-115	B-10724-117	1300	TER-115	TER-115 V	700	EPR-15
4-3/8"	026	526	626	220	320	224	324	LOR-116	AS-568-157	B-10724-117	1300	TER-116	TER-116 V	700	EPR-15
4-7/16"	026*	526*	626*	220	320	224	324	LOR-117	AS-568-157	B-10724-117	1300	TER-117	TER-117 V	700	EPR-15
4-1/2"	026	526	626	220*	320*	224	324	LOR-118	AS-568-157	B-10724-117	1300	TER-118	TER-118 V	675	EPR-15
4-9/16"				220	320	224*	324*	LOR-119	38309-119	B-10724-117	1300	TER-119	TER-119 V	675	EPR-15
4-13/16"	028	528	628	222	322	226	326	LOR-120	38309-120	B-10724-122	1150	TER-120	TER-120 V	625	EPR-27
4-7/8"	028	528	628	222*	322*	226	326	LOR-121	AS-568-159	B-10724-122	1150	TER-121	TER-121 V	625	EPR-27
4-15/16"	028*	528*	628*	222	322	226*	326*	LOR-122	AS-568-159	B-10724-122	1150	TER-122	TER-122 V	625	EPR-27
5-1/8"	030	530	630	224	324	228	328	LOR-124	AS-568-160	B-10724-125	1075	TER-124	TER-124 V	590	EPR-16
5-3/16"	030*	530*	630*	224	324	228	328	LOR-125	AS-568-160	B-10724-125	1075	TER-125	TER-125 V	590	EPR-16
5-1/4"	030	530	630	224	324	228	328	LOR-126	AS-568-160	B-10724-125	1075	TER-126	TER-126 V	575	EPR-16
5-5/16"	030			224*	324*	228*	328*	LOR-127	38309-127	B-10724-125	1075	TER-127	TER-127 V	575	EPR-16
5-3/8"	30			224	324	228	328	LOR-128	AS-568-161	B-10724-125	1075	TER-128	TER-128 V	575	EPR-16
5-3/8"	032	532	632					LOR-129	AS-568-253	B-10724-130	1050	TER-129	TER-129 V	560	EPR-16
5-7/16"	032*	532*	632*					LOR-130	AS-568-254	B-10724-130	1050	TER-130	TER-130 V	560	EPR-16
5-1/2"	032	532	632					LOR-131	AS-568-254	B-10724-130	1050	TER-131	TER-131 V	560	EPR-16
5-5/8"				226	326	230	330	LOR-132	AS-568-162	B-10724-134	850	TER-132	TER-132 V	460	EPR-17
5-11/16"				226	326	230	330	LOR-133	AS-568-162	B-10724-134	850	TER-133	TER-133 V	460	EPR-17
5-3/4"				226	326	230*	330*	LOR-134	AS-568-162	B-10724-134	850	TER-134	TER-134 V	460	EPR-17
5-13/16"	034	534	634			232	332	LOR-138	AS-568-257	B-10724-140	950	TER-138	TER-138 V	520	EPR-18
5-13/16"				226	326	230	330	LOR-135	38309-135	B-10724-134	850	TER-135	TER-135 V	520	EPR-17
5-7/8"	034	534	634			232	332	LOR-139	AS-568-257	B-10724-140	950	TER-139	TER-139 V	520	EPR-18
5-7/8"				226*	326*	230	330	LOR-136	AS-568-163	B-10724-134	850	TER-136	TER-136 V	520	EPR-17
5-15/16"	034*	534*	634*			232	332	LOR-140	AS-568-258	B-10724-140	950	TER-140	TER-140 V	520	EPR-18
5-15/16"				226	326	230	330	LOR-137	AS-568-163	B-10724-134	850	TER-137	TER-137 V	520	EPR-17
6"	034	534	634			232	332	LOR-141	AS-568-258	B-10724-140	950	TER-141	TER-141 V	500	EPR-18
6-1/16"						232*	332*	LOR-142	38309-142	B-10724-140	950	TER-142	TER-142 V	500	EPR-18
6-3/16"				228	328			LOR-143	AS-568-164	B-10724-144	925	TER-143	TER-143 V	490	–
6-1/4"				228*	328*			LOR-144	AS-568-164	B-10724-144	925	TER-144	TER-144 V	490	–
6-5/16"				228	328			LOR-145	38309-145	B-10724-144	925	TER-145	TER-145 V	490	–
6-5/16"	036	536				234	334	LOR-146	38309-146	B-10724-148	875	TER-146	TER-146 V	460	EPR-19

* = Standard shaft diameter, all others are optional shaft diameters
1 = Speed rating same as bearing speed rating; see bearing tables
2 = O-ring supplied with LOR is for replacement only, AS-568-### are industry standard O-rings available at most SKF authorized distributors
3 = B-10724-###'s are the SKF PosiTrac Plus seal and require the LOR
4 = For stepped shaft housing designs, the largest shaft diameter is the limiting speed limit
5 = Most taconite seals are made to order; contact SKF for availability, all "V"-ring versions are made to order

Seals & speed limits

Seal chart for SKF SAF, SAFS and SAW split pillow block housings

	S-1	S-1	S-1	S-2	S-2	S-3	S-3	Triple ring seal[1]		Contact seals		Taconite seals[5]			End plugs
Shaft diameter	000 Series	500 Series	600 Series	200 Series	300 Series	200 Series	300 Series	Ring seal part number	O-Ring designation for LOR[2]	Contact seal P/N[3]	Speed limit rpm[4]	Contact seal type	"V"-Ring seal type	Speed limit rpm[4]	
6-3/8"	036	536				234	334	LOR-147	AS-568-260	B-10724-148	875	TER-147	TER-147 V	460	EPR-19
6-7/16"	036*	536*				234	334*	LOR-148	AS-568-260	B-10724-148	875	TER-148	TER-148 V	460	EPR-19
6-1/2"	036	536				234	334	LOR-149	AS-568-260	B-10724-148	875	TER-149	TER-149 V	460	EPR-19
6-9/16"				230	330			LOR-150	38309-150	B-10724-151	850	TER-150	TER-150 V	460	–
6-5/8"				230*	330*			LOR-151	AS-568-166	B-10724-151	850	TER-151	TER-151 V	460	–
6-11/16"				230	330			LOR-152	AS-568-166	B-10724-151	850	TER-152	TER-152 V	460	–
6-13/16"	038	538	638	232	332	236		LOR-153	38309-153	B-10724-155	825	TER-153	TER-153 V	440	EPR-20
6-7/8"	038	538	638	232	332	236*		LOR-154	AS-568-262	B-10724-155	825	TER-154	TER-154 V	440	EPR-20
6-15/16"	038*	538*	638*	232	332	236		LOR-155	AS-568-262	B-10724-155	825	TER-155	TER-155 V	440	EPR-20
7"	038	538	638	232*	332*	236		LOR-156	AS-568-262	B-10724-155	825	TER-156	TER-156 V	440	EPR-20
7-1/16"				232	332	236		LOR-157	38309-157	B-10724-155	825	TER-157	TER-157 V	440	EPR-20
7-1/8"	040	540	640			238	338	LOR-158	AS-568-263	B-10724-159	800	TER-158	TER-158 V	425	EPR-21
7-3/16"	040*	540*	640*			238	338	LOR-159	AS-568-263	B-10724-159	800	TER-159	TER-159 V	425	EPR-21
7-1/4"	040	540	640			238*	338*	LOR-160	AS-568-263	B-10724-159	800	TER-160	TER-160 V	425	EPR-21
7-7/16"				234*	334*	240	340	LOR-161	AS-568-264	B-10724-161	650	TER-161	TER-161 V	410	EPR-22
7-1/2"				234	334	240	340	LOR-162	AS-568-264	B-10724-161	650	TER-162	TER-162 V	410	EPR-22
7-9/16"				234	334	240	340	LOR-163	AS-568-265	B-10724-161	650	TER-163	TER-163 V	410	EPR-22
7-5/8"				234	334	240*	340*	LOR-164	AS-568-265	B-10724-161	650	TER-164	TER-164 V	390	EPR-22
7-13/16"	044	544		236*				LOR-165	AS-568-266	B-10724-167	725	TER-165	TER-165 V	390	EPR-23
7-7/8"	044	544		236				LOR-166	AS-568-266	B-10724-167	725	TER-166	TER-166 V	390	EPR-23
7-15/16"	044*	544*		236				LOR-167	AS-568-266	B-10724-167	725	TER-167	TER-167 V	385	EPR-23
8"	044	544		236				LOR-168	AS-568-266	B-10724-167	725	TER-168	TER-168 V	385	EPR-23
8-1/4"				238	338	244		LOR-169	AS-568-267	B-10724-170	600	TER-169	TER-169 V	365	EPR-24
8-5/16"				238	338	244*		LOR-170	AS-568-268	B-10724-170	600	TER-170	TER-170 V	365	EPR-24
8-3/8"				238*	338*	244		LOR-171	AS-568-268	B-10724-170	600	TER-171	TER-171 V	365	EPR-24
8-7/16"				238	338	244		LOR-172	AS-568-268	B-10724-170	600	TER-172	TER-172 V	365	EPR-24
8-7/16"	048							LOR-550	AS-568-268	B-10724-552	680	TER-550	TER-550 V	360	X-5217-4
8-1/2"				238	338	244		LOR-173	AS-568-268	B-10724-170	600	TER-173	TER-173 V	360	EPR-24
8-1/2"	048							LOR-551	AS-568-268	B-10724-552	680	TER-551	TER-551 V	360	X-5217-4
8-11/16"				240	340			LOR-174	AS-568-269	B-10724-175	650	TER-174	TER-174 V	350	EPR-25
8-3/4"				240*	340*			LOR-175	AS-568-269	B-10724-175	650	TER-175	TER-175 V	350	EPR-25
8-13/16"				240	340			LOR-176	AS-568-270	B-10724-175	650	TER-176	TER-176 V	350	EPR-25
8-7/8"				240	340			LOR-177	AS-568-270	B-10724-175	650	TER-177	TER-177 V	350	EPR-25
8-15/16"	048*							LOR-552	AS-568-270	B-10724-552	640	TER-552	TER-552 V	340	X-5217-4
9"	048							LOR-513	AS-568-270	B-10724-552	640	TER-513	TER-513 V	340	X-5217-4
9-7/16"	052*							LOR-553	AS-568-272	B-10724-178	600	TER-553	TER-553 V	325	X-5217-2
9-1/2"	052			244				LOR-178	AS-568-272	B-10724-178	600	TER-178	TER-178 V	320	X-5217-2
9-9/16"				244*				LOR-179	AS-568-273	B-10724-178	600	TER-179	TER-179 V	315	X-5217-2
9-5/8"				244				LOR-180	AS-568-273	B-10724-178	600	TER-180	TER-180 V	315	X-5217-2
9-11/16"				244				LOR-181	AS-568-273	B-10724-178	600	TER-181	TER-181 V	315	X-5217-2
9-15/16"	056*							LOR-607	AS-568-274	B-10724-607	575	TER-607	TER-607 V	310	X-5217-2
10"	056							LOR-568	AS-568-274	B-10724-607	575	TER-568	TER-568 V	305	X-5217-2
10-7/16"	056*							LOR-606	AS-568-275	B-10724-606	550	TER-606	TER-606 V	295	X-5217-1
10-1/2"	056							LOR-519	AS-568-275	B-10724-606	550	TER-519	TER-519 V	290	X-5217-1

* = Standard shaft diameter, all others are optional shaft diameters
1 = Speed rating same as bearing speed rating; see bearing tables
2 = O-ring supplied with LOR is for replacement only, AS-568-### are industry standard O-rings available at most SKF authorized distributors
3 = B-10724-###'s are the SKF PosiTrac Plus seal and require the LOR
4 = For stepped shaft housing designs, the largest shaft diameter is the limiting speed limit
5 = Most taconite seals are made to order; contact SKF for availability, all "V"-ring versions are made to order

Seal chart for SKF SDAF and SDAFS split pillow block housings

	S-1	S-1	S-2	S-2	S-3	S-3	Triple ring seal[1]		Contact seals		Taconite seals[5]			End plugs
Shaft diameter	500 Series	600 Series	200 Series	300 Series	200 Series	300 Series	Ring seal part number	O-Ring designation for LOR[2]	Contact seal P/N[3]	Speed limit rpm[4]	Contact seal type	"V"-Ring seal type	Speed limit rpm[4]	
2-13/16"			617				LOR-57	AS-568-150	B-10724-184	1950	TER-57	TER-57 V	1050	EPR-10
2-7/8"		617					LOR-58	AS-568-150	B-10724-184	1950	TER-58	TER-58 V	1050	EPR-10
2-15/16"		617*					LOR-59	AS-568-151	B-10724-184	1950	TER-59	TER-59 V	1050	EPR-10
3"		617					LOR-60	AS-568-151	B-10724-184	1950	TER-60	TER-60 V	1050	EPR-10
3-1/16"		618					LER-67	–	– [6]		TER-67	TER-67 V	950	EPR-11
3-1/8"		618					LER-68	–	– [6]		TER-68	TER-68 V	950	EPR-11
3-3/16"		618*				317*	LER-69	–	– [6]	–	TER-69	TER-69 V	950	EPR-11
3-1/4"		618					LER-70	–	– [6]		TER-70	TER-70 V	950	EPR-11
3-3/8"						318*	LER-72	–	– [6]	–	TER-72	TER-72 V	750	EPR-11
3-5/16"	520	620					LER-73	–	– [6]		TER-73	TER-73 V	750	EPR-11
3-3/8"	520	620					LER-74	–	– [6]		TER-74	TER-74 V	750	EPR-11
3-7/16"	520*	620*					LER-75	–	– [6]	–	TER-75	TER-75 V	900	EPR-11
3-1/2"	520	620					LER-76	–	– [6]		TER-76	TER-76 V	900	EPR-11
3-13/16"					220*	320*	LER-87	–	– [6]	–	TER-87	TER-87 V	675	EPR-12
3-13/16"	522	622					LER-91	–	– [6]		TER-91	TER-91 V	775	EPR-13
3-7/8"	522	622					LER-92	–	– [6]		TER-92	TER-92 V	775	EPR-13
3-15/16"	522*	622*		317*			LER-93	–	– [6]	–	TER-93	TER-93 V	775	EPR-13
4"	522	622					LER-94	–	– [6]		TER-94	TER-94 V	775	EPR-13
4-1/8"				318*			LER-96	–	– [6]	–	TER-96	TER-96 V	750	–
4-1/16"	524	624					LOR-111	38309-111	B-10724-113	1350	TER-111	TER-111 V	725	EPR-14
4-1/8"	524	624					LOR-112	AS-568-156	B-10724-113	1350	TER-112	TER-112 V	725	EPR-14
4-3/16"	524*	624*			222*	322*	LOR-113	AS-568-156	B-10724-113	1350	TER-113	TER-113 V	725	EPR-14
4-1/4"	524	624					LOR-114	AS-568-156	B-10724-113	1350	TER-114	TER-114 V	725	EPR-14
4-5/16"	526	626					LOR-115	38309-115	B-10724-117	1300	TER-115	TER-115 V	700	EPR-15
4-3/8"	526	626					LOR-116	AS-568-157	B-10724-117	1300	TER-116	TER-116 V	700	EPR-15
4-7/16"	526*	626*					LOR-117	AS-568-157	B-10724-117	1300	TER-117	TER-117 V	700	EPR-15
4-1/2"	526	626					LOR-118	AS-568-157	B-10724-117	1300	TER-118	TER-118 V	700	EPR-15
4-9/16"	526	626					LOR-119	38309-119	B-10724-117	1300	TER-119	TER-119 V	700	EPR-15
4-1/2"			220*	320*			LER-205	–	– [6]	–	TER-205	TER-205 V	675	–
4-9/16"	528				224*	324*	LOR-119	38309-119	B-10724-117	1300	TER-119	TER-119 V	575	EPR-15
4-7/8"	528		222*	322*			LOR-121	AS-568-159	B-10724-122	1150	TER-121	TER-121 V	625	–
4-15/16"	528*				226*	326*	LOR-122	AS-568-159	B-10724-122	1150	TER-122	TER-122 V	520	EPR-27
5-1/8"	530	630					LOR-124	AS-568-160	B-10724-125	1075	TER-124	TER-124 V	590	EPR-16
5-3/16"	530*	630*					LOR-125	AS-568-160	B-10724-125	1075	TER-125	TER-125 V	590	EPR-16
5-1/4"	530	630					LOR-126	AS-568-160	B-10724-125	1075	TER-126	TER-126 V	590	EPR-16
5-5/16"	530	630	224*	324*	228*		LOR-127	38309-127	B-10724-125	1075	TER-127	TER-127 V	575	–
5-3/8"	530	630					LOR-128	AS-568-161	B-10724-125	1075	TER-128	TER-128 V	575	EPR-16
5-3/8"	532						LOR-129	AS-568-253	B-10724-130	1050	TER-129	TER-129 V	575	EPR-16
5-7/16"	532*						LOR-130	AS-568-254	B-10724-130	1050	TER-130	TER-130 V	560	EPR-16
5-1/2"	532						LOR-131	AS-568-254	B-10724-130	1050	TER-131	TER-131 V	560	EPR-16

* = Standard shaft diameter, all others are optional shaft diameters
1 = Speed rating same as bearing speed rating; see bearing tables
2 = O-ring supplied with LOR is for replacement only, AS-568-### are industry standard O-rings available at most SKF authorized distributors
3 = B-10724-###'s are the SKF PosiTrac Plus seal and require the LOR
4 = For stepped shaft housing designs, the largest shaft diameter is the limiting speed limit
5 = Most taconite seals are made to order; contact SKF for availability, all "V"-ring versions are made to order
6 = Consult SKF Applications Engineering for options

Seals & speed limits

Seal chart for SKF SDAF and SDAFS split pillow block housings

	S-1	S-1	S-2	S-2	S-3	S-3	Triple ring seal[1]		Contact seals		Taconite seals[5]			End plugs
Shaft diameter	500 Series	600 Series	200 Series	300 Series	200 Series	300 Series	Ring seal part number	O-Ring designation for LOR[2]	Contact seal P/N[3]	Speed limit rpm[4]	Contact seal type	"V"-Ring seal type	Speed limit rpm[4]	
5-7/16"		632*					LER-211	–	– [6]	–	TER-211	TER-211 V	560	EPR-17
5-3/4"					230*	330*	LOR-134	AS-568-162	B-10724-130	1050	TER-134	TER-134 V	460	EPR-17
5-7/8"			226*	326*			LOR-136	AS-568-163	B-10724-130	1050	TER-136	TER-136 V	520	–
5-15/16"		634*					LER-215	–	– [6]	–	TER-215	TER-215 V	515	EPR-19
6-1/16"					232*		LOR-142	38309-142	B-10724-140	950	TER-142	TER-142 V	435	EPR-18
6-1/16"						332*	LER-217	–	– [6]	–	TER-217	TER-217 V	435	EPR-19
6-1/4"				228*			LOR 144	AS-568-164	B-10724-144	925	TER-144	TER-144 V	–	–
6-5/16"	536						LOR-146	38309-146	B-10724-148	875	TER-146	TER-146 V	475	EPR-19
6-3/8"	536						LOR-147	AS-568-260	B-10724-148	875	TER-147	TER-147 V	475	EPR-19
6-7/16"	536*						LOR-148	AS-568-260	B-10724-148	875	TER-148	TER-148 V	475	EPR-19
6-1/2"	536						LOR-149	AS-568-260	B-10724-148	875	TER-149	TER-149 V	475	EPR-19
6-7/16"		636*				334*	LER-220	–	– [6]	–	TER-220	TER-220 V	475	EPR-26
6-5/8"			230*	330*			LOR-151	AS-568-166	B-10724-151	850	TER-151	TER-151 V	460	–
6-7/8"					236*		LOR-154	AS-568-262	B-10724-155	825	TER-154	TER-154 V	390	EPR-20
6-7/8"						336*	LER-223	–	B-9784-130	750	TER-223	TER-223 V	390	EPR-21
6-15/16"	538*	638*					LER-224	–	– [6]	–	TER-224	TER-224 V	440	EPR-21
7"			232*				LOR-156	AS-568-262	B-10724-155	825	TER-156	TER-156 V	435	–
7"				332*			LER-225	–	– [6]	–	TER-225	TER-225 V	435	–
7-3/16"	540*	640*					LER-228	–	B-9784-140	800	TER-228	TER-228 V	425	EPR-22
7-1/4"					238*	338*	LER-229	–	B-9784-141	700	TER-229	TER-229 V	365	EPR-22
7-7/16"				334*			LER-230	–	– [6]	–	TER-230	TER-230 V	410	–
7-5/8"					240*		LER-233	–	B-9784-146	650	TER-233	TER-233 V	350	EPR-23
7-13/16"			236*				LOR-165	AS-568-266	B-17024-167	725	TER-165	TER-165 V	390	–
7-13/16"				336*			LER-234	–	B-9784-148	750	TER-234	TER-234 V	390	–
7-15/16"	544*						LER-236	–	– [6]	–	TER-236	TER-236 V	385	EPR-24
8-5/16"					244*		LER-239	–	– [6]	–	TER-239	TER-239 V	315	EPR-25
8-3/8"			238*	338*			LER-240	–	– [6]	–	TER-240	TER-240 V	365	–
8-3/4"			240*				LER-244	–	B-9784-159	650	TER-244	TER-244 V	350	–
9-9/16"			244*				LER-248	–	– [6]	–	TER-248	TER-248 V	315	–

* = Standard shaft diameter, all others are optional shaft diameters
1 = Speed rating same as bearing speed rating; see bearing tables
2 = O-ring supplied with LOR is for replacement only, AS-568-### are industry standard O-rings available at most SKF authorized distributors
3 = B-10724-###'s are the SKF PosiTrac Plus seal and require the LOR
4 = For stepped shaft housing designs, the largest shaft diameter is the limiting speed limit
5 = Most taconite seals are made to order; contact SKF for availability, all "V"-ring versions are made to order
6 = Consult SKF Applications Engineering for options

Seals & speed limits

Seal chart for SKF SDAF extended range adapter mount split pillow block housings[5]

Shaft diameter	S-1 SDAF 23000	S-1 SDAF 23100	S-1 SDAF 23200	Triple ring seal[1,4] Ring seal part number	Taconite seals[2,3] Contact seal	"V"-Ring seal	Speed limit rpm	End plugs
8-15/16"			3248 KA*	ERF-914	TER-914	TER-914 V	280	X-5217-25
9"			3248 KA	ERF-828	TER-828	TER-828 V	280	X-5217-25
9-7/16"		3152 KA*	3252 KA*	ERF-891	TER-891	TER-891 V	275	X-5217-53
9-1/2"		3152 KA	3252 KA	ERF-842	TER-842	TER-842 V	275	X-5217-53
9-15/16"		3156 KA		ERF-845	TER-845	TER-845 V	270	X-5217-35
10"		3156 KA		ERF-820	TER-820	TER-820 V	270	X-5217-54
10-7/16"		3156 KA*	3256 KA*	ERF-973	TER-973	TER-973 V	260	X-5217-52
10-1/2"		3156 KA	3256 KA	ERF-840	TER-840	TER-840 V	260	X-5217-52
10-15/16"	3060 KA*	3160 KA*		ERF-858	TER-858	TER-858 V	280	X-5217-9
10-15/16"			3260 KA*	ERF-1002	TER-1002	TER-1002 V	270	X-5217-55
11"	3060 KA	3160 KA		ERF-825	TER-825	TER-825 V	275	X-5217-9
11"			3260 KA	ERF-1003	TER-1003	TER-1003 V	270	X-5217-55
11-7/16"	3064 KA*			ERF-861	TER-861	TER-861 V	270	X-5217-16
11-1/2"	3064 KA			ERF-832	TER-832	TER-832 V	265	X-5217-16
11-15/16"	3064 KA*			ERF-859	TER-859	TER-859 V	260	X-5217-3
11-15/16"		3164 KA*	3264 KA*	ERF-900	TER-900	TER-900 V	260	X-5217-43
12"	3064 KA			ERF-818	TER-818	TER-818 V	255	X-5217-3
12-7/16"	3068 KA*			ERF-865	TER-865	TER-865 V	250	X-5217-29
12-7/16"		3168 KA*	3268 KA*	ERF-975	TER-975	TER-975 V	250	---
12-1/2"	3068 KA			ERF-866	TER-866	TER-866 V	245	X-5217-29
12-15/16"	3072 KA*			ERF-869	TER-869	TER-869 V	240	X-5217-28
13"	3072 KA			ERF-846	TER-846	TER-846 V	235	X-5217-28
13-7/16"	3072 KA*	3172 KA*		ERF-872	TER-872	TER-872 V	230	X-5217-27
13-7/16"			3272 KA*	ERF-979	TER-979	TER-979 V	230	---
13-1/2"	3072 KA	3172 KA		ERF-823	TER-823	TER-823 V	225	X-5217-27
13-15/16"	3076 KA*	3176 KA*		ERF-875	TER-875	TER-875 V	215	X-5217-12
13-15/16"			3276 KA*	ERF-977	TER-977	TER-977 V	215	---
14	3076 KA	3176 KA		ERF-876	TER-876	TER-876 V	215	X-5217-12
14-15/16"	3080 KA*			ERF-882	TER-882	TER-882 V	200	---
14-15/16"		3180 KA*	3280KA*	ERF-976	TER-976	TER-976 V	200	---
15"	3080 KA*			ERF-847	TER-847	TER-847 V	200	X-5217-21
15-3/4"	3084 KA*			ERF-969	TER-969	TER-969 V	185	X-5217-23
15-3/4"		3184 KA*	3284 KA*	ERF-907	TER-907	TER-907 V	185	X-5217-5
16-1/2"	3088 KA*	3188 KA*	3288 KA*	ERF-958	TER-958	TER-958 V	180	---
17"	3092 KA*	3192 KA*		ERF-838	TER-838	TER-838 V	175	X-5217-48
18"	3096 KA*	3196 KA*		ERF-888	TER-888	TER-888 V	170	---
18-1/2"	230/500 KA*			ERF-978	TER-978	TER-978 V	170	---
19-1/2"	230/530 KA*			ERF-926	TER-926	TER-926 V	165	---

* = Standard shaft diameter, all others are optional shaft diameters
1 = Speed rating same as bearing speed rating; see bearing tables; not all optional shaft diameter ring seals are stocked items
2 = Taconite seals are made to order; contact SKF for availability
3 = The SKF preferred taconite seal design is a split bolt-on-taconite auxiliary cover
4 = Optional shaft diameters may require special machining so alternate ring seals or end plugs require review prior to ordering
5 = These housings are available in cast-Iron (SDAF), cast-steel (SDAFS) and ductile-iron (SDAFD)

Lubrication

Introduction

The information presented in this section is intended to provide the user with basic and practical information on the lubrication of split pillow blocks. It does not include a theoretical background. As the world leader in rolling bearing technology, SKF has extensive information available on the subject of bearing lubrication theory. Some of this information can be found in other SKF publications including the General Catalog (6000 EN) and the Bearing Installation and Maintenance Guide (140-710). If you have questions regarding bearing lubrication not addressed here or in these other SKF publications, please contact SKF Applications Engineering.

General

The primary function of lubrication is to prevent damaging metal to metal contact at the various sliding and rolling contact surfaces of the bearing. Metal to metal contact causes excessive rates of wear and can lead to premature bearing failure. The secondary function of lubrication is to protect the highly finished bearing surfaces from rust and corrosion. Lubrication can also be used to transfer heat from a bearing (circulating oil) and provide additional sealing (grease).

SKF split pillow block housings are designed to permit either grease, static oil bath, or circulating oil lubrication of the bearings inside. Most caps are drilled and tapped with two holes located at 30° off vertical centerline. The hole over the center of the housing is for the lubrication of spherical roller bearings which have the W33 feature (a groove and three holes around the outer ring). The second of the two holes is used for self-aligning ball bearings, which do not have the W33 feature. The housing bases are equipped with a drain hole on each side to aid in removing old lubricants or serve as an outlet for circulating oil. The reservoirs inside the housings are designed so that they maintain adequate quantities of either grease or oil for reliable long-term operation.

At speeds within the bearing grease speed rating and operating temperatures, which do not exceed approximately 180° F, grease is the simplest and most reliable form of lubrication. Grease has the additional advantage of affording excellent protection against rust and the intrusion of dirt. Application systems for grease are relatively simple and inexpensive when compared to those for oil.

At higher speeds and temperatures, grease relubrication intervals become unacceptably short and oil lubrication is highly recommended. Static oil baths and circulating oil systems can be used with SKF split pillow blocks with little or no modification to the blocks. Inlet and drain holes appropriate for most oil lubricated applications are standard on SKF split pillow blocks, and oil sight glasses and other special fittings can be provided. The level of the oil should be at the center of the lowermost ball or roller when the bearing is stationary. Refer to the "K" dimension in the housing dimension tables.

Circulating oil should be drained from both side drains of the pillow block. The drain piping must be adequately sized and arranged to allow the free drainage of oil. Too high of an oil level, or too large of a quantity of grease can result in high operating temperatures due to churning of the lubricant.

Lubricant

Grease

Most greases consist of a lubricating oil (approx. 90%) suspended in a soap base (approx. 10%).

The latter merely acts to keep the oil in suspension. When moving parts of a bearing come in contact with the grease, a small quantity of oil will adhere to the bearing surfaces. Oil is therefore removed from the grease near the rotating parts. The oil that is picked up by the bearing is gradually broken down by oxidation or lost by evaporation, centrifugal force, etc. Bleeding of the grease should therefore take place to continue to supply a small quantity of oil, which is usually sufficient for satisfactory operation. But, needless to say, the bearing cannot function properly unless the supply of oil keeps up with the demand. This process cannot go on indefinitely. In time, the grease will oxidize or the oil in the grease near the rotating parts may be depleted.

When can grease be used?

For normally loaded applications, which operate without the effects of outside heat sources and where the bearings do not exceed the grease speed rating, grease lubrication is most often used. When loads are heavy, or bearings are subject to external heat sources or other extremes in ambient temperature, or speeds exceed the bearing grease speed rating, a bearing temperature analysis should be conducted to verify that expected operating temperatures are within acceptable limits, typically less than 180° F. SKF Applications Engineering can assist with this analysis.

What kind of grease should be used?

For most split pillow block applications, SKF recommends the use of a high quality, NLGI grade 1 or 2 consistency, lithium soap based grease with a mineral base oil. Consistency refers to the stiffness of a grease and is classified according to the National Lubricating Grease Institute (NLGI) of the United States. Higher NLGI numbers correspond to stiffer greases. In slow speed or low temperature applications, an NLGI 2 may channel excessively leaving the bearing without oil. In these applications, it may be necessary to use a softer grease, i.e. an NLGI 1 or 0. Please consult SKF Applications Engineering.

With respect to bearing lubrication, viscosity is another characteristic of the grease that should be evaluated. SKF Applications Engineering can help you determine the necessary viscosity at the bearing operating temperature to prevent metal to metal contact at the rolling contact surfaces. However, to prevent metal to metal contact at the sliding contact surfaces, the viscosity at the operating temperature should be at least 21 cSt (100 SUS) for spherical and toroidal (carb) roller bearings and at least 13 cSt (70 SUS) for ball bearings. Note that the operating temperature of the bearing is typically 10° to 20° F warmer than the surface of the housing.

Although greases with soap bases other than lithium are often successfully used in the lubrication of bearings, it has been the experience of SKF that lithium soaps offer the best combination of high temperature stability, resistance to water, and durability in split pillow block applications. Greases with mineral base oils have long been the recommended type although synthetics, such as SHCs (synthetic hydrocarbons), are starting to gain favor due to their high temperature performance, i.e. they have higher oxidation resistance. As a general rule, greases with different soap bases, consistencies, or base oil types should not be mixed.

How much grease should be used?

For the majority of split pillow applications, at installation, the base of the housing should be packed 1/3 to 1/2 full and the bearing should be filled with grease by working it in between the rolling elements. As mentioned earlier, too much grease can result in high operating temperatures due to lubricant churning. For low speed applications, which operate in a heavily contaminated environment, the housing and bearing can be filled 100% with grease to provide additional sealing protection. The low speed should preclude the danger of high operating temperatures. For relubrication quantities and intervals, refer to the appropriate following sections.

Oil

SKF split pillow blocks are suitable for static oil bath and circulating oil methods of lubrication. Oil is generally used when high speeds or operating temperatures preclude the use of grease, when heat must be removed from the bearing, or when surrounding components are oil-lubricated.

What kind of oil should be used?

SKF recommends the use of a good quality, straight mineral oil without additives. The oil should be resistant to oxidation and gumming and obviously should not cause corrosion to any bearing or housing components. Oils containing additives for the improvement of certain lubricant properties such as extreme pressure behavior, aging resistance, anti-corrosion, etc., are generally only used in special cases. Synthetic oils are generally only considered for bearing lubrication in extreme cases, e.g. at very low or very high operating temperatures. It should be remembered that the lubricant film formation when using a synthetic oil may differ from that of a mineral oil having the same viscosity. For information concerning EP additives (in grease and oil), refer to the General Catalog (6000EN).

Viscosity is another characteristic that should be evaluated. SKF Applications Engineering can again be used to determine the minimum viscosity at the bearing operating temperature to prevent metal to metal contact at the rolling contact surfaces. However, to prevent metal to metal contact at the sliding contact surfaces, the viscosity at the operating temperature should be at least 21 cSt (100 SUS) for spherical and toroidal (CARB) roller bearings and at least 13 cSt (70 SUS) for ball bearings. Note that the operating temperature of the bearing is typically 10° to 20° F warmer than the surface of the housing.

How often should the oil be changed?

The frequency at which the oil must be changed is mainly dependent on the operating conditions and on the quantity of oil used.

Where oil bath lubrication is employed it is normally sufficient to change the oil once a year, provided the bearing temperature does not exceed 120° F (50° C) and there is no contamination. Higher temperatures or more arduous running conditions necessitate more frequent changes, e.g. at a temperature of 220° F (110° C) the oil should be changed every 3 months. For circulating oil systems the period between complete oil changes is dependent on how often the oil is circulated over a given period of time and whether it is cooled, etc. The most suitable period can generally only be determined by trial runs and frequent examination of the oil. The same practice also applies to oil jet lubrication.

Oil bath

A simple oil bath is suitable for low and moderate speed applications. The level of the oil should be at about the center of the lowermost ball or roller when the bearing is stationary. The dimension for this is given in the dimension tables as "K". For higher speeds, the level should be slightly lower to reduce the effects of lubricant churning or about $^1/_8$" above the corner of the outer ring sphere of the bearing. An oil sight glass must be used to monitor the oil level during operation. It mounts into one of the drain holes in the housing base. Additionally, for higher speeds, SKF can supply special seals which reduce oil leakage. SKF Applications Engineering can assist with determining the best sealing requirements.

The static oil level should be marked on the sight glass at installation and a running level should be marked immediately after start up. Depending on the type of bearing and the speed and direction of rotation, the running level will either rise or fall from the static level.

Circulating oil systems

Pressurized circulating oil, for auxiliary heat removal allows higher operation, and prolongs the life of the oil where operating conditions are usually severe such as in high temperature applications. Most commercial circulating oil systems have components which filter and cool the oil, creating the best possible operating condition for the bearing.

Oil is introduced through one of the inlet holes in the housing cap and drained from one or both sides of the base. For spherical roller bearings, oil should be put in through the center hole in the cap and drained from both sides of the base. For ball bearings and toroidal roller (CARB) bearings, oil should be put in through the offset hole in the cap and drained from the opposite side of the base so that oil is forced to go through the bearing before being outlet. Drains should lead downward immediately outside of the housing to prevent accumulation of oil in the housing. Horizontal drains must be avoided.

Additional considerations may be necessary when using circulating oil. These can include special seals, cross drillings in the housing, wet sump requirements, flow rates, and enlarging drain hole diameters. Please consult SKF Applications Engineering concerning these issues.

Lubrication

Comparative advantages of oil and grease

Advantages of grease

1. Maintenance work is ordinarily reduced since there are no oil levels to maintain and the addition of a new lubricant is required less frequently.
2. Grease in proper quantity is more easily confined to the housing. Design of enclosures can therefore be simplified.
3. Freedom from leakage is readily accomplished in food, textile, chemical industries and where contamination of products must be avoided.
4. Grease improves the efficiency of labyrinth enclosures and offers better protection for the bearing.
5. The friction torque and temperature rise are usually more favorable.

Advantages of oil

1. Oil is easier to drain and refill. This may be more desirable for applications requiring short lubricating intervals.
2. The correct amount of lubricant is more easily controlled.
3. Oil lends itself more readily to the lubrication of all parts of a machine.
4. Oil lends itself to applications with higher temperatures.

Protection against moisture

No rolling bearing lubricant has been developed, which will completely protect a bearing against moisture. However, rolling bearings are frequently used with success where moisture is present. The design of enclosures and lubrication systems requires careful consideration. Selection of the lubricant is important to minimize effects of some moisture entry.

Compounded oils are more water repellent than straight mineral oils and are, therefore, better able to keep moisture from the bearing surfaces. If, however, the oil is permitted to oxidize, it will be more destructive to the bearing surfaces when moisture is present.

A sodium-base grease will usually form a non-corrosive emulsion when mixed with a limited quantity of water. Agitation is necessary to form the emulsion. If water enters the bearing while there is no agitation from rotation, the bearing can become corroded. Because of the limited tolerance to water and the potential damage while static, sodium-base greases are losing favor to the water-repellent quite-stable lithium-base greases. Of course, the water-repellent grease must completely cover the bearing to protect it and so, attention must be paid to the static condition. Water-repellent grease is useful also in improving efficiency of labyrinth seals.

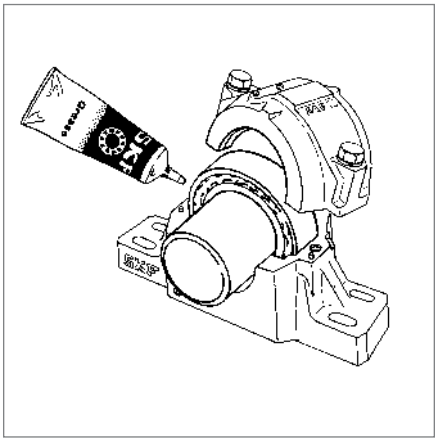
Initial grease charge for split pillow block housings

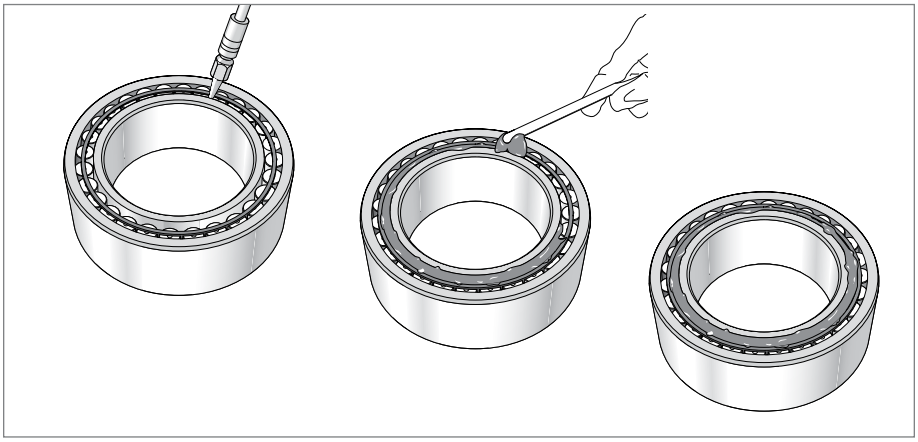
The recommended initial grease charge (weight) for split pillow block and bearing assemblies are listed in the accompanying tables. Values apply for spherical roller bearings, toroidal roller (CARB) bearings and self-aligning ball bearing units. The initial charge is intended to fill approximately 1/2 of the free space in the housing cavities and should be used for applications operating at slow to moderate speeds under 2/3 of the grease speed rating shown in the bearing tables. For higher operating speeds or applications running in clean environments, the recommended initial grease charge may be reduced by approximately 1/3 in order to minimize churning. For operation over the bearing grease speed ratings or less than 10 rpm, consult SKF Applications Engineering.

At initial assembly of the unit, spherical roller bearings and self-aligning ball bearings should be internally packed 100% around the cage and rolling elements. Toroidal roller (CARB) bearings should be filled approximately 50% full of grease at installation with that grease being placed under the cage totally filling the space between the cage and inner ring. The remainder of the grease should be applied to the side cavities in the housing base and the labyrinth grooves of the ring seals.

Initial grease charge for SAF pillow block assemblies

Initial charge SAF	SAF	SAF	SAF	SAF	oz	lbs
		507			2.5	
		509			3.0	
		510			4.0	
	308				4.5	
	309		609		5.0	
		511			5.0	
	310		610		6.5	
		513			7.5	
	311		611		8.0	
		515			9.0	
	312				10.0	
216	313	516	613		13.0	
217		517			13.0	
	314				14.0	
218	315	518	615		14.0	
	316		616		16.0	
	317		617		20.0	
220		520		024	21.0	
	318		618		22.0	
222		522		026	28.0	
224	320	524	620	028	40.0	
226	322	526	622	030		$3^1/_4$
				032		$3^1/_4$
228		528		034		$3^1/_4$
230	324	530	624			$3^3/_4$
232	326	532	626	036		$4^1/_4$
				038		$4^1/_4$
234	328	534	628	040		$5^1/_4$
236	330	536	630			6
238	332	538	632	044		$7^1/_4$
240	334	540	634	048		$8^1/_2$
244	338	544	638	052		$11^1/_2$
	340		640	056		$15^1/_2$





Lubrication

Initial grease charge for SDAF pillow block assemblies (estimate)

SDAF	SDAF	SDAF	SDAF	Initial charge oz	lbs
219	316		616	16	
220	317	520	617	20	
	318		618	21	
222	319	522		27	
224	320	524	620	32	
226	322	526	622	44	
228		528		44	
230	324	530	624		3
232	326	532	626		$3\frac{3}{4}$
234	328	534	628		$4\frac{3}{4}$
236	330	536	630		$5\frac{1}{2}$
238	332	538	632		$6\frac{1}{2}$
240	334	540	634		8
	336		636		9
244	338	544	638		$10\frac{1}{2}$
	340		640		12

Initial grease charge for SAW pillow block assemblies (estimate)

SAW	SAW	Initial charge oz	lbs
220	520	26	
222	522	34	
224	524	40	
226	526		3
228	528		$3\frac{3}{4}$
230	530		$4\frac{1}{2}$
323	532		$5\frac{1}{2}$
234	534		$6\frac{1}{2}$
236	536		7
238	538		$8\frac{1}{2}$
240	540		10
244	544		$13\frac{1}{4}$

Initial grease charge for SDAF extended range pillow block assemblies (estimate)

SDAF extended range			lbs
	3152	3248	10
3060	3156	3252	15
3064	3160	3256	15
3072	3164		18
3076		3260	20
	3168	3264	22
3080	3172	3264	25
3084	3176		21
3088	3180	3268	27
		3272	32
3092		3276	32
3096	3184		40
	3188		38
30/500		3280	44
30/530	3192	3284	46
	3196	3288	47
		3292	60
		3296	60

Due to the special engineering nature of these housings, please consult with SKF Applications Engineering for custom lubrication recommendations.

Shaft fits for split pillow block housings

The following chart shows the recommended shaft diameter tolerance for split pillow block housings. S-1 refers to the shaft diameter for an adapter mount bearing and S-2 & S-3 refer to the shaft diameter under the seal for cylindrical mounted bearings.

The values S-1, S-2, and S-3 can be found in the product tables starting on page 358. The bearing seat diameter should be selected from the bearing fit tables in the Bearing Installation and Maintenance Guide (SKF publication # 140-710).

Shaft tolerance for split pillow block mountings

Nominal dia. In		For adapter mounting Dia. tolerance limits In	For cylindrical mounting Dia. tolerance limits In
Over	Including	S-1	S-2 and S-3
1/2	1	0.000 –0.002	–
1	2	0.000 –0.003	0.000 –0.003
2	4	0.000 –0.004	0.000 –0.003
4	6	0.000 –0.005	0.000 –0.003
6	10	0.000 –0.006	0.000 –0.004
10	15	0.000 –0.006	0.000 –0.005
15		0.000 –0.006	0.000 –0.006

Housing loads for split pillow blocks

The selection of a rolling bearing pillow block depends not only on determining adequate service life of the bearing for the operating conditions of the application, but also on the adequacy of the housing to safely accommodate the magnitude and characteristics of all applied loading.

Split pillow blocks are designed for predominantly vertical loads directed through the base. If the load direction is otherwise, care must be taken to see that the housing selected has sufficient strength. It must have an adequate factor of safety against fracture and be properly assembled to carry the loading involved.

Proper assembly techniques dictate that the housing cap and base bolts be torqued to achieve preload during installation, to avoid elastic separation of the mating parts under load and to resist gradual loosening over ime. To obtain full fatigue resistance of the bolts, care in following recommended torque requirements is of particular importance; especially when the assembly is subjected to the action of cyclic loading and dynamic imbalance.

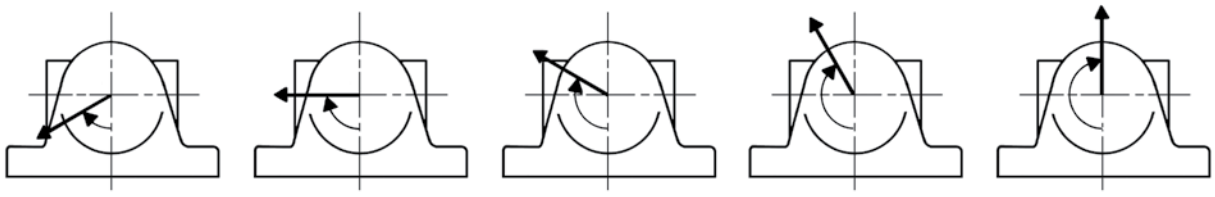
The tabulations on pages 352-356 show the approximate safe loading for different directions of load. These guideline limits have been established using accepted engineering practices with consideration given to safety, ultimate tensile strength of the materials used and working stresses to reflect a safety factor of 5 against base fracture, and a minimum factor of 2 against cap bolt yield.

When the loading acts at an angle between 60° and 120°, or if the axial direction exceeds 25% of the P180° value shown in the tables, it is recommended that the housing be doweled to its mounting surface. Starting dimples are provided on the feet of most housings, which can be drilled for dowel pins. Alternatively, the mounting surface may be provided with positive stops or “shear blocks” to locate the housing in the direction of load.

The maximum permissible axial loading that can be safely carried by the pillow block assembly depends on various considerations in addition to the operational performance abilities of the bearing. For a purely axial force under static or dynamic conditions, the permissible load on the pillow block casting should not exceed 65% of P180°. Additionally for adapter mounted assemblies the axial load rating to safely prevent slippage on the shaft can be found in the tables on page 365.

Housing loads – SAF style cast-iron

(values in pounds force)



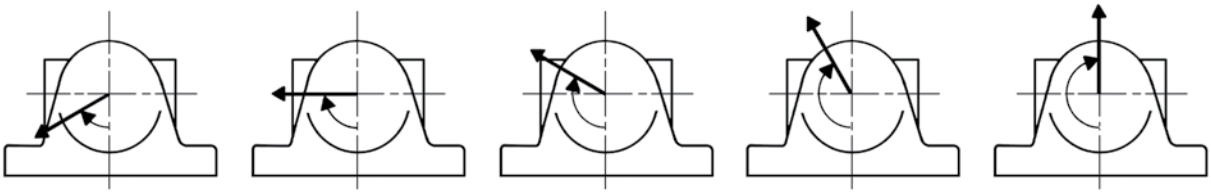
P 60° P 90° P 120° P 150° P 180°

Pillow block housing designation						Recommended safe loads					Cap bolt information		
SAF	SAF	SAF	SAF	SAF	Style	P 60°	P 90°	P 120°	P 150°	P 180°	Cap bolt (no.) size	Torque	SAE grade
						lbf					in	ft-lbs	
			509		M5	4700	2800	1700	1500	1800	(2) 7/16-14	45	5
		308			A	7300	4400	2800	2500	3100	(2) 1/2-13	110	8
			510		M5	6500	3900	2500	2200	2800	(2) 7/16-14	45	5
		309		609	A	7900	4700	3000	2700	3300	(2) 1/2-13	110	8
			511		M5	10100	6100	3900	3500	4300	(2) 1/2-13	60	5
		310		610	A	8800	5300	3200	2900	3500	(2) 1/2-13	110	8
			513		M5	11300	6800	4000	3600	4300	(2) 1/2-13	60	5
		311		611	A	9700	5800	3600	3300	4000	(2) 1/2-13	110	8
		*311		*611	A	8000	4800	3000	2700	3200	(2) 1/2-13	110	8
		312			A	11100	6700	4100	3700	4500	(2) 1/2-13	110	8
		*312			A	9500	5700	3500	3100	3800	(2) 1/2-13	110	8
			515		M5	17000	10200	6300	5700	6800	(2) 1/2-13	60	5
			*515		M5	12200	7300	4500	4100	5000	(2) 1/2-13	60	5
		313		613	A	18700	11200	6800	6000	7100	(2) 5/8-11	220	8
		*313		*613	A	13600	8100	4900	4400	5200	(2) 5/8-11	220	8
216			516		M5	18700	11200	6800	6000	7100	(2) 5/8-11	110	5
*216			*516		M5	13600	8100	4900	4400	5200	(2) 5/8-11	110	5
		314			A	20800	12500	7800	6900	8500	(2) 5/8-11	220	8
		*314			A	20800	12500	7800	6900	8500	(2) 5/8-11	220	8
217			517		M5	19000	11400	7100	6400	7800	(2) 5/8-11	110	5
*217			*517		M5	13800	8300	5200	4700	5700	(2) 5/8-11	110	5
218			518		M5	27200	16300	10200	9100	11200	(2) 5/8-11	110	5
*218			*518		M5	22800	13700	8600	7800	9500	(2) 5/8-11	110	5
		315		615	A	27200	16300	10200	9100	11200	(2) 5/8-11	220	8
		*315		*615	A	22800	13700	8600	7800	9500	(2) 5/8-11	220	8
		316		616	A	19300	11600	7200	6500	7800	(2) 3/4-10	380	8
		*316		*616	A	20800	12500	7600	6900	8300	(2) 3/4-10	380	8
		317		617	A	21200	12700	8000	7200	8600	(2) 3/4-10	380	8
		*317		*617	A	23300	14000	8800	8000	9600	(2) 3/4-10	380	8
220	024		520		M5	30500	18300	11400	10400	12500	(2) 3/4-10	150	5
*220	*024		*520		M5	26700	16000	10000	9000	11000	(2) 3/4-10	150	5
		318		618	A	28800	17300	11000	10000	12200	(2) 3/4-10	380	8
222	026		522		M5	33400	20000	12500	11400	13700	(2) 3/4-10	150	5
224			524		M5	41700	25000	16300	15000	18300	(2) 1-8	295	5
	028	320		620	A	41700	25000	16300	15000	18300	(2) 1-8	900	8
226			526		M5	42500	25500	16600	15300	19000	(2) 1-8	295	5
	030/032	322		622	A	42500	25500	16600	15300	19000	(2) 1-8	900	8
228	034		528		M5	55900	33500	21200	19300	23200	(2) 1-8	295	5
230		324	530	624	A	51700	31000	19600	18000	21600	(4) 3/4-1	380	8
232	036/038	326	532	626	A	50900	30500	19300	17600	21200	(4) 3/4-10	380	8
234	040	328	534	628	A	52600	31500	19300	17300	20800	(4) 3/4-10	380	8
236		330	536	630	A	52600	31500	19000	17000	20000	(4) 3/4-10	380	8
238	044	332	538	632	A	65100	39000	24000	21200	25500	(4) 7/8-9	600	8
240	048	334	540	634	A	81800	49000	30500	27000	32500	(4) 7/8-9	600	8
244	052	338	544	638	A	95100	57000	36000	32500	39000	(4) 1-8	900	8
	056	340		640	A	101000	61000	38000	34000	41500	(4) 1 1/2-6	870	2

*When the bearing housing can be supplied with either a two- or four-bolt base, the asterisk indicates allowable loads for the four-bolt base option. Grade 5 cap bolt torques are based on manufacturing processes. Increased tightening torques may be required for critical applications. Consult SKF Applications Engineering for further details.

Housing loads – SAFS style cast-steel

(values in pounds force)



Pillow block housing designation						Recommended safe loads					Cap bolt information		
SAFS	SAFS	SAFS	SAFS	SAFS	Style	P 60°	P 90°	P 120°	P 150°	P 180°	Cap bolt (no.) size	Torque	SAE grade
						lbf					in	ft-lbs	
			515		L	23300	13400	8300	7500	9000	(2) 1/2-13	110	8
			*515		L	17000	10200	6400	5700	6900	(2) 1/2-13	110	8
216			516		L	31000	18600	11200	10000	11800	(2) 5/8-11	220	8
*216			*516		L	31000	18600	11200	10000	11800	(2) 5/8-11	220	8
217			517		L	17700	10600	6500	6000	7200	(2) 5/8-11	220	8
*217			*517		L	18700	11200	7100	6400	7600	(2) 5/8-11	220	8
218			518		N	31700	19000	12000	10800	13200	(4) 1/2-13	110	8
*218			*518		N	35400	21200	13400	12200	14600	(4) 1/2-13	110	8
220	024		520		N	31700	19000	11800	10800	12900	(4) 5/8-11	220	8
*220	*024		*520		N	39400	23600	14600	13200	16000	(4) 5/8-11	220	8
222	026		522		N	40000	24000	15000	13400	16300	(4) 5/8-11	220	8
224			524		M7	55900	33500	21200	19600	24000	(4) 5/8-11	220	8
	028	320		620	N	55900	33500	21200	19600	24000	(4) 5/8-11	220	8
226	030	322	526	622	N	69300	41500	28000	26500	34000	(4) 3/4-10	380	8
	032				N	69300	41500	28000	26500	34000	(4) 3/4-10	380	8
228			528		N	67600	40500	26000	23600	28500	(4) 7/8-9	600	8
	034				N	67600	40500	26000	23600	28500	(4) 7/8-9	600	8
230		324	530	624	N	88500	53000	33500	30500	36500	(4) 7/8-9	600	8
232	036	326	532	626	N	77600	46500	30000	27000	32500	(4) 7/8-9	600	8
	038				N	77600	46500	30000	27000	32500	(4) 7/8-9	600	8
234	040	328	534	628	N	77600	46500	28500	25500	30000	(4) 1-8	900	8
238		330	536	630	L	120200	72000	44000	39000	45500	(2) 1 3/8-6	2380	8
238	044	332	538	632	N	93500	56000	34000	30500	36000	(4) 1 1/8-7	1280	8
240	048	334	540	634	N	125200	75000	46500	41500	50000	(4) 1 1/4-7	1820	8
244	052	338	544	638	N	155300	93000	58500	53000	64000	(4) 1 1/2-6	3160	8
	056	340		640	N	150300	90000	56000	50000	60000	(4) 1 1/2-6	3160	8

*When the bearing housing can be supplied with either a two- or four-bolt base, the asterisk indicates allowable loads for the four-bolt base option

SAF A-style

Taking advantage of technological advances in design and manufacturing the SAF A-style housing offers a high mechanically efficient design having significantly improved upward load capacity for greater safety and reliability with a minimum of material weight. Of modern functional appearance, and a choice of 2- or 4-bolt mounting variations, the SAF A housing interchanges with previous designs and complies with all industry mounting dimensions.

In addition to its superior upward strength, the following features have been added:

- Pry slots for easier cap removal
- All cap bolts supplied of heat treated, high tensile material for improved strength and maximum safety
- Large sump design for use with either grease or oil
- Flat square foot for proper base bolt seating and proper assembly alignment during installation
- Cast-in dimples in the base for dowel pin drilling during field installations

SAF L-style

The SAF L-style is the classic 2-bolt cap design, which established the SAF interchange dimensions within the industry.

SAF N-style

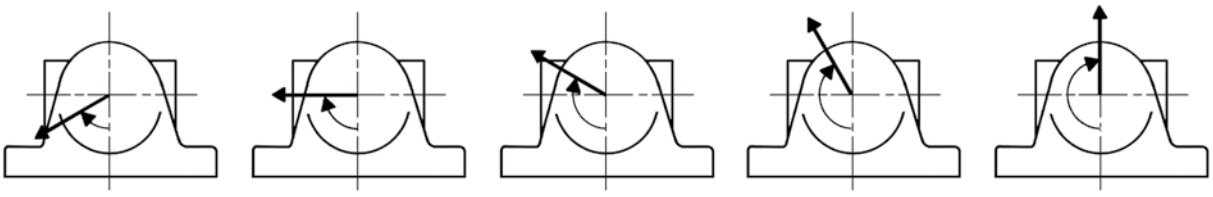
The SAF N-style is a rugged, 4-bolt cap design available only in the largest SAFS sizes where the cast-in lifting grips on each side of the cap provide ease of handling whether manually or with a sling.

SAF M5-style

The SAF M5 style incorporates modern technology to optimize its design, thus offering high mechanical efficiency while reducing the housing weight. The optimized foot design removes the old gussets and still maintains housing strength. The sump has been maximized and is suitable for grease or oil lubrication, while the cast-in oil drain back feature reduces leakages. The newly designed under-coring allows for uniform material cooling when cast, while the foot hole and center cross supports improve housing bore roundedness. Additionally, SKF has patented a grease guiding system for side lubrication.

Housing loads – SAW style cast-iron

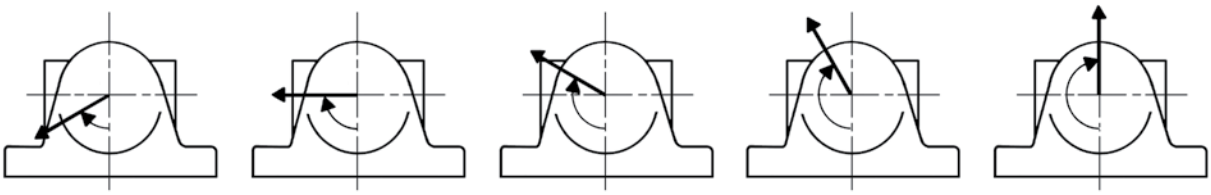
(values in pounds force)



Pillow block housing designation	Style	Recommended safe loads					Cap bolt information		
SAW		P 60°	P 90°	P 120°	P 150°	P 180°	Cap bolt (no.) size	Torque	SAE grade
		lbf					in	ft-lbs	
520	A	26720	16000	10000	9000	1100	(2) 3/4-10	380	8
526	A	42585	25500	16600	15300	19000	(2) 1-8	900	8
528	N	43420	26000	16600	15000	18300	(4) 7/8-9	165	2
538	A	65130	39000	24000	21200	25500	(4) 7/8-9	600	8
540	A	81830	49000	30500	27000	32500	(4) 7/8-9	600	8
544	A	95190	57000	36000	32500	39000	(4) 1-8	900	8

Housing loads – SDAF style cast-iron, SDAFS cast-steel

(values in pounds force)



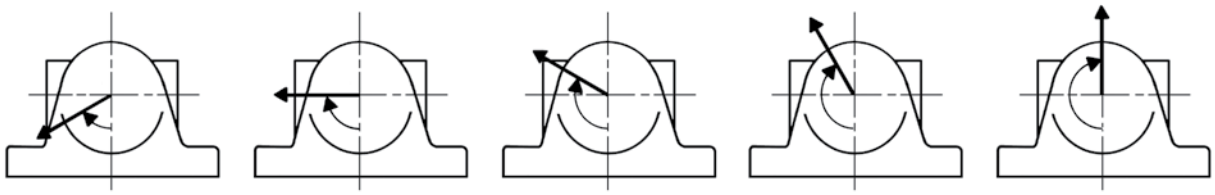
Pillow block housing designation					Recommended safe loads					Cap bolt information		
SDAF	SDAF	SDAF	SDAF	SDAF	P 60°	P 90°	P 120°	P 150°	P 180°	Cap bolt (no.) size	Torque	SAE grade
					lbf					in	ft-lbs	
220	317	520	617	–	40080	24000	15000	13700	16600	(4) 3/4-10	175	2
	318		618	–	45925	27500	17300	16000	19300	(4) 3/4-10	175	2
222		522		–	51770	31000	19600	17600	21200	(4) 7/8-9	165	2
224	320	524	620	–	54000	36500	23600	21600	26500	(4) 7/8-9	165	2
226	322	526	622	–	60120	36000	23600	21600	27000	(4) 7/8-9	165	2
230	324	530	624	–	85170	51000	32000	29000	35500	(4) 1 1/8-7	350	2
232	326	532	626	–	83500	50000	31500	28500	34500	(4) 1 1/8-7	350	2
236	330	536	630	–	90180	54000	32500	29000	34500	(4) 1 1/4-7	500	2
238	332	538	632	–	127755	76500	47500	43000	52000	(4) 1 1/4-7	500	2
240	334	540	634	–	150300	90000	56000	50000	60000	(4) 1 1/4-7	500	2
	336		636	–	141950	85000	53000	48000	57000	(4) 1 3/8-6	660	2
244	338	544	638	–	152805	91500	57000	52000	63000	(4) 1 3/8-6	660	2
	340		640	–	144455	86500	54000	49000	58500	(4) 1 3/8-6	660	2

NOTE: A higher safe load may be achieved by using high-tensile cap bolts of SAE grade 5 or higher; consult SKF Applications Engineering for this variation

Pillow block housing designation					Recommended safe loads					Cap bolt information		
SDAFS	SDAFS	SDAFS	SDAFS	SDAFS	P 60°	P 90°	P 120°	P 150°	P 180°	Cap bolt (no.) size	Torque	SAE grade
					lbf					in	ft-lbs	
222		522		–	81830	49000	30500	27500	33500	(4) 7/8-9	600	8
224	320	524	620	–	95190	57000	36500	33500	41500	(4) 7/8-9	600	8
226	322	526	622	–	88510	53000	34500	32000	40000	(4) 7/8-9	600	8
232	326	532	626	–	130260	78000	49000	44000	54000	(4) 1 1/8-7	1280	8
236	330	536	630	–	141950	85000	51000	45500	54000	(4) 1 1/4-7	1820	8
238	332	538	632	–	203740	122000	75000	68000	81500	(4) 1 1/4-7	1820	8
240	334	540	634	–	238810	143000	88000	80000	95000	(4) 1 1/4-7	1820	8
	336		636	–	228790	137000	85000	76500	91500	(4) 1 3/8-6	2380	8
244	338	544	638	–	250500	150000	95000	85000	102000	(4) 1 3/8-6	2380	8
	340		640	–	228790	137000	85000	76500	93000	(4) 1 3/8-6	2380	8

Housing loads – SDAF style cast-iron

(values in pounds force)



P 60° P 90° P 120° P 150° P 180°

Pillow block designation			Recommended safe loads (class 40 cast-iron)						Cap bolt information		
SDAF	SDAF	SDAF	P 60°	P 90°	P 120°	P 150°	P 180°	P axial	Cap bolt (no.) size	Torque	SAE grade
			lbf						in	ft-lbs	
	3152	3248	294000	176000	110000	98000	118000	76500	(4) 1 1/2-6	1950	5
3060	3156	3252	408000	245000	156000	143000	176000	114000	(4) 1 1/2-6	1950	5
3064	3160	3256									
3068	3160	3256									
3072	3164	3260	442000	265000	170000	153000	186000	120000	(4) 1 3/4-5	2280	5
3076											
	3168	3264	517000	310000	200000	186000	228000	148000	(4) 1 7/8-5	2860	5
3080	3172	3268	650000	390000	245000	224000	275000	180000	(4) 1 3/4-5	2280	5
3084	3176										
3088	3180	3272	717000	430000	275000	250000	305000	198000	(4) 1 7/8-5	2860	5
3092		3276									
3096	3184	3280	1050000	630000	405000	375000	465000	302000	(4) 2-4 1/2	3440	5
30/500	3188										
30/530	3192	3284	900000	540000	345000	320000	400000	260000	(4) 2 1/4-4 1/2	5030	5
	3196	3288									

SDAF extended range pillow blocks are designed to predominantly support vertical loads directly through the housing base. In this general direction, the permissible load carrying ability of the pillow block assembly is dependent solely on the bearing. The standard engineering material for all extended range housings is class 40 cast-iron to ASTM A48B, which provides high load capability at an economical cost for most heavy industrial applications. However, if the load direction is not perpendicular to the base, engineering care should be taken to assure that the housing selection, which includes the choice of material, will provide adequate strength to assure factor of safety against fracture or yield. For these custom assemblies, SKF offers alternate cast-steel and ductile-iron materials for improved impact resistance and strength.

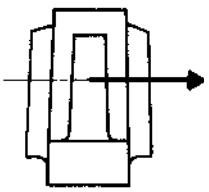
The tabulation above shows the recommended safe loads for extended range housing for nominal directions of loading. These guidelines refer to class 40 cast-iron material and have been established using accepted engineering practices with full consideration given to safety, the ultimate tensile strength of the material, and working stresses to reflect a safety factor of 5 for the pillow block casting, and a minimum factor of 2 on the cap bolts.

To determine the improved loading capabilities with alternate materials, the values in the tabulation may be multiplied by the factor 1.2 for cast-steel, or the factor 1.5 for ductile-iron. All cast-steel and ductile-iron assemblies are additionally equipped with SAE grade 8 cap bolts to fully accommodate these higher load carrying potentials.

When the application loading acts at an angle between 60° and 120°, or if the axial direction exceeds 25% of the P180° value shown in the table, it is recommended that the housing be doweled to its mounting surface. Alternatively, the mounting surface may be provided with positive stops or "shear blocks" to locate the housing in the direction of load. It is recommended that SKF Applications Engineering be contacted for complete review of load carrying abilities and mounting requirements.

Permissible axial load rating for adapter mounted pillow blocks

(values in pounds force)



The full axial load carrying ability of an adapter mounted pillow block assembly is dependent upon the friction fit between the adapter sleeve and the shaft. Provided that the bearing is properly mounted in accordance with the SKF approved mounting method, the permissible axial holding power for adapter mountings are shown in the table below.

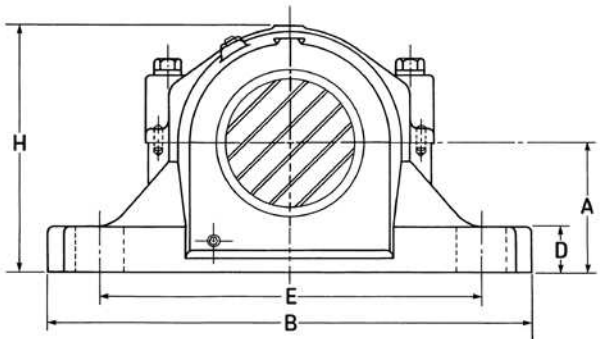
Shaft dia. S-1	**Bearing size**[2]	**Safe axial load**[1] SAF 15	SAF 225 SDAF 225	SAW 235	SAF 16	SAF 226 SDAF 226	SAF 230	SDAF extended range 230	231	232
in		lbf								
$1\frac{7}{16}$	09	570	695		765	1100				
$1\frac{11}{16}$	10	670	780		915	1340				
$1\frac{15}{16}$	11	780	930		1080	1560				
$2\frac{3}{16}$	13	1000	1370		1460	2120				
$2\frac{7}{16}$	15	1270	1560		1860	2800				
$2\frac{11}{16}$	16	1400	1760		2120	3150				
$2\frac{15}{16}$	17	1600	2080		2360	3450				
$3\frac{3}{16}$	18		2450		2600	3900				
$3\frac{7}{16}$	20		3100	4070	3150	4900				
$3\frac{15}{16}$	22		3900	5180	3750	6000				
$4\frac{3}{16}$	24		4650	6150		6950	3750			
$4\frac{7}{16}$	26		5600	7010		8150	4550			
$4\frac{15}{16}$	28		6400	8310		9650	5000			
$5\frac{3}{16}$	30		7350	9710		11000	5700			
$5\frac{7}{16}$	32		8650	11200		12200	6400			
$5\frac{15}{16}$	34		9800	12600		13700	7650			
$6\frac{7}{16}$	36		10400	13600		15300	9000			
$6\frac{15}{16}$	38		11800	15400		17000	9650			
$7\frac{3}{16}$	40		13200	17300		18600	11000			
$7\frac{15}{16}$	44		16000	21400			13400			
$8\frac{15}{16}$	48						15000			26000
$9\frac{7}{16}$	52						18300		25000	30500
$10\frac{7}{16}$	56						20000		27500	33000
$10\frac{15}{16}$	60							24000	32000	39000
$11\frac{15}{16}$	64							26000	38000	45000
$12\frac{7}{16}$	68							30500	43500	51000
$13\frac{7}{16}$	72							32500	46500	56000
$13\frac{15}{16}$	76							34500	49500	61500
15	80							40000	54000	69000
$15\frac{3}{4}$	84							42500	63000	77000
$16\frac{1}{2}$	88							46500	67000	83000
17	92							50500	74500	
18	96							53000	80000	
$18\frac{1}{2}$	/500							56000		
$19\frac{1}{2}$	/530							66000		

[1]Applies for both cast-iron and cast-steel housings
[2]Last two figures in bearing designation

Ball bearing / cylindrical mount

SAF 1300
Two-piece cast-iron housing
Self-aligning / 1300 series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF 1320**
Option	Specify
Four-bolt base	FSAF 1320
One end closed	SAF 1320Y
PosiTrac Plus seals	SAF 1320TLC
Taconite seal	SAF 1320T
Cast-steel	SAFS 1320

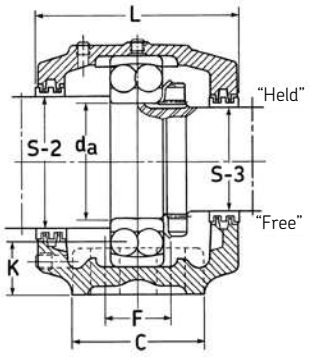


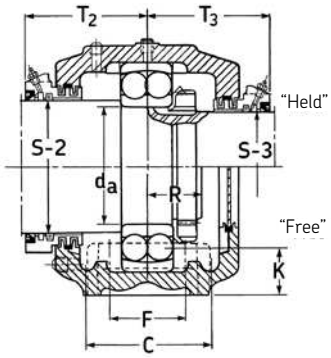
Held and free: Specify the appropriate stabilizing rings for a held unit; two required. Discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 97; for other seal speed limits see pages 347-350.

Shaft dia.			**Designations**											**Mass**
d_a	S-2	S-3	Comlete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
40	1 15/16	1 7/16	**SAF 1308**	1308E	N 08	W 08	SAF 308	SR 1608	LER 24	LER 17	EPR 3	TER 24	TER 17	14
45	2 1/8	11 1/16	**SAF 1309**	1309E	N 09	W 09	SAF 309	SR 1609	LER 28	LER 20	EPR 4	TER 28	TER 20	18
50	2 3/8	1 7/8	**SAF 1310**	1310E	N 10	W 10	SAF 310	SR 1610	LER 35	LER 23	EPR 5	TER 35	TER 23	21
55	2 9/16	2 1/16	**SAF 1311**	1311E	N 11	W 11	SAF 311	SR 1611	LER 40	LER 27	EPR 6	TER 40	TER 27	25
60	2 7/8	2 1/4	**SAF 1312**	1312E	N 12	W 12	SAF 312	SR 1612	LOR 47	LOR 33	EPR 7	TER 47	TER 33	29
65	3 1/16	2 7/16	**SAF 1313**	1313E	N 13	W 13	SAF 313	SR 1613	LOR 55	LOR 37	EPR 7	TER 55	TER 37	35
70	3 1/4	2 5/8	**SAF 1314**	1314	N 14	W 14	SAF 314	SR 1614	LOR 64	LOR 43	EPR 8	TER 64	TER 43	40
75	3 7/16	2 13/16	**SAF 1315**	1315	AN 15	W 15	SAF 315	SR 1615	LOR 79	LOR 46	EPR 8	TER 79	TER 46	44
80	3 5/8	3	**SAF 1316**	1316	AN 16	W 16	SAF 316	SR 1616	LOR 84	LOR 60	EPR 10	TER 84	TER 60	63
85	3 15/16	3 3/16	**SAF 1317**	1317	AN 17	W 17	SAF 317	SR 1617	LOR 109	LOR 188	EPR 11	TER 109	TER 188	66
90	4 1/8	3 3/8	**SAF 1318**	1318	AN 18	W 18	SAF 318	SR 1618	LOR 112	LOR 191	EPR 11	TER 112	TER 191	86
100	4 1/2	3 13/16	**SAF 1320**	1320	AN 20	W 20	SAF 320	SR 1620	LOR 118	LOR 106	EPR 12	TER 118	TER 106	97
110	4 7/8	4 3/16	**SAF 1322**	1322	AN 22	W 22	SAF 322	SR 1622	LOR 121	LOR 113	EPR 14	TER 121	TER 113	132

Sizes SAF 1308 - SAF 1310, two-bolt base only;
Sizes SAF 1311 - SAF 1317, two-or four-bolt base options;
Sizes SAF 1318 - SAF 1322, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.





Taconite seal option

Two-piece cast-iron housing
Self-aligning / 1300 series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF 1320**
Option	Specify
Four-bolt base	FSAF 1320
One end closed	SAF 1320Y
PosiTrac Plus seals	SAF 1320TLC
Taconite seal	SAF 1320T
Cast-steel	SAFS 1320

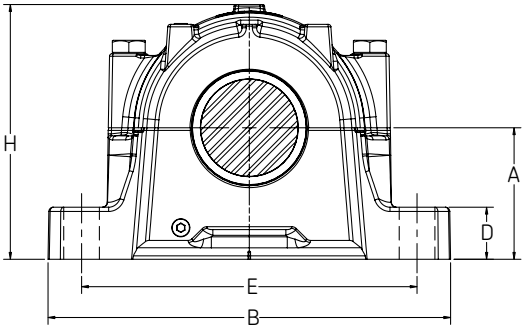
Held and free: Specify the appropriate stabilizing rings for a held unit; two required. Discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 97; for other seal speed limits see pages 347-350.

Designations Complete pillow block									**Static oil level**		**Bolts**			
	A	B	C	D	E Max	E Min	F	H	K	L	(no req'd)	R	T2	T3
	in													
SAF 1308	2 1/2	8 1/4	2 3/8	1	7	6 1/2	–	4 13/16	1 7/32	4	(2)-1/2	1 1/64	3 1/2	3 9/32
SAF 1309	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	–	5 15/16	1 5/16	4 1/4	(2)-5/8	1 1/16	3 9/16	3 9/16
SAF 1310	3	10 5/8	2 3/4	1 1/8	9	7 3/4	–	513/16	1 7/16	4 5/8	(2)-5/8	1 5/32	3 3/4	3 3/4
SAF 1311	3 1/4	11	3 1/8	1 3/16	9 1/2	8 1/8	2	6 3/16	1 1/2	5	(2)-5/8, (4)-1/2	1 3/16	3 7/8	3 7/8
SAF 1312	3 1/4	11 1/4	3 1/8	1 3/16	9 5/8	8 5/8	1 7/8	6 3/8	1 3/8	5 1/4	(2)-5/8, (4)-1/2	1 1/4	4 3/32	4 1/16
SAF 1313	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 7/16	5 5/16	(2)-3/4, (4)-5/8	1 11/32	4 1/8	4 1/8
SAF 1314	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 3/8	1 9/16	5 3/8	(2)-3/4, (4)-5/8	1 3/8	4 5/32	4 1/8
SAF 1315	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 11/16	5 7/8	(2)-3/4, (4)-5/8	1 15/32	4 1/2	4 1/2
SAF 1316	4 1/4	14 1/4	3 7/8	1 3/4	12 5/8	10 5/8	2 1/8	8 1/4	1 13/16	6 1/2	(2)-3/4, (4)-5/8	1 1/2	4 19/32	4 19/32
SAF 1317	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 3/4	1 7/8	6 3/4	(2)-7/8, (4)-3/4	1 9/16	4 11/16	4 19/32
SAF 1318	4 3/4	15 1/2	4 3/8	2	13 1/2	12	2 1/4	9 1/4	2	6 7/8	(4)-3/4	1 11/16	4 3/4	4 19/32
SAF 1320	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	2 3/16	7 3/8	(4)-3/4	1 27/32	5	5
SAF 1322	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 1/2	8 1/8	(4)-7/8	1 15/16	5 1/4	5 3/8

Ball bearing / adapter mount

SAF 1500
Two-piece cast-iron housing
Self-aligning / 1200 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	SAF 1515
Option	Specify
Four-bolt base	FSAF 1515
One end closed	SAF 1515Y
PosiTrac Plus seals	SAF 1515TLC
Taconite seals	SAF 1515T
Optional shaft size	SAF 1515 x $2^{1}/_{2}$
Cast-steel	SAFS 1515



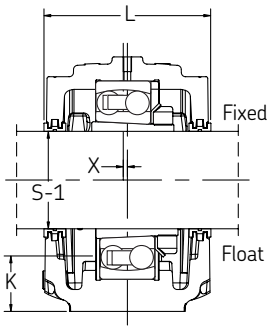
Held and free: Specify the appropriate stabilizing rings for a held unit; two required. Discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 96; for other seal speed limits see pages 347-350.

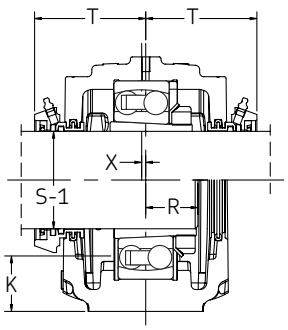
Shaft dia.		Designations								Mass
S-1		Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
Standard	Optional*									
in										lbs
$1^{3}/_{16}$	–	**SAF 1507**	1207 EK	SNW 7	SAF 507	(1) SR 7-6	LER 14	EPR 2	TER 14	8
$1^{7}/_{16}$	$1^{3}/_{8}$, $1^{1}/_{2}$	**SAF 1509**	1209 EK	SNW 9	SAF 509	(1) SR 9-0	LER 17	EPR 3	TER 17	11
$1^{11}/_{16}$	$1^{5}/_{8}$, $1^{3}/_{4}$	**SAF 1510**	1210 EK	SNW 10	SAF 510	(1) SR 10-8	LER 20	EPR 4	TER 20	12
$1^{15}/_{16}$	$1^{7}/_{8}$, 2	**SAF 1511**	1211 EK	SNW 11	SAF 511	(1) SR 11-9	LER 24	EPR 5	TER 24	16
$2^{3}/_{16}$	$2^{1}/_{8}$, $2^{1}/_{4}$	**SAF 1513**	1213 EK	SNW 13	SAF 513	(2) SR 13-0	LER 29	EPR 6	TER 29	22
$2^{7}/_{16}$	$2^{3}/_{8}$, $2^{1}/_{2}$	**SAF 1515**	1215 K	SNW 15	SAF 515	(2) SR 15-0	LOR 37	EPR 7	TER 37	27
$2^{11}/_{16}$	$2^{5}/_{8}$, $2^{3}/_{4}$	**SAF 1516**	1216 K	SNW 16	SAF 516	(2) SR 1516	LOR 44	EPR 8	TER 44	36
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SAF 1517**	1217 K	SNW 17	SAF 517	(2) SR 1517	LOR 53	EPR 9	TER 53	37
$3^{3}/_{16}$	$3^{1}/_{16}$, $3^{1}/_{8}$, $3^{1}/_{4}$	**SAF 1518**	1218 K	SNW 18	SAF 518	(2) SR 1518	LOR 188	EPR 11	TER 188	45
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAF 1520**	1220 K	SNW 20	SAF 520	(2) SR 1520	LOR 102	EPR 12	TER 102	59
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SAF 1522**	1222 K	SNW 22	SAF 522	(2) SR 1522	LOR 109	EPR 13	TER 109	69

*Requires different adapter sleeve and seals.

Sizes SAF 1507 - SAF 1513, two-bolt base only;
Sizes SAF 1515 - SAF 1520, two-or four-bolt base options;
Size SAF 1522, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.





Taconite seal option

Ball bearing / adapter mount

SAF 1500
Two-piece cast-iron housing
Self-aligning / 1200 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF 1515**
Option	Specify
Four-bolt base	FSAF 1515
One end closed	SAF 1515Y
PosiTrac Plus seals	SAF 1515TLC
Taconite seals	SAF 1515
Optional shaft size	SAF 1515 x $2^{3}/_{8}$
Cast-steel	SAFS 1515

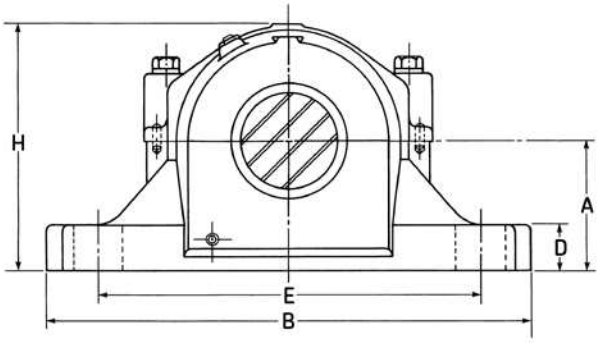
Held and free: Specify the appropriate stabilizing rings for a held unit; two required. Discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 96; for other seal speed limits see pages 347-350.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in													
SAF 1507	2	$7^{1}/_{2}$	2	$^{13}/_{16}$	$6^{1}/_{8}$	$5^{5}/_{8}$	–	$3^{3}/_{4}$	$^{7}/_{8}$	$3^{3}/_{16}$	$^{3}/_{16}$	(2)-$^{1}/_{2}$	$^{13}/_{16}$	$3^{1}/_{32}$
SAF 1509	$2^{1}/_{4}$	$8^{1}/_{4}$	$2^{3}/_{8}$	$^{13}/_{16}$	7	$6^{1}/_{4}$	–	$4^{3}/_{8}$	1	$3^{5}/_{8}$	$^{3}/_{16}$	(2)-$^{1}/_{2}$	$^{15}/_{16}$	$3^{1}/_{32}$
SAF 1510	$2^{1}/_{2}$	$8^{1}/_{4}$	$2^{3}/_{8}$	$^{15}/_{16}$	7	$6^{1}/_{2}$	–	$4^{3}/_{4}$	$1^{1}/_{8}$	$3^{5}/_{8}$	$^{3}/_{16}$	(2)-$^{1}/_{2}$	$1^{1}/_{64}$	$3^{1}/_{4}$
SAF 1511	$2^{3}/_{4}$	$9^{5}/_{8}$	$2^{3}/_{4}$	$^{15}/_{16}$	$7^{7}/_{8}$	$7^{3}/_{8}$	–	$5^{1}/_{32}$	$1^{1}/_{4}$	$3^{7}/_{8}$	$^{3}/_{16}$	(2)-$^{5}/_{8}$	$1^{1}/_{32}$	$3^{3}/_{8}$
SAF 1513	3	11	$3^{1}/_{8}$	1	$9^{1}/_{2}$	$8^{1}/_{8}$	–	$5^{21}/_{32}$	$1^{3}/_{16}$	$4^{1}/_{2}$	–	(2)-$^{5}/_{8}$	$1^{9}/_{64}$	$3^{5}/_{8}$
SAF 1515	$3^{1}/_{4}$	$11^{1}/_{4}$	$3^{1}/_{8}$	$1^{1}/_{8}$	$9^{5}/_{8}$	$8^{5}/_{8}$	$1^{7}/_{8}$	$6^{1}/_{8}$	$1^{1}/_{4}$	$4^{11}/_{16}$	–	(2)-$^{5}/_{8}$, (4)-$^{1}/_{2}$	$1^{7}/_{32}$	$3^{13}/_{16}$
SAF 1516	$3^{1}/_{2}$	13	$3^{1}/_{2}$	$1^{1}/_{4}$	11	$9^{5}/_{8}$	$2^{1}/_{8}$	$6^{19}/_{32}$	$1^{5}/_{16}$	$5^{5}/_{16}$	–	(2)-$^{3}/_{4}$, (4)-$^{5}/_{8}$	$1^{1}/_{4}$	$4^{1}/_{8}$
SAF 1517	$3^{3}/_{4}$	13	$3^{1}/_{2}$	$1^{1}/_{4}$	11	$9^{7}/_{8}$	$2^{1}/_{8}$	$7^{1}/_{8}$	$1^{7}/_{16}$	5	–	(2)-$^{3}/_{4}$, (4)-$^{5}/_{8}$	$1^{5}/_{16}$	$3^{29}/_{32}$
SAF 1518	4	$13^{3}/_{4}$	$3^{7}/_{8}$	$1^{5}/_{8}$	$11^{5}/_{8}$	$10^{3}/_{8}$	$2^{1}/_{8}$	$7^{9}/_{16}$	$1^{1}/_{2}$	$5^{7}/_{8}$	–	(2)-$^{3}/_{4}$, (4)-$^{5}/_{8}$	$1^{3}/_{4}$	$4^{1}/_{16}$
SAF 1520	$4^{1}/_{2}$	$15^{1}/_{4}$	$4^{3}/_{8}$	$1^{3}/_{4}$	$13^{1}/_{8}$	$11^{5}/_{8}$	$2^{3}/_{8}$	$8^{15}/_{32}$	$1^{21}/_{32}$	$6^{1}/_{8}$	–	(2)-$^{7}/_{8}$, (4)-$^{3}/_{4}$	$1^{59}/_{64}$	$4^{3}/_{8}$
SAF 1522	$4^{15}/_{16}$	$16^{1}/_{2}$	$4^{3}/_{4}$	2	$14^{1}/_{2}$	$12^{5}/_{8}$	$2^{3}/_{4}$	$9^{11}/_{32}$	$1^{25}/_{32}$	$6^{1}/_{2}$	–	(4)-$^{3}/_{4}$	$2^{1}/_{8}$	$4^{9}/_{16}$

Ball bearing / adapter mount

SAF 1600
Two-piece cast-iron housing
Self-aligning / 1300 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	SAF 1615
Option	Specify
Four-bolt base	FSAF 1615
One end closed	SAF 1615Y
PosiTrac Plus seal	SAF 1615TLC
Taconite seals	SAF 1615T
Optional shaft size	SAF 1615 x 2
Cast-steel	SAFS 1615



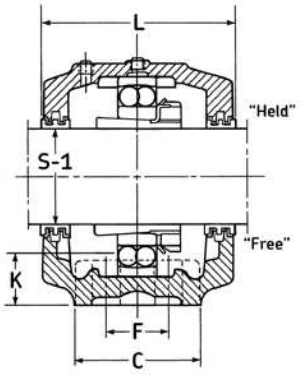
Held and free: Specify the appropriate stabilizing rings for a held unit; two required. Discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 97; for other seal speed limits see pages 347-350.

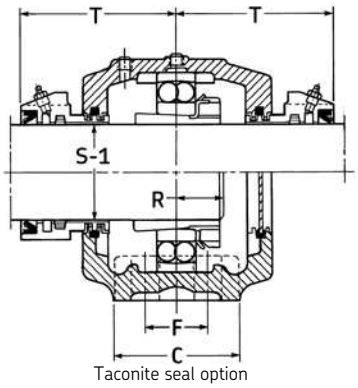
Shaft dia.		Designations								Mass
S-1 Standard	Optional*	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$1^{7}/_{16}$	$1^{3}/_{8}$, $1^{1}/_{2}$	**SAF 1609**	1309 EK	SNW 9	SAF 609	SR 1609	LER 17	EPR 3	TER 17	19
$1^{11}/_{16}$	$1^{5}/_{8}$, $1^{3}/_{4}$	**SAF 1610**	1310 EK	SNW 10	SAF 610	SR 1610	LER 20	EPR 4	TER 20	22
$1^{15}/_{16}$	$1^{7}/_{8}$, 2	**SAF 1611**	1311 EK	SNW 11	SAF 611	SR 1611	LER 24	EPR 5	TER 24	27
$2^{3}/_{16}$	$2^{1}/_{8}$, $2^{1}/_{4}$	**SAF 1613**	1313 EK	SNW 13	SAF 613	SR 1613	LOR 32	EPR 7	TER 32	38
$2^{7}/_{16}$	$2^{3}/_{8}$, $2^{1}/_{2}$	**SAF 1615**	1315 K	SNW 15	SAF 615	SR 1615	LOR 37	EPR 7	TER 37	47
$2^{11}/_{16}$	$2^{5}/_{8}$, $2^{3}/_{4}$	**SAF 1616**	1316 K	SNW 16	SAF 616	SR 1616	LOR 44	EPR 8	TER 44	66
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SAF 1617**	1317 K	SNW 17	SAF 617	SR 1617	LOR 184	EPR 10	TER 184	69
$3^{3}/_{16}$	$3^{1}/_{16}$, $3^{1}/_{8}$, $3^{1}/_{4}$	**SAF 1618**	1318 K	SNW 18	SAF 618	SR 1618	LOR 188	EPR 11	TER 188	91
$3^{7}/_{16}$	$3^{15}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAF 1620**	1320 K	SNW 20	SAF 620	SR 1620	LOR 102	EPR 12	TER 102	101
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SAF 1622**	1322 K	SNW 22	SAF 622	SR 1622	LOR 109	EPR 13	TER 109	138

*Requires different adapter sleeve and seals.

Sizes SAF 1609 - SAF 1610, two-bolt base only;
Sizes SAF 1611 - SAF 1617, two-or four-bolt base options;
Sizes SAF 1618 - SAF 1620, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.





Taconite seal option

Ball bearing / adapter mount

SAF 1600
Two-piece cast-iron housing
Self-aligning / 1300 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF 1615**
Option	Specify
Four-bolt base	FSAF 1615
One end closed	SAF 1615Y
PosiTrac Plus seal	SAF 1615TLC
Taconite seals	SAF 1615T
Optional shaft size	SAF 1615 x 2
Cast-steel	SAFS 1615

Held and free: Specify the appropriate stabilizing rings for a held unit; two required. Discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 97; for other seal speed limits see pages 347-350.

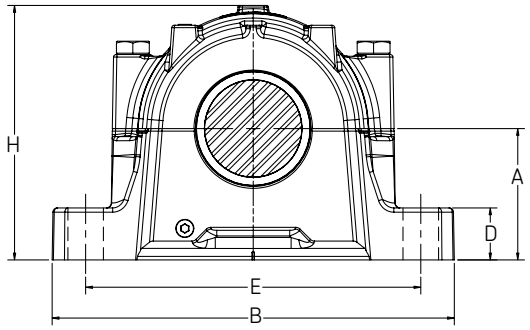
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	**Bolts** (No. req'd)	R	T
	in												
SAF 1609	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	–	5 5/16	1 5/16	4 1/4	(2)-5/8	1 1/16	3 3/8
SAF 1610	3	10 5/8	2 3/4	1 1/8	9	7 3/4	–	5 13/16	1 7/16	4 5/8	(2)-5/8	1 5/32	3 3/4
SAF 1611	3 1/4	11	3 1/8	1 3/16	9 1/2	8 1/8	2	6 3/16	1 1/2	4 7/8	(2)-5/8, (4)-1/2	1 3/16	3 7/8
SAF 1613	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 7/16	5 5/16	(2)3/4, (4)-5/8	1 11/32	4 1/8
SAF 1615	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 11/16	5 7/8	(2)-)3/4, (4)-5/8	1 15/32	4 13/32
SAF 1616	4 1/4	14 1/4	3 7/8	1 3/4	12 5/8	10 5/8	2 1/8	8 1/4	1 13/16	6 1/2	(2)-)3/4, (4)-5/8	1 1/2	4 19/32
SAF 1617	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 3/4	1 7/8	6 3/4	(2)-7/8, (4)-3/4	1 9/16	4 9/16
SAF 1618	4 3/4	15 1/2	4 3/8	2	13 1/2	12	2 1/4	9 3/16	2	6 7/8	(4)-3/4	1 11/16	4 9/16
SAF 1620	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	2 3/16	7 5/16	(4)-)3/4	1 27/32	5
SAF 1622	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 1/2	8 1/8	(4)-7/8	1 15/16	5 3/8

Spherical roller / cylindrical mount

SAF 22200

Two-piece cast-iron housing
Self-aligning / 22200 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	SAF 22215
Option	Specify
Four-bolt base	FSAF 22215
One end closed	SAF 22215Y
PosiTrac Plus seal	SAF 22215TLC
Taconite seals	SAF 22215T
Cast-steel	SAFS 22215

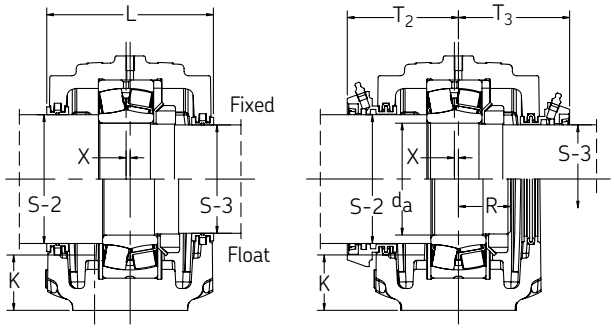


Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 347-350.

Shaft dia.			Designations											Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
65	3 1/16	2 7/16	**SAF 22213**	22213 E	N 13	W 13	SAF 213	SR 13-0	LOR 55	LOR 37	EPR 7	TER 55	TER 37	22
75	3 7/16	2 13/16	**SAF 22215**	22215 E	AN 15	W 15	SAF 215	SR 15-0	LOR 79	LOR 46	EPR 8	TER 79	TER 46	27
80	3 5/8	3	**SAF 22216**	22216 E	AN 16	W 16	SAF 216	SR 16-13	LOR 82	LOR 54	EPR 9	TER 82	TER 54	34
85	3 15/16	3 3/16	**SAF 22217**	22217 E	AN 17	W 17	SAF 217	SR 17-14	LOR 89	LOR 63	EPR 9	TER 89	TER 63	35
90	4 1/8	3 3/8	**SAF 22218**	22218 E	AN 18	W 18	SAF 218	SR 18-15	LOR 112	LOR 191	EPR 11	TER 112	TER 191	44
100	4 1/2	3 13/16	**SAF 22220**	22220 E	AN 20	W 20	SAF 220	SR 20-17	LOR 118	LOR 106	EPR 12	TER 118	TER 106	75
110	4 7/8	4 3/16	**SAF 22222**	22222 E	AN 22	W 22	SAF 222	SR 22-19	LOR 121	LOR 113	EPR 14	TER 121	TER 113	68
120	5 5/16	4 9/16	**SAF 22224**	22224 E	AN 24	W 24	SAF 224	SR 24-20	LOR 127	LOR 119	EPR 15	TER 127	TER 119	97
130	5 7/8	4 15/16	**SAF 22226**	22226 E	AN 26	W 26	SAF 226	SR 26-0	LOR 136	LOR 122	EPR 27	TER 136	TER 122	134
140	6 1/4	5 5/16	**SAF 22228**	22228 CC/W33	AN 28	W 28	SAF 228	SR 28-0	LOR 144	LOR 127	EPR 16	TER 144	TER 127	141
150	6 5/8	5 3/4	**SAF 22230**	22230 CC/W33	AN 30	W 30	SAF 230	SR 30-0	LOR 151	LOR 134	EPR 17	TER 151	TER 134	181
160	7	6 1/16	**SAF 22232**	22232 CC/W33	AN 32	W 32	SAF 232	SR 32-0	LOR 156	LOR 142	EPR 18	TER 156	TER 142	199
170	7 7/16	6 7/16	**SAF 22234**	22234 CC/W33	AN 34	W 34	SAF 234	SR 34-0	LOR 161	LOR 148	EPR 20	TER 161	TER 148	263
180	7 13/16	6 7/8	**SAF 22236**	22236 CC/W33	AN 36	W 36	SAF 236	SR 36-30	LOR 165	LOR 154	EPR 21	TER 165	TER 154	286
190	8 3/8	7 1/4	**SAF 22238**	22238 CC/W33	AN 38	W 38	SAF 238	SR 38-32	LOR 171	LOR 160	EPR 21	TER 171	TER 160	356
200	8 3/4	7 5/8	**SAF 22240**	22240 CC/W33	AN 40	W 40	SAF 240	SR 40-34	LOR 175	LOR 164	EPR 22	TER 175	TER 164	408
220	9 9/16	8 5/16	**SAF 22244**	22244 CC/W33	N 44	W 44	SAF 244	SR 44-38	LOR 179	LOR 170	EPR 24	TER 179	TER 170	535

Size SAF 22213, two-bolt base only;
Sizes SAF 22215 - SAF 22220, two-or four-bolt base options;
Sizes SAF 22222 - SAF 22244, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.



Taconite seal option

Spherical roller / cylindrical mount

SAF 22200
Two-piece cast-iron housing
Self-aligning / 22200 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAF 22215**
Option	Specify
Four-Bolt Base	FSAF 22215
One end closed	SAF 22215Y
PosiTrac Plus seal	SAF 22215TLC
Taconite seals	SAF 22215T
Cast-steel	SAFS 22215

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 347-350.

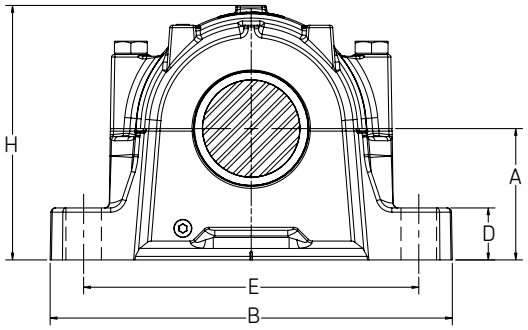
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T_2	T_3
	in														
SAF 22213	3	11	3 1/8	1	9 1/2	8 1/8	–	5 21/32	–	4 1/2	3/16	(2)-5/8	1 1/4	3 3/4	3 3/4
SAF 22215	3 1/4	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 1/8	–	4 11/16	3/16	(2)-5/8, (4)-1/2	1 9/32	3 7/8	3 7/8
SAF 22216	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 1/4	5 5/16	3/16	(2)-3/4, (4)-5/8	1 15/32	4 1/8	4 3/32
SAF 22217	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 1/8	1 3/8	5	3/16	(2)-3/4, (4)-5/8	1 9/16	3 29/32	3 29/32
SAF 22218	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 1/2	5 7/8	3/16	(2)-3/4, (4)-5/8	1 3/4	4 3/16	4 3/32
SAF 22220	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 15/32	1 21/32	6 1/8	3/16	(2)-7/8, (4)-3/4	1 59/64	4 5/16	4 5/16
SAF 22222	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 11/32	1 25/32	6 1/2	3/16	(4)-3/4	2 1/8	4 1/2	4 9/16
SAF 22224	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	1 27/32	7 3/8	3/16	(4)-3/4	2 9/32	5	5
SAF 22226	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 11/32	8 1/8	3/16	(4)-7/8	2 15/32	5 1/4	5 5/16
SAF 22228	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	11 3/4	2 1/32	7 5/8	3/16	(4)-1	2 39/64	5 1/8	5 1/8
SAF 22230	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 1/2	2	8 3/8	3/16	(4)-1	2 49/64	5 1/2	5 1/2
SAF 22232	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 5/16	2 1/16	8 3/4	3/16	(4)-1	2 31/32	5 11/16	5 11/16
SAF 22234	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 5/32	9 5/8	3/16	(4)-1	3 1/8	6 3/16	6
SAF 22236	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	2 3/8	10	3/16	(4)-1	3 9/64	6 1/4	6 1/4
SAF 22238	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	2 7/16	10 3/4	3/16	(4)-1 1/4	3 19/64	7 7/16	6 13/16
SAF 22240	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 15/32	11 1/4	3/16	(4)-1 1/4	3 1/2	7 11/16	7 1/16
SAF 22244	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	3 1/8	12	3/16	(4)-1 1/2	3 5/8	8	8 1/16

Spherical roller / cylindrical mount

SAF 22300

Two-piece cast-iron housing
Self-aligning / 22300 series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

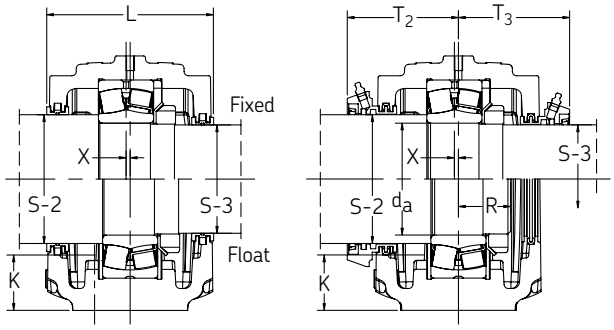
How to order	SAF 22315
Option	Specify
Four-bolt base	FSAF 22315
One end closed	SAF 22315Y
PosiTrac Plus seal	SAF 22315TLC
Taconite seals	SAF 22315T
Cast-steel	SAFS 22315



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 351; for bearing information see page 164; for other seal speed limits see pages 339-342.

Shaft dia.			Designations											Mass
			Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
d_a	S-2	S-3												
mm	in													lbs
40	$1^{15}/_{16}$	$1^{7}/_{16}$	**SAF 22308**	22308 E	N 08	W 08	SAF 308	SR 10-8	LER 24	LER 17	EPR 3	TER 24	TER 17	15
45	$2^{1}/_{8}$	$1^{11}/_{16}$	**SAF 22309**	22309 E	N 09	W 09	SAF 309	SR 11-9	LER 28	LER 20	EPR 4	TER 28	TER 20	19
50	$2^{3}/_{8}$	$1^{7}/_{8}$	**SAF 22310**	22310 E	N 10	W 10	SAF 310	SR 0-10	LER 35	LER 23	EPR 5	TER 35	TER 23	22
55	$2^{9}/_{16}$	$2^{1}/_{16}$	**SAF 22311**	22311 E	N 11	W 11	SAF 311	SR 13-11	LER 40	LER 27	EPR 6	TER 40	TER 27	27
60	$2^{7}/_{8}$	$2^{1}/_{4}$	**SAF 22312**	22312 E	N 12	W 12	SAF 312	SR 15-12	LOR 47	LOR 33	EPR 7	TER 47	TER 33	31
65	$3^{1}/_{16}$	$2^{7}/_{16}$	**SAF 22313**	22313 E	N 13	W 13	SAF 313	SR 16-13	LOR 55	LOR 37	EPR 7	TER 55	TER 37	38
70	$3^{1}/_{4}$	$2^{5}/_{8}$	**SAF 22314**	22314 E	N 14	W 14	SAF 314	SR 17-14	LOR 64	LOR 43	EPR 8	TER 64	TER 43	42
75	$3^{7}/_{16}$	$2^{13}/_{16}$	**SAF 22315**	22315 E	AN 15	W 15	SAF 315	SR 18-15	LOR 79	LOR 46	EPR 8	TER 79	TER 46	48
80	$3^{5}/_{8}$	3	**SAF 22316**	22316 E	AN 16	W 16	SAF 316	SR 19-16	LOR 84	LOR 60	EPR 10	TER 84	TER 60	67
85	$3^{15}/_{16}$	$3^{3}/_{16}$	**SAF 22317**	22317 E	AN 17	W 17	SAF 317	SR 20-17	LOR 109	LOR 188	EPR 11	TER 109	TER 188	71
90	$4^{1}/_{8}$	$3^{3}/_{8}$	**SAF 22318**	22318 E	AN 18	W 18	SAF 318	SR 21-18	LOR 112	LOR 191	EPR 11	TER 112	TER 191	92
100	$4^{1}/_{2}$	$3^{13}/_{16}$	**SAF 22320**	22320 E	AN 20	W 20	SAF 320	SR 24-20	LOR 118	LOR 106	EPR 12	TER 118	TER 106	107
110	$4^{7}/_{8}$	$4^{3}/_{16}$	**SAF 22322**	22322 E	AN 22	W 22	SAF 322	SR 0-22	LOR 121	LOR 113	EPR 14	TER 121	TER 113	145
120	$5^{5}/_{16}$	$4^{9}/_{16}$	**SAF 22324**	22324 CC/W33	AN 24	W 24	SAF 324	SR 0-24	LOR 127	LOR 119	EPR 15	TER 127	TER 119	201
130	$5^{7}/_{8}$	$4^{15}/_{16}$	**SAF 22326**	22326 CC/W33	AN 26	W 26	SAF 326	SR 0-26	LOR 136	LOR 122	EPR 27	TER 136	TER 122	221
140	$6^{1}/_{4}$	$5^{5}/_{16}$	**SAF 22328**	22328 CC/W33	AN 28	W 28	SAF 328	SR 0-28	LOR 144	LOR 127	EPR 16	TER 144	TER 127	283
150	$6^{5}/_{8}$	$5^{3}/_{4}$	**SAF 22330**	22330 CC/W33	AN 30	W 30	SAF 330	SR 36-30	LOR 151	LOR 134	EPR 17	TER 151	TER 134	313
160	7	$6^{1}/_{16}$	**SAF 22332**	22332 CC/W33	AN 32	W 32	SAF 332	SR 38-32	LOR 156	LOR 142	EPR 18	TER 156	TER 142	385
170	$7^{7}/_{16}$	$6^{7}/_{16}$	**SAF 22334**	22334 CC/W33	AN 34	W 34	SAF 334	SR 40-34	LOR 161	LOR 148	EPR 19	TER 161	TER 148	449
180	$8^{3}/_{8}$	$7^{1}/_{4}$	**SAF 22338**	22338 CC/W33	AN 38	W 38	SAF 338	SR 44-38	LOR 171	LOR 160	EPR 21	TER 171	TER 160	589
200	$8^{3}/_{4}$	$7^{5}/_{8}$	**SAF 22340**	22340 CC/W33	AN 40	W 40	SAF 340	SR 0-40	LOR 175	LOR 164	EPR 22	TER 175	TER 164	809

Sizes SAF 22308 - SAF 22310, two-bolt base only; sizes SAF 22311 - SAF 22317, two-or four-bolt base options; sizes SAF 22318 - SAF 22340, four-bolt base only.
Optional internal radial clearances (e.g. C3) are available upon request.



Taconite seal option

Spherical roller / cylindrical mount

SAF 22300
Two-piece cast-iron housing
Self-aligning / 22300 series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF 22315**
Option	Specify
Four-bolt base	FSAF 22315
One end closed	SAF 22315Y
PosiTrac Plus seal	SAF 22315TLC
Taconite seals	SAF 22315T
Cast-steel	SAFS 22315

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 351; for bearing information see page 164; for other seal speed limits see pages 339-342.

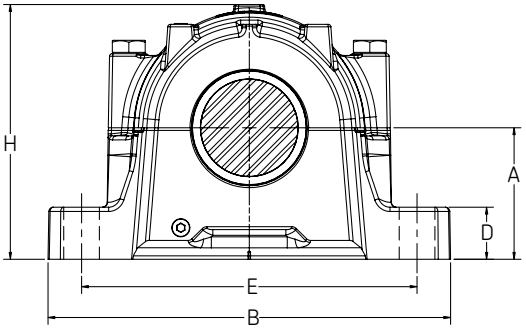
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T_2	T_3
	in														
SAF 22308	2 1/2	8 1/4	2 3/8	1	7	6 1/2	–	4 13/16	1 3/16	4	3/16	(2)-1/2	1 5/32	3 1/2	3 9/32
SAF 22309	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	–	5 5/16	1 9/32	4 1/4	3/16	(2)-5/8	1 5/16	3 9/16	3 9/16
SAF 22310	3	10 5/8	2 3/4	1 1/8	9	7 3/4	–	5 13/16	1 3/8	4 5/8	3/16	(2)-5/8	1 7/16	3 3/4	3 3/4
SAF 22311	3 1/4	11	3 1/8	1 3/16	9 1/2	8 1/8	2	6 3/16	1 7/16	5	3/16	(2)-5/8, (4)-1/2	1 1/2	3 7/8	3 7/8
SAF 22312	3 1/4	11 1/4	3 1/8	1 3/16	9 5/8	8 5/8	1 7/8	6 3/8	1 5/16	5 1/4	3/16	(2)-5/8, (4)-1/2	1 9/16	4 3/32	4 1/16
SAF 22313	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 13/32	5 5/16	3/16	(2)-3/4, (4)-5/8	1 11/16	4 1/8	4 1/8
SAF 22314	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 3/8	1 15/32	5 3/8	3/16	(2)-3/4, (4)-5/8	1 11/16	4 5/32	4 1/8
SAF 22315	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 19/32	5 7/8	3/16	(2)-3/4, (4)-5/8	1 7/8	4 1/2	4 9/16
SAF 22316	4 1/4	14 1/4	3 7/8	1 5/16	12 5/8	10 5/8	2 1/8	8 1/4	1 11/16	6 1/2	3/16	(2)-3/4, (4)-5/8	1 15/16	4 19/32	4 19/32
SAF 22317	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 3/4	1 3/4	6 3/4	3/16	(2)-7/8, (4)-3/4	2 1/16	4 11/16	4 19/32
SAF 22318	4 3/4	15 1/2	4 3/8	2	13 1/2	12	2 1/4	9 3/16	1 7/8	6 7/8	3/16	(4)-3/4	2 3/16	4 3/4	4 19/32
SAF 22320	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	2 1/32	7 3/8	3/16	(4)-3/4	2 7/16	5	5
SAF 22322	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 13/32	8 1/8	3/16	(4)-7/8,	2 5/8	5 1/4	5 3/8
SAF 22324	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 1/2	2 3/8	8 3/8	3/16	(4)-1	2 13/16	5 1/2	5 1/2
SAF 22326	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 5/16	2 7/16	8 3/4	3/16	(4)-1	3	5 11/16	5 11/16
SAF 22328	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 9/16	9 3/8	3/16	(4)-1	3 1/4	6 1/16	6 1/16
SAF 22330	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	2 5/8	9 3/4	3/16	(4)-1	3 7/16	6 1/4	6 1/4
SAF 22332	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	2 11/16	10 3/4	3/16	(4)-1 1/4	3 5/8	6 11/16	6 11/16
SAF 22334	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 3/4	11 1/4	3/16	(4)-1/4	3 3/4	7 1/16	6 7/8
SAF 22338	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	3 3/8	12	3/16	(4)-1 1/2	4 1/16	8 1/16	7 7/16
SAF 22340	9 7/8	34 1/4	9	4	29 1/2	26 1/4	5 1/2	19 1/2	3 7/16	12 3/8	3/16	(4)-1 1/2	4 1/8	8 7/32	7 19/32

Spherical roller / adapter mount

SAF 22500

Two-piece cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

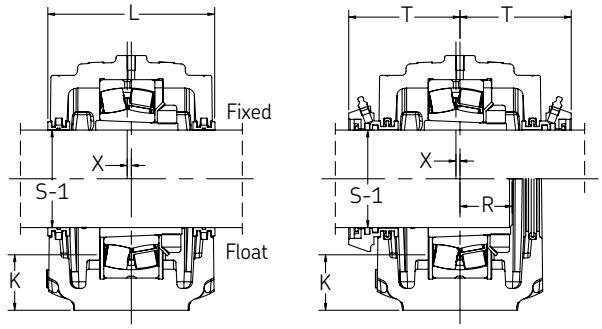
How to order	SAF 22515
Option	Specify
Four-bolt base	FSAF 22515
One end closed	SAF 22515Y
PosiTrac Plus seal	SAF 22515TLC
Taconite seals	SAF 22515T
Optional shaft size	SAF 22515 x $2^{1}/_{2}$
Cast-steel	SAFS 22515



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 347-350.

Shaft dia.		Designations								Mass
S-1 Standard	Optional*	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$1^{3}/_{16}$	–	**SAF 22507**	22207 EK	SNW 7	SAF 507	36053-6	LER 14	EPR 2	TER 14	8
$1^{7}/_{16}$	$1^{3}/_{8}$, $1^{1}/_{2}$	**SAF 22509**	22209 EK	SNW 9	SAF 509	SR 9-9	LER 17	EPR 3	TER 17	12
$1^{11}/_{16}$	$1^{5}/_{8}$, $1^{3}/_{4}$	**SAF 22510**	22210 EK	SNW 10	SAF 510	SR 10-0	LER 20	EPR 4	TER 20	13
$1^{15}/_{16}$	$1^{7}/_{8}$, 2	**SAF 22511**	22211 EK	SNW 11	SAF 511	SR 11-0	LER 24	EPR 5	TER 24	16
$2^{3}/_{16}$	$2^{1}/_{8}$, $2^{1}/_{4}$	**SAF 22513**	22213 EK	SNW 13	SAF 513	SR 13-0	LER 29	EPR 6	TER 29	23
$2^{7}/_{16}$	$2^{3}/_{8}$, $2^{1}/_{2}$	**SAF 22515**	22215 EK	SNW 15	SAF 515	SR 15-0	LOR 37	EPR 7	TER 37	28
$2^{11}/_{16}$	$2^{5}/_{8}$, $2^{3}/_{4}$	**SAF 22516**	22216 EK	SNW 16	SAF 516	SR 16-13	LOR 44	EPR 8	TER 44	37
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SAF 22517**	22217 EK	SNW 17	SAF 517	SR 17-14	LOR 53	EPR 9	TER 53	38
$3^{3}/_{16}$	$3^{1}/_{16}$, $3^{1}/_{8}$, $3^{1}/_{4}$	**SAF 22518**	22218 EK	SNW 18	SAF 518	SR 18-15	LOR 188	EPR 11	TER 188	47
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAF 22520**	22220 EK	SNW 20	SAF 520	SR 20-17	LOR 102	EPR 12	TER 102	62
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SAF 22522**	22222 EK	SNW 22	SAF 522	SR 22-19	LOR 109	EPR 13	TER 109	73
$4^{3}/_{16}$	$4^{1}/_{16}$, $4^{1}/_{8}$, $4^{1}/_{4}$	**SAF 22524**	22224 EK	SNW 24	SAF 524	SR 24-20	LOR 113	EPR 14	TER 113	104
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SAF 22526**	22226 EK	SNW 26	SAF 526	SR 26-0	LOR 117	EPR 15	TER 117	144
$4^{15}/_{16}$	$4^{13}/_{16}$, $4^{7}/_{8}$, 5	**SAF 22528**	22228 CCK/W33	SNW 28	SAF 528	SR 28-0	LOR 122	EPR 27	TER 122	153
$5^{3}/_{16}$	$5^{1}/_{8}$, $5^{1}/_{4}$	**SAF 22530**	22230 CCK/W33	SNW 30	SAF 530	SR 30-0	LOR 125	EPR 16	TER 125	199
$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SAF 22532**	22232 CCK/W33	SNW 32	SAF 532	SR 32-0	LOR 130	EPR 16	TER 130	212
$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SAF 22534**	22234 CCK/W33	SNW 34	SAF 534	SR 34-0	LOR 140	EPR 18	TER 140	276
$6^{7}/_{16}$	$6^{5}/_{16}$, $6^{3}/_{8}$, $6^{1}/_{2}$	**SAF 22536**	22236 CCK/W33	SNW 36	SAF 536	SR 36-30	LOR 148	EPR 19	TER 148	301
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SAF 22538**	22238 CCK/W33	SNW 38	SAF 538	SR 38-32	LOR 155	EPR 21	TER 155	374
$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SAF 22540**	22240 CCK/W33	SNW 40	SAF 540	SR 40-34	LOR 159	EPR 21	TER 159	443
$7^{15}/_{16}$	$7^{13}/_{16}$, $7^{7}/_{8}$, 8	**SAF 22544**	22244 CCK/W33	SNW 44	SAF 544	SR 44-38	LOR 167	EPR 23	TER 167	577

*Optional shaft sizes require different adapter sleeve and seals. ***Optional internal radial clearances (e.g. C3) are available upon request.***
Sizes SAF 22507 - SAF 22513, two-bolt base only; sizes SAF 22515 - SAF 22520, two-or four-bolt base options; sizes SAF 22522 - SAF 22544, four-bolt base only.



Taconite seal option

Spherical roller / adapter mount

SAF 22500
Two-piece cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF 22515**
Option	Specify
Four-bolt base	FSAF 22515
One end closed	SAF 22515Y
PosiTrac Plus seal	SAF 22515TLC
Taconite seals	SAF 22515T
Optional shaft size	SAF 22515 x 2 1/2
Cast-steel	SAFS 22515

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 347-350.

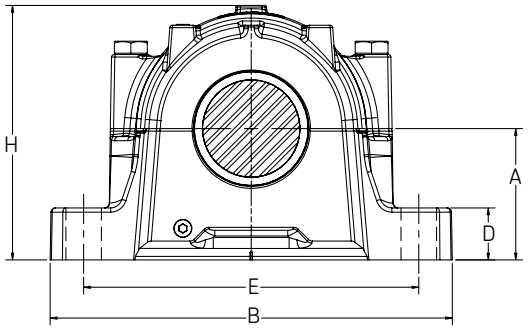
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in													
SAF 22507	2	7 1/2	2	13/16	6 1/8	5 5/8	–	3 3/4	7/8	3 3/16	3/32	(2)-1/2	13/16	3 1/32
SAF 22509	2 1/4	8 1/4	2 3/8	13/16	7	6 1/4	–	4 3/8	31/32	3 5/8	7/64	(2)-1/2	1 3/32	3 1/32
SAF 22510	2 1/2	8 1/4	2 3/8	15/16	7	6 1/2	–	4 3/4	1 3/32	3 5/8	9/64	(2)-1/2	1 5/32	3 1/4
SAF 22511	2 3/4	9 5/8	2 3/4	15/16	7 7/8	7 3/8	–	5 1/32	1 3/16	3 7/8	7/64	(2)-5/8	1 13/64	3 3/8
SAF 22513	3	11	3 1/8	1	9 1/2	8 1/8	–	5 21/32	1 3/32	4 1/2	5/32	(2)-5/8	1 25/64	3 5/8
SAF 22515	3 1/4	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 1/8	1 1/8	4 11/16	7/64	(2)-5/8, (4)-1/2	1 7/16	3 13/16
SAF 22516	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 1/4	5 5/16	3/16	(2)-3/4, (4)-5/8	1 15/32	4 1/8
SAF 22517	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 1/8	1 3/8	5	3/16	(2)-3/4, (4)-5/8	1 9/16	3 29/32
SAF 22518	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 1/2	5 7/8	3/16	(2)-3/4, (4)-5/8	1 3/4	4 1/16
SAF 22520	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 15/32	1 21/32	6 1/8	3/16	(2)-7/8, (4)-3/4	1 59/64	4 3/8
SAF 22522	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 11/32	1 25/32	6 1/2	3/16	(4)-3/4	2 1/8	4 9/16
SAF 22524	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	1 27/32	7 3/8	3/16	(4)-3/4	2 9/32	5
SAF 22526	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 11/32	8 1/8	3/16	(4)-7/8	2 15/32	5 5/16
SAF 22528	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	11 3/4	2 1/32	7 5/8	3/16	(4)-1	2 29/64	5 1/8
SAF 22530	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 1/2	2	8 3/8	3/16	(4)-1	2 39/64	5 1/2
SAF 22532	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 5/16	2 1/16	8 3/4	3/16	(4)-1	2 31/32	5 11/16
SAF 22534	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 5/32	9 5/8	3/16	(4)-1	3 1/8	6 1/16
SAF 22536	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	2 3/8	10	3/16	(4)-1	3 9/64	6 1/4
SAF 22538	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	2 7/16	10 3/4	3/16	(4)-1 1/4	3 19/64	6 11/16
SAF 22540	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 15/32	11 1/4	3/16	(4)-1 1/4	3 1/2	7 1/16
SAF 22544	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	3 1/8	12	3/16	(4)-1 1/2	3 5/8	7 1/4

Spherical roller / adapter mount

SAF 22600

Two-piece cast-iron housing
Self-aligning / 22300 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	SAF 22615
Option	Specify
Four-bolt base	FSAF 22615
One end closed	SAF 22615Y
PosiTrac Plus seal	SAF 22615TLC
Taconite seals	SAF 22615T
Optional shaft size	SAF 22615 x 2
Cast-steel	SAFS 22615



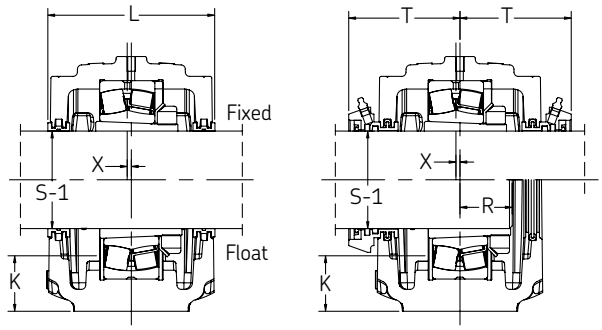
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 347-350.

Shaft dia.		Designations								Mass
S-1 Standard	Optional*	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$1^{7}/_{16}$	$1^{3}/_{8}$, $1^{1}/_{2}$	**SAF 22609**	22309 EK	SNW 109	SAF 609	SR 11-9	LER 17	EPR 3	TER 17	20
$1^{11}/_{16}$	$1^{5}/_{8}$, $1^{3}/_{4}$	**SAF 22610**	22310 EK	SNW 110	SAF 610	SR 0-10	LER 20	EPR 4	TER 20	24
$1^{15}/_{16}$	$1^{7}/_{8}$, 2	**SAF 22611**	22311 EK	SNW 111	SAF 611	SR 13-11	LER 24	EPR 5	TER 24	29
$2^{3}/_{16}$	$2^{1}/_{8}$, $2^{1}/_{4}$	**SAF 22613**	22313 EK	SNW 113	SAF 613	SR 16-13	LOR 32	EPR 7	TER 32	40
$2^{7}/_{16}$	$2^{3}/_{8}$, $2^{1}/_{2}$	**SAF 22615**	22315 EK	SNW 115	SAF 615	SR 18-15	LOR 37	EPR 7	TER 37	52
$2^{11}/_{16}$	$2^{5}/_{8}$, $2^{3}/_{4}$	**SAF 22616**	22316 EK	SNW 116	SAF 616	SR 19-16	LOR 44	EPR 8	TER 44	71
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SAF 22617**	22317 EK	SNW 117	SAF 617	SR 20-17	LOR 184	EPR 10	TER 184	75
$3^{3}/_{16}$	$3^{1}/_{16}$, $3^{1}/_{8}$, $3^{1}/_{4}$	**SAF 22618**	22318 EK	SNW 118	SAF 618	SR 21-18	LOR 188	EPR 11	TER 188	97
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAF 22620**	22320 EK	SNW 120	SAF 620	SR 24-20	LOR 102	EPR 12	TER 102	113
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SAF 22622**	22322 EK	SNW 122	SAF 622	SR 0-22	LOR 109	EPR 13	TER 109	153
$4^{3}/_{16}$	$4^{1}/_{16}$, $4^{1}/_{8}$, $4^{1}/_{4}$	**SAF 22624**	22324 CCK/W33	SNW 124	SAF 624	SR 0-24	LOR 113	EPR 14	TER 113	206
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SAF 22626**	22326 CCK/W33	SNW 126	SAF 626	SR 0-26	LOR 117	EPR 15	TER 117	233
$4^{15}/_{16}$	$4^{13}/_{16}$, $4^{7}/_{8}$, 5	**SAF 22628**	22328 CCK/W33	SNW 128	SAF 628	SR 0-28	LOR 122	EPR 27	TER 122	296
$5^{3}/_{16}$	$5^{1}/_{8}$, $5^{1}/_{4}$	**SAF 22630**	22330 CCK/W33	SNW 130	SAF 630	SR 36-30	LOR 125	EPR 16	TER 125	322
$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SAF 22632**	22332 CCK/W33	SNW 132	SAF 632	SR 38-32	LOR 130	EPR 16	TER 130	401
$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SAF 22634**	22334 CCK/W33	SNW 134	SAF 634	SR 40-34	LOR 140	EPR 18	TER 140	510
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SAF 22638**	22338 CCK/W33	SNW 138	SAF 638	SR 44-38	LOR 155	EPR 21	TER 155	609
$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SAF 22640**	22340 CCK/W33	SNW 140	SAF 640	SR 0-40	LOR 159	EPR 21	TER 159	902

*Optional shaft sizes require different adapter sleeve and seals.

Sizes SAF 22609 - SAF 22610, two-bolt base only;
Sizes SAF 22611 - SAF 22617, two-or four-bolt base options;
Sizes SAF 22618 - SAF 22640, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.



Taconite seal option

Spherical roller / adapter mount

SAF 22600
Two-piece cast-iron housing
Self-aligning / 22300 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF 22615**
Option	Specify
Four-bolt base	FSAF 22615
One end closed	SAF 22615Y
PosiTrac Plus seal	SAF 22615TLC
Taconite seals	SAF 22615T
Optional shaft size	SAF 22615 x 2
Cast-steel	SAFS 22615

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 347-350.

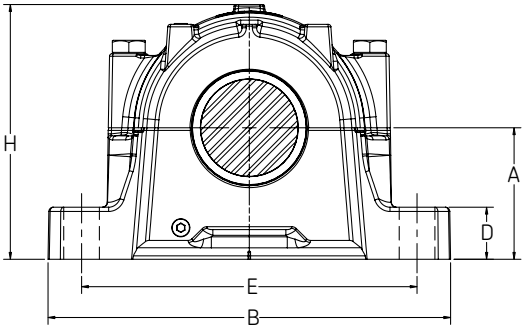
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in													
SAF 22609	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	–	5 5/16	1 9/32	4 1/4	3/16	(2)-5/8	1 5/16	3 3/8
SAF 22610	3	10 5/8	2 3/4	1 1/8	9	7 3/4	–	5 13/16	1 3/8	4 5/8	3/16	(2)-5/8	1 7/16	3 3/4
SAF 22611	3 1/4	11	3 1/8	1 3/16	9 1/2	8 1/8	2	6 3/16	1 7/16	4 7/8	3/16	(2)-5/8, (4)-1/2	1 1/2	3 7/8
SAF 22613	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 13/32	5 5/16	3/16	(2)-3/4, (4)-5/8	1 11/16	4 1/8
SAF 22615	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 19/32	5 7/8	3/16	(2)-3/4, (4)-5/8	1 7/8	4 13/32
SAF 22616	4 1/4	14 1/4	3 7/8	1 3/4	12 5/8	10 5/8	2 1/8	8 1/4	1 11/16	6 1/2	3/16	(2)-3/4, (4)-5/8	1 15/16	4 19/32
SAF 22617	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 3/4	1 3/4	6 3/4	3/16	(2)-7/8, (4)-3/4	2 1/16	4 9/16
SAF 22618	4 3/4	15 1/2	4 3/8	2	13 1/2	12	2 1/4	9 1/4	1 7/8	6 7/8	3/16	(4)-3/4	2 3/16	4 9/16
SAF 22620	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	2 1/32	7 5/16	3/16	(4)-3/4	2 7/16	5
SAF 22622	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 13/32	8 1/8	3/16	(4)-7/8	2 5/8	5 3/8
SAF 22624	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 1/2	2 3/8	8 3/8	3/16	(4)-1	2 13/16	5 1/2
SAF 22626	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 5/16	2 7/16	8 3/4	3/16	(4)-1	3	5 11/16
SAF 22628	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 9/16	9 5/8	3/16	(4)-1	3 1/4	6 1/16
SAF 22630	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	2 5/8	9 3/4	3/16	(4)-1	3 7/16	6 1/4
SAF 22632	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	2 11/16	10 3/4	3/16	(4)-1 1/4	3 5/8	6 11/16
SAF 22634	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 3/4	11 1/4	3/16	(4)-1 1/4	3 3/4	6 15/16
SAF 22638	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	3 3/8	12	3/16	(4)-1 1/2	4 1/16	7 5/16
SAF 22640	9 7/8	34 1/4	9	4	29 1/2	26 1/4	5 1/2	19 1/2	3 7/16	12 3/8	3/16	(4)-1 1/2	4 1/8	7 19/32

Spherical roller / adapter mount

SAF 23000 KA

Two-piece cast-iron housing
Self-aligning / 23000 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	SAF 23024 KA x $4^{3}/_{16}$
Option	Specify
Four-bolt base	FSAF 23024 KA x $4^{3}/_{16}$
One end closed	SAF 23024 KAY x $4^{3}/_{16}$
PosiTrac Plus seal	SAF 23024 KA/TLC x $4^{3}/_{16}$
Taconite seals	SAF 23024 KAT x $4^{3}/_{16}$
Optional shaft size	SAF 23024 KA x $4^{1}/_{4}$
Cast-steel	SAFS 23024



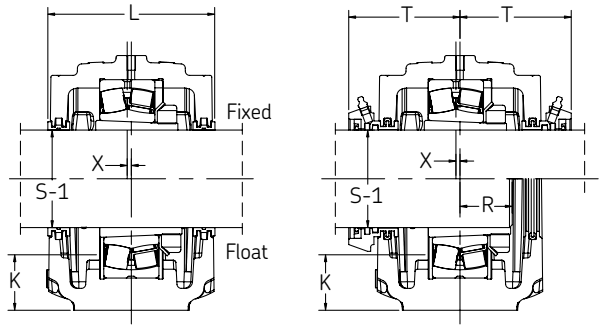
Held and free: Specify the appropriate stabilizing rings for a held unit.
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 347-350.

Shaft dia.					Designations					Mass
S-1 Standard	S-1 Optional*	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$4^{3}/_{16}$	$4^{1}/_{16}$, $4^{1}/_{8}$, $4^{1}/_{4}$	**SAF 23024 KA x $4^{3}/_{16}$**	23024 CCK/W33	SNW 3024 x $4^{3}/_{16}$	SAF 024 KA x $4^{3}/_{16}$	38151-24	LOR 113	EPR 14	TER 113	87
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SAF 23026 KA x $4^{7}/_{16}$**	23026 CCK/W33	SNW 3026 x $4^{7}/_{16}$	SAF 026 KA x $4^{7}/_{16}$	38151-26	LOR 117	EPR 15	TER 117	71
$4^{15}/_{16}$	$4^{13}/_{16}$, $4^{7}/_{8}$, 5	**SAF 23028 KA x $4^{15}/_{16}$**	23028 CCK/W33	SNW 3028 x $4^{15}/_{16}$	SAF 028 KA x $4^{15}/_{16}$	36053-50	LOR 122	EPR 27	TER 122	138
$5^{3}/_{16}$	$5^{1}/_{8}$, $5^{1}/_{4}$	**SAF 23030 KA x $5^{3}/_{16}$**	23030 CCK/W33	SNW 3030 x $5^{3}/_{16}$	SAF 030 KA x $5^{3}/_{16}$	SR-0-21	LOR 125	EPR 16	TER 125	149
$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SAF 23032 KA x $5^{7}/_{16}$**	23032 CCK/W33	SNW 3032 x $5^{7}/_{16}$	SAF 032 KA x $5^{7}/_{16}$	38151-32	LOR 130	EPR 16	TER 130	175
$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SAF 23034 KA x $5^{15}/_{16}$**	23034 CCK/W33	SNW 3034 x $5^{15}/_{16}$	SAF 034 KA x $5^{15}/_{16}$	SR-0-24	LOR 140	EPR 18	TER 140	220
$6^{7}/_{16}$	$6^{5}/_{16}$, $6^{3}/_{8}$, $6^{1}/_{2}$	**SAF 23036 KA x $6^{7}/_{16}$**	23036 CCK/W33	SNW 3036 x $6^{7}/_{16}$	SAF 036 KA x $6^{7}/_{16}$	38151-36	LOR 148	EPR 19	TER 148	272
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SAF 23038 KA x $6^{15}/_{16}$**	23038 CCK/W33	SNW 3038 x $6^{15}/_{16}$	SAF 038 KA x $6^{15}/_{16}$	38151-38	LOR 155	EPR 21	TER 155	284
$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SAF 23040 KA x $7^{3}/_{16}$**	23040 CCK/W33	SNW 3040 x $7^{3}/_{16}$	SAF 040 KA x $7^{3}/_{16}$	38151-40	LOR 159	EPR 21	TER 159	367
$7^{15}/_{16}$	$7^{13}/_{16}$, $7^{7}/_{8}$, 8	**SAF 23044 KA x $7^{15}/_{16}$**	23044 CCK/W33	SNW 3044 x $7^{15}/_{16}$	SAF 044 KA x $7^{15}/_{16}$	36053-140	LOR 167	EPR 23	TER 167	386
$8^{15}/_{16}$	$8^{7}/_{16}$, $8^{1}/_{2}$, 9	**SAF 23048 KA x $8^{15}/_{16}$**	23048 CCK/W33	SNP 3048 x $8^{15}/_{16}$	SAF 048 KA x $8^{15}/_{16}$	A-8897	LOR 552	X-5217-4	TER 552	474
$9^{7}/_{16}$	$9^{1}/_{2}$	**SAF 23052 KA x $9^{7}/_{16}$**	23052 CCK/W33	SNP 3052 x $9^{7}/_{16}$	SAF 052 KA x $9^{7}/_{16}$	A-8898	LOR 553	X-5217-2	TER 553	530
$9^{15}/_{16}$	10	**SAF 23056 KA x $9^{15}/_{16}$**	23056 CACK/W33	SNP 3056 x $9^{15}/_{16}$	SAF 056 KA x $9^{15}/_{16}$	A-8819	LOR 607	X-5217-2	TER 607	800
$10^{7}/_{16}$	$10^{1}/_{2}$	**SAF 23056 KA x $10^{7}/_{16}$**	23056 CACK/W33	SNP 3056 x $10^{7}/_{16}$	SAF 056 KA x $10^{7}/_{16}$	A-8819	LOR 606	X-5217-1	TER 606	800

*Optional shaft sizes require different adapter sleeve and seals.

Size SAF 23024 KA, two-or four-bolt base options;
Sizes SAF 23026 KA - SAF 23056 KA, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.



Taconite seal option

Spherical roller / adapter mount

SAF 23000 KA
Two-piece cast-iron housing
Self-aligning / 23000 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAF 23000 KA x $4^{3}/_{16}$**
Option	Specify
Four-bolt base	FSAF 23024 KA x $4^{3}/_{16}$
One end closed	SAF 23024 KAY x $4^{3}/_{16}$
PosiTrac Plus seal	SAF 23024 KA/TLC x $4^{3}/_{16}$
Taconite seals	SAF 23024 KAT x $4^{3}/_{16}$
Optional shaft size	SAF 23024 KA x $4^{1}/_{4}$
Cast-steel	SAFS 23024 KA x $4^{3}/_{16}$

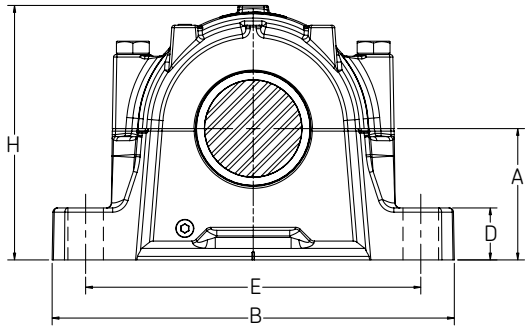
Held and free: Specify the appropriate stabilizing rings for a held unit.
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 347-350.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	**Bolts** (No. req'd)	R	T
	in												
SAF 23024 KA x $4^{3}/_{16}$	$4^{1}/_{2}$	$15^{1}/_{4}$	$4^{3}/_{8}$	$1^{3}/_{4}$	$13^{1}/_{8}$	$11^{5}/_{8}$	$2^{3}/_{8}$	$8^{15}/_{32}$	$1^{9}/_{16}$	$6^{1}/_{8}$	(2)-$^{7}/_{8}$, (4)-$^{3}/_{4}$	$1^{29}/_{32}$	$4^{1}/_{2}$
SAF 23026 KA x $4^{7}/_{16}$	$4^{15}/_{16}$	$16^{1}/_{2}$	$4^{3}/_{4}$	2	$14^{1}/_{2}$	$12^{5}/_{8}$	$2^{3}/_{4}$	$9^{11}/_{32}$	$1^{11}/_{16}$	$6^{1}/_{2}$	(4)-$^{3}/_{4}$	$2^{3}/_{32}$	$4^{5}/_{8}$
SAF 23028 KA x $4^{15}/_{16}$	$5^{1}/_{4}$	$16^{1}/_{2}$	$4^{3}/_{4}$	$2^{1}/_{8}$	$14^{1}/_{2}$	$13^{1}/_{4}$	$2^{3}/_{4}$	$10^{3}/_{16}$	$1^{13}/_{16}$	$7^{3}/_{8}$	(4)-$^{3}/_{4}$	$2^{5}/_{32}$	$5^{1}/_{32}$
SAF 23030 KA x $5^{3}/_{16}$	6	$18^{3}/_{8}$	$5^{1}/_{4}$	$2^{3}/_{8}$	16	$14^{5}/_{8}$	$3^{1}/_{4}$	$11^{5}/_{16}$	$2^{7}/_{32}$	$8^{1}/_{8}$	(4)-$^{7}/_{8}$	$2^{9}/_{32}$	$5^{13}/_{32}$
SAF 23032 KA x $5^{7}/_{16}$	6	$18^{3}/_{8}$	$5^{1}/_{4}$	$2^{3}/_{8}$	16	$14^{5}/_{8}$	$3^{1}/_{4}$	$11^{5}/_{16}$	$2^{1}/_{32}$	$8^{1}/_{8}$	(4)-$^{7}/_{8}$	$2^{7}/_{16}$	$5^{15}/_{32}$
SAF 23034 KA x $5^{15}/_{16}$	6	$20^{1}/_{8}$	$5^{7}/_{8}$	$2^{3}/_{8}$	$17^{1}/_{8}$	16	$3^{3}/_{8}$	$11^{3}/_{4}$	$1^{23}/_{32}$	$7^{5}/_{8}$	(4)-1	$2^{19}/_{32}$	$5^{5}/_{32}$
SAF 23036 KA x $6^{7}/_{16}$	$6^{11}/_{16}$	22	$6^{1}/_{4}$	$2^{5}/_{8}$	$19^{1}/_{4}$	$17^{3}/_{8}$	$3^{3}/_{4}$	$13^{5}/_{16}$	$2^{1}/_{16}$	$8^{3}/_{4}$	(4)-1	$2^{25}/_{32}$	$5^{23}/_{32}$
SAF 23038 KA x $6^{15}/_{16}$	$6^{11}/_{16}$	22	$6^{1}/_{4}$	$2^{5}/_{8}$	$19^{1}/_{4}$	$17^{3}/_{8}$	$3^{3}/_{4}$	$13^{5}/_{16}$	$1^{7}/_{8}$	$8^{3}/_{4}$	(4)-1	$2^{13}/_{16}$	$5^{23}/_{32}$
SAF 23040 KA x $7^{3}/_{16}$	$7^{1}/_{16}$	$24^{3}/_{4}$	$6^{3}/_{4}$	$2^{3}/_{4}$	$21^{5}/_{8}$	$19^{3}/_{8}$	$4^{1}/_{4}$	$14^{3}/_{16}$	$1^{15}/_{16}$	$9^{5}/_{8}$	(4)-1	$3^{1}/_{32}$	$6^{9}/_{32}$
SAF 23044 KA x $7^{15}/_{16}$	$7^{7}/_{8}$	28	$7^{1}/_{2}$	$3^{1}/_{8}$	$24^{3}/_{8}$	$21^{5}/_{8}$	$4^{1}/_{2}$	$15^{11}/_{16}$	$2^{1}/_{4}$	$10^{3}/_{4}$	(4)-$1^{1}/_{4}$	$3^{7}/_{32}$	$6^{23}/_{32}$
SAF 23048 KA x $8^{15}/_{16}$	$8^{1}/_{4}$	$29^{1}/_{2}$	8	$3^{3}/_{8}$	25	$22^{1}/_{2}$	5	$16^{1}/_{2}$	$2^{7}/_{32}$	$11^{1}/_{4}$	(4)-$1^{1}/_{4}$	$3^{9}/_{16}$	$7^{11}/_{16}$
SAF 23052 KA x $9^{7}/_{16}$	$9^{1}/_{2}$	$32^{3}/_{4}$	$8^{3}/_{4}$	$3^{3}/_{4}$	$27^{7}/_{8}$	$24^{3}/_{4}$	$5^{1}/_{4}$	$18^{5}/_{8}$	$2^{3}/_{4}$	12	(4)-$1^{1}/_{2}$	$3^{7}/_{8}$	$8^{1}/_{16}$
SAF 23056 KA x $9^{15}/_{16}$	$9^{7}/_{8}$	$34^{1}/_{4}$	9	4	$29^{1}/_{2}$	$26^{1}/_{4}$	$5^{1}/_{2}$	$19^{1}/_{2}$	$2^{7}/_{8}$	$12^{3}/_{8}$	(4)-$1^{1}/_{2}$	4	$8^{1}/_{4}$
SAF 23056 KA x $10^{7}/_{16}$	$9^{7}/_{8}$	$34^{1}/_{4}$	9	4	$29^{1}/_{2}$	$26^{1}/_{4}$	$5^{1}/_{2}$	$19^{1}/_{2}$	$2^{7}/_{8}$	$12^{3}/_{8}$	(4)-$1^{1}/_{2}$	4	$8^{1}/_{4}$

Toroidal roller (CARB) / cylindrical mount

SAF C2200
Two-piece cast-iron housing
Toroidal/ C2200 series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

How to order	SAF C2215
Option	Specify
Four-bolt base	FSAF C2215
One end closed	SAF C2215Y
PosiTrac Plus seal	SAF C2215TLC
Taconite seals	SAF C2215T
Cast-steel	SAFS C2215

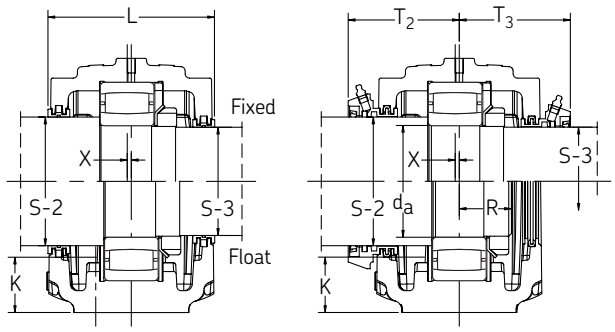


Held: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used.
For shaft diameter tolerances see page 359; for bearing information see page 192; for other seal speed limits see pages 347-350.

Shaft dia.			Designations											Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut*	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
65	$3\frac{1}{16}$	$2\frac{7}{16}$	**SAF C2213**	C2213TN9	KMFE 13	–	SAF 213	SR 13-0	LOR 55	LOR 37	EPR 7	TER 55	TER 37	22
75	$3\frac{7}{16}$	$2\frac{13}{16}$	**SAF C2215**	C2215	KMFE 15	–	SAF 215	SR 15-0	LOR 79	LOR 46	EPR 8	TER 79	TER 46	27
80	$3\frac{5}{8}$	3	**SAF C2216**	C2216	KMFE 16	–	SAF 216	SR 16-13	LOR 82	LOR 54	EPR 9	TER 82	TER 54	34
85	$3\frac{15}{16}$	$3\frac{3}{16}$	**SAF C2217**	C2217	KMFE 17	–	SAF 217	SR 17-14	LOR 89	LOR 63	EPR 9	TER 89	TER 63	35
90	$4\frac{1}{18}$	$3\frac{3}{8}$	**SAF C2218**	C2218	KMFE 18	–	SAF 218	SR 18-15	LOR 112	LOR 191	EPR 11	TER 112	TER 191	44
100	$4\frac{1}{2}$	$3\frac{13}{16}$	**SAF C2220**	C2220	KMFE 20	–	SAF 220	SR 20-17	LOR 118	LOR 106	EPR 12	TER 118	TER 106	65
110	$4\frac{7}{8}$	$4\frac{3}{16}$	**SAF C2222**	C2222	KMFE 22	–	SAF 222	SR 22-19	LOR 121	LOR 113	EPR 14	TER 121	TER 113	88
130	$5\frac{7}{8}$	$4\frac{15}{16}$	**SAF C2226**	C2226	KML 26	MBL 26	SAF 226	SR 26-0	LOR 136	LOR 122	EPR 27	TER 136	TER 122	134
140	$6\frac{1}{4}$	$5\frac{5}{16}$	**SAF C2228**	C2228	KML 28	MBL 28	SAF 228	SR 28-0	LOR 144	LOR 127	EPR 16	TER 144	TER 127	141
150	$6\frac{5}{8}$	$5\frac{3}{4}$	**SAF C2230**	C2230	KML 30	MBL 30	SAF 230	SR 30-0	LOR 151	LOR 134	EPR 17	TER 151	TER 134	181
170	$7\frac{7}{16}$	$6\frac{7}{16}$	**SAF C2234**	C2234	KML 34	MBL 34	SAF 234	SR 34-0	LOR 161	LOR 148	EPR 19	TER 161	TER 148	263
190	$8\frac{3}{8}$	$7\frac{1}{4}$	**SAF C2238**	C2238	KML 38	MBL 38	SAF 238	SR 38-32	LOR 171	LOR 160	EPR 21	TER 171	TER 160	356
220	$9\frac{9}{16}$	$8\frac{5}{16}$	**SAF C2244**	C2244	KML 44	MBL 44	SAF 244	SR 44-38	LOR 179	LOR 170	EPR 24	TER 179	TER 170	535

Size SAF C2213, two-bolt base only;
Sizes SAF C2215 - SAF C2220, two-or four-bolt base options;
Sizes SAF C2222 - SAF C2224, four-bolt base only.
* Refer to page 452 for information on KMFE and KML lock nuts.

Optional internal radial clearances (e.g. C3) are available upon request.



Taconite seal option

Toroidal roller (CARB) / cylindrical mount

SAF C2200
Two-piece cast-iron housing
Toroidal / C2200 series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

How to order	**SAF C2215**
Option	Specify
Four-bolt base	FSAF C2215
One end closed	SAF C2215Y
PosiTrac Plus seal	SAF C2215TLC
Taconite seals	SAF C2215T
Cast-steel	SAFS C2215

Held: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used. For shaft diameter tolerances see page 359; for bearing information see page 192; for other seal speed limits see pages 347-350.

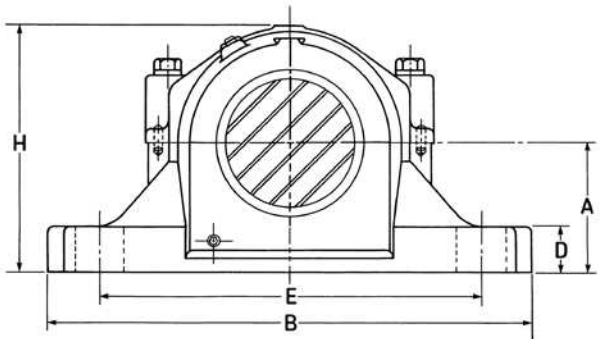
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T_2	T_3
	in														
SAF C2213	3	11	3 1/8	1	9 1/2	8 1/8	–	5 21/32	–	4 1/2	3/16	(2)-5/8	1 1/4	3 3/4	3 3/4
SAF C2215	3 1/4	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 1/8	–	4 11/16	3/16	(2)-5/8, (4)-1/2	1 9/32	3 7/8	3 7/8
SAF C2216	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 1/4	5 5/16	3/16	(2)-3/4, (4)-5/8	1 15/32	4 1/8	4 3/32
SAF C2217	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 1/8	1 3/8	5	3/16	(2)-3/4, (4)-5/8	1 9/16	3 29/32	3 29/32
SAF C2218	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 1/2	5 7/8	3/16	(2)-3/4, (4)-5/8	1 3/4	4 3/16	4 3/32
SAF C2220	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 15/32	1 21/32	6 1/8	3/16	(2)-7/8, (4)-3/4	1 59/64	4 5/16	4 5/16
SAF C2222	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 11/32	1 25/32	6 1/2	3/16	(4)-3/4	2 1/8	4 1/2	4 9/16
SAF C2226	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 11/32	8 1/8	3/16	(4)-7/8	2 15/32	5 1/4	5 5/16
SAF C2228	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	11 3/4	2 1/32	7 5/8	3/16	(4)-1	2 39/64	5 1/8	5 1/8
SAF C2230	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 1/2	2	8 3/8	3/16	(4)-1	2 49/64	5 1/2	5 1/2
SAF C2234	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 5/32	9 5/8	3/16	(4)-1	3 1/8	6 3/16	6
SAF C2238	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	2 7/16	10 3/4	3/16	(4)-1 1/4	3 19/64	7 7/16	6 13/16
SAF C2244	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	3 1/8	12	3/16	(4)-1 1/2	3 5/8	8	8 1/16

Toroidal roller (CARB) / cylindrical mount

SAF C2300

Two-piece cast-iron housing
Toroidal / C2300 series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

How to order	SAF C2315
Option	Specify
Four-bolt base	FSAF C2315
One end closed	SAF C2315Y
PosiTrac Plus seal	SAF C2315TLC
Taconite seals	SAF C2315T
Cast-steel	SAFS C2315

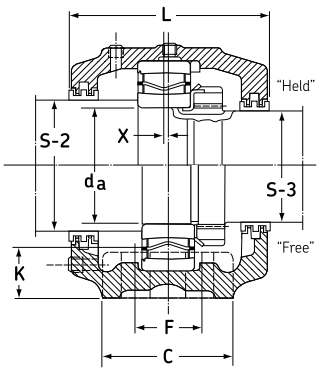


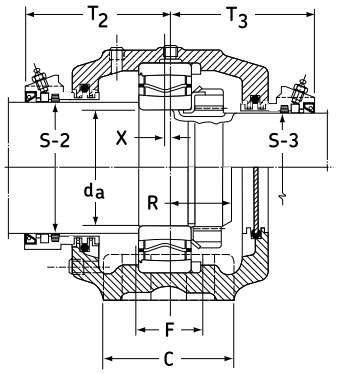
Free: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used.
For shaft diameter tolerances see page 359; for bearing information see page 193; for other seal speed limits see pages 347-350.

Shaft dia.			Designations											Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
70	3 1/4	2 5/8	**SAF C2314**	C2314	N 14	W 14	SAF 314	SR 17-14	LOR 64	LOR 43	EPR 8	TER 64	TER 43	42
75	3 7/16	2 13/16	**SAF C2315**	C2315	AN 15	W 15	SAF 315	SR 18-15	LOR 79	LOR 46	EPR 8	TER 79	TER 46	48
80	3 5/8	3	**SAF C2316**	C2316	AN 16	W 16	SAF 316	SR 19-16	LOR 84	LOR 60	EPR 10	TER 84	TER 60	67
85	3 15/16	3 3/16	**SAF C2317**	C2317	AN 17	W 17	SAF 317	SR 20-17	LOR 109	LOR 188	EPR 11	TER 109	TER 188	71
90	4 1/8	3 3/8	**SAF C2318**	C2318	AN 18	W 18	SAF 318	SR 21-18	LOR 112	LOR 191	EPR 11	TER 112	TER 191	92
100	4 1/2	3 13/16	**SAF C2320**	C2320	AN 20	W 20	SAF 320	SR 24-20	LOR 118	LOR 106	EPR 12	TER 118	TER 106	107

Sizes SAF C2314 - SAF C2317, two-or four-bolt base options;
Sizes SAF C2318 - SAF C2320, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.





Taconite seal option

Toroidal roller (CARB) / cylindrical mount

SAF C2300
Two-piece cast-iron housing
Toroidal / C2300 series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

How to order	**SAF C2315**
Option	Specify
Four-bolt base	FSAF C2315
One end closed	SAF C2315Y
PosiTrac Plus seal	SAF C2315TLC
Taconite seals	SAF C2315T
Cast-steel	SAFS C2315

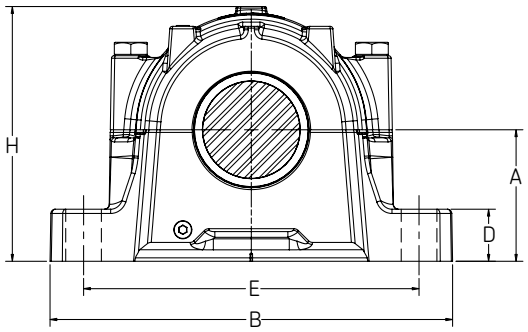
Held: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used. For shaft diameter tolerances see page 359; for bearing information see page 193; for other seal speed limits see pages 347-350.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T_2	T_3
	in														
SAF C2314	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 3/8	1 15/32	5 3/8	3/16	(2)-3/4, (4)-5/8	1 11/16	4 5/32	4 1/8
SAF C2315	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 19/32	5 7/8	3/16	(2)-3/4, (4)-5/8	1 7/8	4 1/2	4 9/16
SAF C2316	4 1/4	14 1/4	3 7/8	1 5/16	12 5/8	10 5/8	2 1/8	8 1/4	1 11/16	6 1/2	3/16	(2)-3/4, (4)-5/8	1 15/16	4 19/32	4 19/32
SAF C2317	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 3/4	1 3/4	6 3/4	3/16	(2)-7/8, (4)-3/4	2 1/16	4 11/16	4 19/32
SAF C2318	4 3/4	15 1/2	4 3/8	2	13 1/2	12	2 1/4	9 3/16	1 7/8	6 7/8	3/16	(4)-3/4	2 3/16	4 3/4	4 19/32
SAF C2320	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	2 1/32	7 3/8	3/16	(4)-3/4	2 7/16	5	5

Toroidal roller (CARB) / adapter mount

SAF C2500
Two-piece cast-iron housing
Toroidal / C2200 K series bearing
Free bearing only
Oil or grease lubrication
LER / LOR triple ring seals

How to order	SAF C2515
Option	Specify
Four-bolt base	FSAF C2515
One end closed	SAF C2515Y
PosiTrac Plus seal	SAF C2515TLC
Taconite seals	SAF C2515T
Optional shaft size	SAF C2515 x $2^{1}/_{2}$
Cast-steel	SAFS C2515



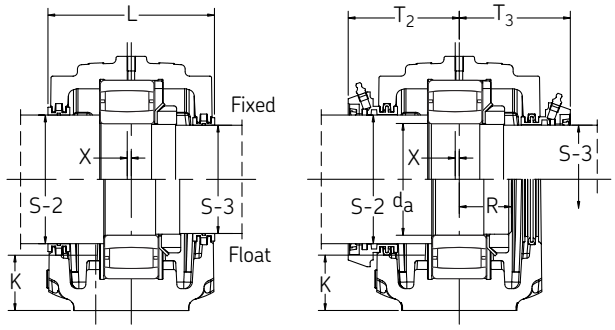
Free: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used.
For shaft diameter tolerances see page 359; for bearing information see page 192; for other seal speed limits see pages 347-350.

Shaft dia.		Designations								Mass
S-1 Standard	Optional*	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$1^{3}/_{16}$	–	**SAF C2507**	C2207 KTN9	HA 307E	SAF 507	36053-6	LER 14	EPR 2	TER 14	8
$1^{7}/_{16}$	$1^{3}/_{8}$, $1^{1}/_{2}$	**SAF C2509**	C2209 KTN9	HA 309E	SAF 509	SR 9-9	LER 17	EPR 3	TER 17	12
$1^{11}/_{16}$	$1^{5}/_{8}$, $1^{3}/_{4}$	**SAF C2510**	C2210 KTN9	HA 310E	SAF 510	SR 10-0	LER 20	EPR 4	TER 20	13
$1^{15}/_{16}$	$1^{7}/_{8}$, 2	**SAF C2511**	C2211 KTN9	HA 311E	SAF 511	SR 11-0	LER 24	EPR 5	TER 24	16
$2^{3}/_{16}$	$2^{1}/_{8}$, $2^{1}/_{4}$	**SAF C2513**	C2213 KTN9	HA 313E	SAF 513	SR 13-0	LER 29	EPR 6	TER 29	22
$2^{7}/_{16}$	$2^{3}/_{8}$, $2^{1}/_{2}$	**SAF C2515**	C2215 K	HA 315E	SAF 515	SR 15-0	LOR 37	EPR 7	TER 37	28
$2^{11}/_{16}$	$2^{5}/_{8}$, $2^{3}/_{4}$	**SAF C2516**	C2216 K	HA 316E	SAF 516	SR 16-13	LOR 44	EPR 8	TER 44	37
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SAF C2517**	C2217 K	HA 317E	SAF 517	SR 17-14	LOR 53	EPR 9	TER 53	38
$3^{3}/_{16}$	$3^{1}/_{16}$, $3^{1}/_{8}$, $3^{1}/_{4}$	**SAF C2518**	C2218 K	HA 318E	SAF 518	SR 18-15	LOR 188	EPR 11	TER 188	47
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAF C2520**	C2220 K	HA 320E	SAF 520	SR 20-17	LOR 102	EPR 12	TER 102	62
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SAF C2522**	C2222 K	HA 322E	SAF 522	SR 22-19	LOR 109	EPR 13	TER 109	73
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SAF C2526**	C2226 K	HA 3126L	SAF 526	SR 26-0	LOR 117	EPR 15	TER 117	144
$4^{15}/_{16}$	$4^{13}/_{16}$, $4^{7}/_{8}$, 5	**SAF C2528**	C2228 K	HA 3128L	SAF 528	SR 28-0	LOR 122	EPR 27	TER 122	153
$5^{3}/_{16}$	$5^{1}/_{8}$, $5^{1}/_{4}$	**SAF C2530**	C2230 K	HA 3130L	SAF 530	SR 30-0	LOR 125	EPR 16	TER 125	199
$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SAF C2534**	C2234 K	HA 3134L	SAF 534	SR 34-0	LOR 140	EPR 18	TER 140	276
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SAF C2538**	C2238 K	HA 3138L	SAF 538	SR 38-32	LOR 155	EPR 20	TER 155	374
$7^{15}/_{16}$	$7^{13}/_{16}$, $7^{7}/_{8}$, 8	**SAF C2544**	C2244 K	HA 3144L	SAF 544	SR 44-38	LOR 167	EPR 23	TER 167	576

*Requires different adapter sleeve and seals.

Sizes SAF C2507 - SAF C2513, two-bolt base only;
Sizes SAF C2515 - SAF C2520, two-or four-bolt base options;
Sizes SAF C2522 - SAF C2544, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.



Taconite seal option

Toroidal roller (CARB) / adapter mount

SAF C2500
Two-piece cast-iron housing
Toroidal / C2200 K series bearing
Free bearing only
Oil or grease lubrication
LER / LOR triple ring seals

How to order	**SAF C2515**
Option	Specify
Four-bolt base	FSAF C2515
One end closed	SAF C2515Y
PosiTrac Plus seal	SAF C2515TLC
Taconite seals	SAF C2515T
Optional shaft size	SAF C2515 x 2 1/2
Cast-steel	SAFS C2515

Free: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used. For shaft diameter tolerances see page 359; for bearing information see page 192; for other seal speed limits see pages 347-350.

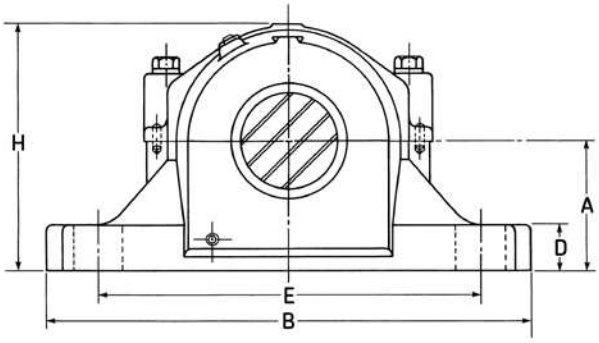
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in													
SAF C2507	2	7 1/2	2	13/16	6 1/8	5 5/8	–	3 3/4	7/8	3 3/16	3/32	(2)-1/2	13/16	3 1/32
SAF C2509	2 1/4	8 1/4	2 3/8	13/16	7	6 1/4	–	4 3/8	31/32	3 5/8	7/64	(2)-1/2	1 3/32	3 1/32
SAF C2510	2 1/2	8 1/4	2 3/8	15/16	7	6 1/2	–	4 3/4	1 3/32	3 5/8	9/64	(2)-1/2	1 5/32	3 1/4
SAF C2511	2 3/4	9 5/8	2 3/4	15/16	7 7/8	7 3/8	–	5 1/32	1 3/16	3 7/8	7/64	(2)-5/8	1 13/64	3 3/8
SAF C2513	3	11	3 1/8	1	9 1/2	8 1/8	–	5 21/32	1 3/32	4 1/2	5/32	(2)-5/8	1 25/64	3 5/8
SAF C2515	3 1/4	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 1/8	1 1/8	4 11/16	7/64	(2)-5/8, (4)-1/2	1 7/16	3 13/16
SAF C2516	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	1 1/4	5 5/16	3/16	(2)-3/4, (4)-5/8	1 15/32	4 1/8
SAF C2517	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 1/8	1 3/8	5	3/16	(2)-3/4, (4)-5/8	1 9/16	3 29/32
SAF C2518	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 1/2	5 7/8	3/16	(2)-3/4, (4)-5/8	1 3/4	4 1/16
SAF C2520	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 15/32	1 21/32	6 1/8	3/16	(2)-7/8, (4)-3/4	1 59/64	4 3/8
SAF C2522	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 11/32	1 25/32	6 1/2	3/16	(4)-3/4	2 1/8	4 9/16
SAF C2526	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	2 11/32	8 1/8	3/16	(4)-7/8	2 15/32	5 5/16
SAF C2528	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	11 3/4	2 1/32	7 5/8	3/16	(4)-1	2 29/64	5 1/8
SAF C2530	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 1/2	2	8 3/8	3/16	(4)-1	2 39/64	5 1/2
SAF C2534	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 5/32	9 5/8	3/16	(4)-1	3 1/8	6 1/16
SAF C2538	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	2 7/16	10 3/4	3/16	(4)-1 1/4	3 19/64	6 11/16
SAF C2544	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	3 1/8	12	3/16	(4)-1 1/2	3 5/8	7 1/4

Toroidal roller (CARB) / adapter mount

SAF C2600

Two-piece cast-iron housing
Toroidal / C2300 K series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

How to order	SAF C2615
Option	Specify
Four-bolt base	FSAF C2615
One end closed	SAF C2615Y
PosiTrac Plus seal	SAF C2615TLC
Taconite seals	SAF C2615T
Optional shaft size	SAF C2615 x 2
Cast-steel	SAFS C2615

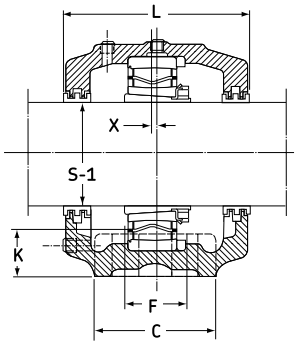


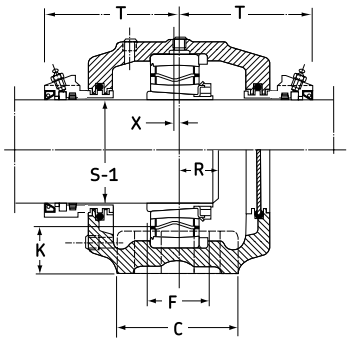
Free: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used.
For shaft diameter tolerances see page 359; for bearing information see page 193; for other seal speed limits see pages 347-350.

Shaft dia.		Designations								Mass
S-1 Standard	Optional*	Complete pillow block	Bearing	Adapter assembly	Pillow block	Stab. ring housing	Triple ring seal (1 req'd)	End plug (2 req'd)	Taconite seal	
in										lbs
$2^{7}/_{16}$	$2^{3}/_{8}$, $2^{1}/_{2}$	**SAF C2615**	C2315 K	HA 2315	SAF 615	SR 18-15	LOR 37	EPR 7	TER 37	52
$2^{11}/_{16}$	$2^{5}/_{8}$, $2^{3}/_{4}$	**SAF C2616**	C2316 K	HA 2316	SAF 616	SR 19-16	LOR 44	EPR 8	TER 44	71
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SAF C2617**	C2317 K	HA 2317	SAF 617	SR 20-17	LOR 184	EPR 10	TER 184	75
$3^{3}/_{16}$	$3^{1}/_{16}$, $3^{1}/_{8}$, $3^{1}/_{4}$	**SAF C2618**	C2318 K	HA 2318	SAF 618	SR 21-18	LOR 188	EPR 11	TER 188	97
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAF C2620**	C2320 K	HA 2320	SAF 620	SR 24-20	LOR 102	EPR 12	TER 102	113

*Optional shaft sizes require different adapter sleeve and seals.
Sizes SAF C2615 - SAF C2617, two-or four-bolt base options;
Sizes SAF C2618 - SAF C2620, four-bolt base only.

Optional internal radial clearances (e.g. C3) are available upon request.





Taconite seal option

SAF C2600
Two-piece cast-iron housing
Toroidal / C2300 K series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

How to order	SAF C2615
Option	Specify
Four-bolt base	FSAF C2615
One end closed	SAF C2615Y
PosiTrac Plus seal	SAF C2615TLC
Taconite seals	SAF C2615T
Optional shaft size	SAF C2615 x 2
Cast-steel	SAFS C2615

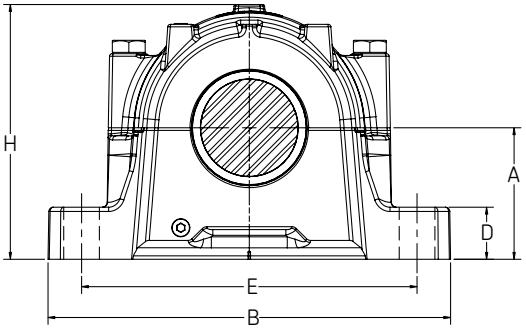
Free: Standard and standard option blocks come with a stabilizing ring. For toroidal bearings, the enclosed stabilizing ring must be used. For shaft diameter tolerances see page 359; for bearing information see page 193; for other seal speed limits see pages 347-350.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in													
SAF C2615	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	1 19/32	5 7/8	3/16	(2)-3/4, (4)-5/8	1 7/8	4 11/32
SAF C2616	4 1/4	14 1/4	3 7/8	1 3/4	12 5/8	10 5/8	2 1/8	8 1/4	1 11/16	6 1/2	3/16	(2)-3/4, (4)-5/8	1 15/16	4 19/32
SAF C2617	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 3/4	1 3/4	6 3/4	3/16	(2)-7/8, (4)-3/4	2 1/16	4 9/16
SAF C2618	4 3/4	15 1/2	4 3/8	2	13 1/2	12	2 1/4	9 1/4	1 7/8	6 7/8	3/16	(4)-3/4	2 3/16	4 9/16
SAF C2620	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	2 1/32	7 5/16	3/16	(4)-3/4	2 7/16	5

Toroidal roller (CARB) / adapter mount

SAF C3000 KA
Two-piece cast-iron housing
Toroidal / C3000 K series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

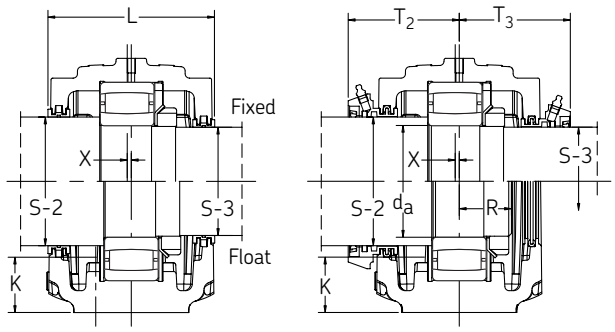
How to order	**C3036 KA x $6^{7}/_{16}$**
Option	Specify
One end closed	SAF C3036 KAY x $6^{7}/_{16}$
PosiTrac Plus seal	SAF C3036TLC x $6^{7}/_{16}$
Taconite seals	SAF C3036 KAT x $6^{7}/_{16}$
Optional shaft size	SAF C3036 KA x $6^{1}/_{2}$
Cast-steel	SAFS C3036 KA x $6^{7}/_{16}$



For toroidal bearings in this series, you must order the appropriate stabilizing rings.
For shaft diameter tolerances see page 359; for bearing information see page 194; for other seal speed limits see pages 347-350.

Shaft dia.					**Designations**					**Mass**
S-1 Standard	Optional*	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$6^{7}/_{16}$	$6^{5}/_{16}$, $6^{3}/_{8}$, $6^{1}/_{2}$	**SAF C3036 KA x $6^{7}/_{16}$**	C3036 K	HA 3036	SAF 036 KA x $6^{7}/_{16}$	38151-36	LOR 148	EPR 19	TER 148	272
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SAF C3038 KA x $6^{15}/_{16}$**	C3038 K	HA 3038	SAF 038 KA x $6^{15}/_{16}$	38151-38	LOR 155	EPR 20	TER 155	284
$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SAF C3040 KA x $7^{3}/_{16}$**	C3040 K	HA 3040	SAF 040 KA x $7^{3}/_{16}$	38151-40	LOR 159	EPR 21	TER 159	367
$7^{15}/_{16}$	$7^{13}/_{16}$, $7^{7}/_{8}$, 8	**SAF C3044 KA x $7^{15}/_{16}$**	C3044 K	HA 3044	SAF 044 KA x $7^{15}/_{16}$	36053-140	LOR 167	EPR 23	TER 167	386
$8^{15}/_{16}$	$8^{7}/_{16}$, $8^{1}/_{2}$, 9	**SAF C3048 KA x $8^{15}/_{16}$**	C3048 K	HA 3048	SAF 048 KA x $8^{15}/_{16}$	A-8897	LOR 552	X-5217-4	TER 552	474
$9^{7}/_{16}$	$9^{1}/_{2}$	**SAF C3052 KA x $9^{7}/_{16}$**	C3052 K	HA 3052	SAF 052 KA x $9^{7}/_{16}$	A-8898	LOR 553	X-5217-2	TER 553	530
$9^{15}/_{16}$	10	**SAF C3056 KA x $9^{15}/_{16}$**	C3056 K	HA 3056/252.4	SAF 056 KA x $9^{15}/_{16}$	A-8819	LOR 607	X-5217-2	TER 607	800
$10^{7}/_{16}$	$10^{1}/_{2}$	**SAF C3056 KA x $10^{7}/_{16}$**	C3056 K	HA 3056/265.1	SAF 056 KA x $10^{7}/_{16}$	A-8819	LOR 606	X-5217-1	TER 606	800

*Optional shaft sizes require different adapter sleeve and seals.
Sizes SAF C3036 KA - SAF C3056 KA, four-bolt base only.
Optional internal radial clearances (e.g. C3) are available upon request.



Taconite seal option

Toroidal roller / adapter mount

SAF C3000 KA
Two-piece cast-iron housing
Self-aligning / 23000 K series bearing
Free bearing only
Oil or grease lubrication
LOR triple ring seals

How to order	**SAF C3036 KA x $6^{7}/_{16}$**
Option	Specify
One end closed	SAF C3036 KAY $6^{7}/_{16}$
PosiTrac Plus seal	SAF C3036 KA/TLC x $6^{7}/_{16}$
Taconite seals	SAF C3036 KAT $6^{7}/_{16}$
Optional shaft size	SAF C3036 KA x $6^{1}/_{2}$
Cast-steel	SAFS C3036 KA x $6^{7}/_{16}$

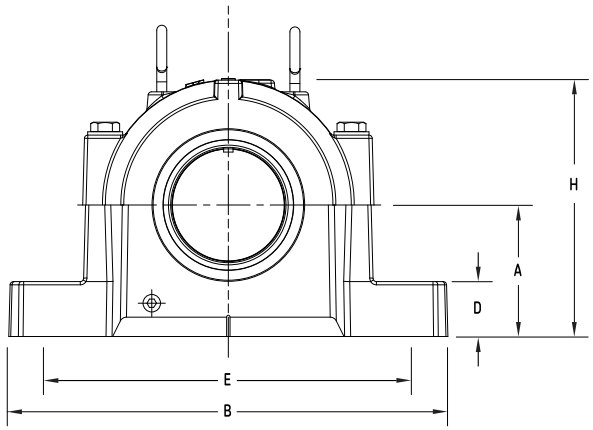
For toroidal bearings in this series, you must order the appropriate stabilizing rings.
For shaft diameter tolerances see page 359; for bearing information see page 194; for other seal speed limits see pages 347-350.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	**Bolts** (No. req'd)	R	T
	in												
SAF C3036 KA x $6^{7}/_{16}$	$6^{11}/_{16}$	22	$6^{1}/_{4}$	$2^{5}/_{8}$	$19^{1}/_{4}$	$17^{3}/_{8}$	$3^{3}/_{4}$	$13^{5}/_{16}$	$2^{1}/_{16}$	$8^{3}/_{4}$	(4)-1	$2^{25}/_{32}$	$5^{23}/_{32}$
SAF C3038 KA x $6^{15}/_{16}$	$6^{11}/_{16}$	22	$6^{1}/_{4}$	$2^{5}/_{8}$	$19^{1}/_{4}$	$17^{3}/_{8}$	$3^{3}/_{4}$	$13^{5}/_{16}$	$1^{7}/_{8}$	$8^{3}/_{4}$	(4)-1	$2^{13}/_{16}$	$5^{23}/_{32}$
SAF C3040 KA x $7^{3}/_{16}$	$7^{1}/_{16}$	$24^{3}/_{4}$	$6^{3}/_{4}$	$2^{3}/_{4}$	$21^{5}/_{8}$	$19^{3}/_{8}$	$4^{1}/_{4}$	$14^{3}/_{16}$	$1^{15}/_{16}$	$9^{5}/_{8}$	(4)-1	$3^{1}/_{32}$	$6^{9}/_{32}$
SAF C3044 KA x $7^{15}/_{16}$	$7^{7}/_{8}$	28	$7^{1}/_{2}$	$3^{1}/_{8}$	$24^{3}/_{8}$	$21^{5}/_{8}$	$4^{1}/_{2}$	$15^{11}/_{16}$	$2^{1}/_{4}$	$10^{3}/_{4}$	(4)-$1^{1}/_{4}$	$3^{7}/_{32}$	$6^{23}/_{32}$
SAF C3048 KA x $8^{15}/_{16}$	$8^{1}/_{4}$	$29^{1}/_{2}$	8	$3^{3}/_{8}$	25	$22^{1}/_{2}$	5	$16^{1}/_{2}$	$2^{7}/_{32}$	$11^{1}/_{4}$	(4)-$1^{1}/_{4}$	$3^{9}/_{16}$	$7^{11}/_{16}$
SAF C3052 KA x $9^{7}/_{16}$	$9^{1}/_{2}$	$32^{3}/_{4}$	$8^{3}/_{4}$	$3^{3}/_{4}$	$27^{7}/_{8}$	$24^{3}/_{4}$	$5^{1}/_{4}$	$18^{5}/_{8}$	$2^{3}/_{4}$	12	(4)-$1^{1}/_{2}$	$3^{7}/_{8}$	$8^{1}/_{16}$
SAF C3056 KA x $9^{15}/_{16}$	$9^{7}/_{8}$	$34^{1}/_{4}$	9	$2^{3}/_{4}$	$29^{1}/_{2}$	$26^{1}/_{4}$	$5^{1}/_{2}$	$20^{3}/_{16}$	$2^{7}/_{8}$	$12^{1}/_{4}$	(4)-$1^{1}/_{2}$	4	$8^{1}/_{4}$
SAF C3056 KA x $10^{7}/_{16}$	$9^{7}/_{8}$	$34^{1}/_{4}$	9	$2^{3}/_{4}$	$29^{1}/_{2}$	$26^{1}/_{4}$	$5^{1}/_{2}$	$20^{3}/_{16}$	$2^{7}/_{8}$	$12^{1}/_{4}$	(4)-$1^{1}/_{2}$	4	$8^{1}/_{4}$

Spherical roller bearing / cylindrical mount

SAFS 22200
Two-piece cast-steel housing
Self-aligning / 22200 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

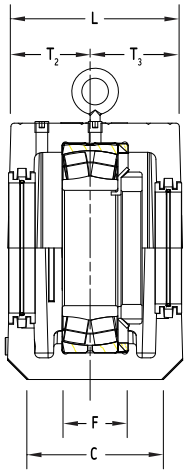
How to order	**SAFS 22216**
Option	Specify
Four-bolt base	SAFS 22216-11
One end closed	SAFS 22216Y
Taconite seals	SAFS 22216T
Contact seals	SAFS 22216-210



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 98; for other seal speed limits see pages 347-350.

Shaft dia.			**Designations**											**Mass**
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
80	3 5/8	3	**SAFS 22216**	22216 E	AN 16	W 16	SAFS 216	SR 16-13	LOR 82	LOR 54	EPR 9	TER 82	TER 54	41
85	3 15/16	3 3/16	**SAFS 22217**	22217 E	AN 17	W 17	SAFS 217	SR 17-14	LOR 89	LOR 63	EPR 9	TER 89	TER 63	44
90	4 1/8	3 3/8	**SAFS 22218**	22218 E	AN 18	W 18	SAFS 218	SR 18-15	LOR 112	LOR 191	EPR 11	TER 112	TER 191	53
100	4 1/2	3 3/16	**SAFS 22220**	22220 E	AN 20	W 20	SAFS 220	SR 20-17	LOR 118	LOR 106	EPR 12	TER 118	TER 106	75
110	4 7/8	4 3/16	**SAFS 22222**	22222 E	AN 22	W 22	SAFS 222	SR 22-19	LOR 121	LOR 113	EPR 14	TER 121	TER 113	98
120	5 5/16	4 9/16	**SAFS 22224**	22224 E	AN 24	W 24	SAFS 224	SR 24-20	LOR 127	LOR 119	EPR 15	TER 127	TER 119	118
130	5 7/8	4 15/16	**SAFS 22226**	22226 E	AN 26	W 26	SAFS 226	SR 26-0	LOR 136	LOR 122	EPR 27	TER 136	TER 122	158
140	6 1/4	5 5/16	**SAFS 22228**	22228 CC/W33	AN 28	W 28	SAFS 228	SR 28-0	LOR 144	LOR 127	EPR 16	TER 144	TER 127	178
150	6 5/8	5 3/4	**SAFS 22230**	22230 CC/W33	AN 30	W 30	SAFS 230	SR 30-0	LOR 151	LOR 134	EPR 17	TER 151	TER 134	221
160	7	6 7/16	**SAFS 22232**	22232 CC/W33	AN 32	W 32	SAFS 232	SR 32-0	LOR 156	LOR 142	EPR 18	TER 156	TER 142	247
170	4 1/8	3 3/8	**SAFS 22234**	22234 CC/W33	AN 34	W 34	SAFS 234	SR 34-0	LOR 161	LOR 148	EPR 19	TER 161	TER 148	313
180	7 13/16	6 7/8	**SAFS 22236**	22236 CC/W33	AN 36	W 36	SAFS 236	SR 36-30	LOR 165	LOR 154	EPR 20	TER 165	TER 154	393
190	8 3/8	7 1/4	**SAFS 22238**	22238 CC/W33	AN 38	W 38	SAFS 238	SR 38-32	LOR 171	LOR 160	EPR 21	TER 171	TER 160	409
200	8 3/4	7 5/8	**SAFS 22240**	22240 CC/W33	AN 40	W 40	SAFS 240	SR 40-34	LOR 175	LOR 164	EPR 22	TER 175	TER 164	464
220	9 9/16	8 5/16	**SAFS 22244**	22244 CC/W33	N 44	W 44	SAFS 244	SR 44-38	LOR 179	LOR 170	EPR 24	TER 179	TER 170	491

Sizes SAFS 22216 - SAFS 22220, two-or four-bolt base options;
Sizes SAFS 22222 - SAFS 22244, four-bolt base only.



Spherical roller bearing / cylindrical mount

SAFS 22200
Two-piece cast-steel housing
Self-aligning / 22200 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAFS 22216**
Option	Specify
Four-bolt base	SAFS 22216-11
One end closed	SAFS 22216Y
Taconite seals	SAFS 22216T
Contact seals	SAFS 22216-210

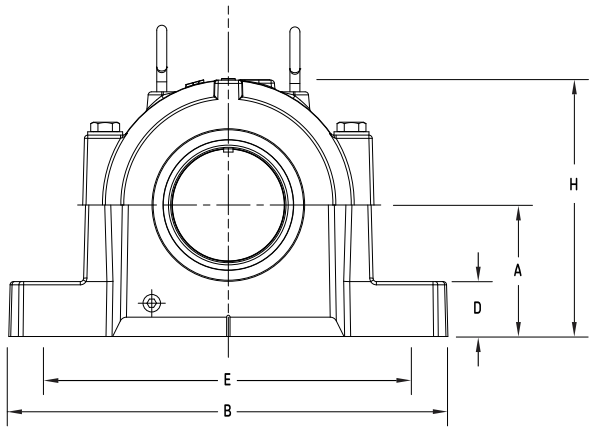
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 98; for other seal speed limits see pages 347-350.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	**Bolts** (no. req'd)	R	T_2	T_3
	in													
SAFS 22216	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 15/16	1 1/4	5 3/8	(2)-3/4, (4)-5/8	1 15/32	4 1/8	4 3/32
SAFS 22217	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 3/8	1 3/8	5 3/8	(2)-3/4, (4)-5/8	1 9/16	4 5/32	4 5/32
SAFS 22218	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 7/8	1 1/2	6 1/4	(2)-3/4, (4)-5/8	1 3/4	4 7/16	4 9/32
SAFS 22220	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 7/8	1 21/32	6	(2)-7/8, (4)-3/4	1 59/64	4 1/4	4 1/4
SAFS 22222	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 3/4	1 25/32	6 5/8	(4)-3/4	2 1/8	4 9/16	4 5/8
SAFS 22224	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 1/2	1 27/32	7 3/8	(4)-3/4	2 9/32	5	5
SAFS 22226	6	18 3/8	5 1/8	2 3/8	16	14 5/8	3 1/4	11 3/4	2 11/32	8	(4)-7/8	2 15/32	5 1/4	5 1/4
SAFS 22228	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	12	2 1/32	7 5/8	(4)-1	2 39/64	5 1/8	5 1/8
SAFS 22230	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 5/8	2	8 3/8	(4)-1	2 49/64	5 1/2	5 1/2
SAFS 22232	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 7/16	2 1/16	8 3/4	(4)-1	2 31/32	5 11/16	5 11/16
SAFS 22234	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 7/16	2 5/32	9 5/8	(4)-1	3 1/8	6 3/16	6
SAFS 22236	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	15 5/16	2 3/8	10	(4)-1	3 9/64	6 1/4	6 1/4
SAFS 22238	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 5/16	2 7/16	10 3/4	(4)-1 1/4	3 19/64	7 7/16	6 13/16
SAFS 22240	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 15/32	11 1/4	(4)-1 1/4	3 1/2	7 3/4	7 1/8
SAFS 22244	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 7/8	3 1/8	12	(4)-1 1/2	3 5/8	8	8 1/16

Spherical roller bearing / cylindrical mount

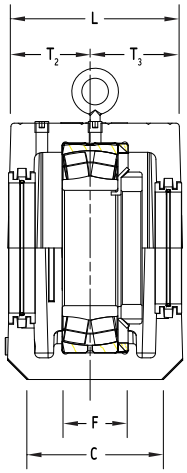
SAFS 22300
Two-piece cast-steel housing
Self-aligning / 22300 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAFS 22320**
Option	Specify
One end closed	SAFS 22320Y
Taconite seals	SAFS 22320T
Contact seals	SAFS 22320-210



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 99; for other seal speed limits see pages 347-350.

Shaft dia.			**Designations**											**Mass**
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
100	$4\frac{1}{2}$	$3\frac{13}{16}$	**SAFS 22320**	22320 E	AN 20	W 20	SAFS 320	SR 24-20	LOR 118	LOR 106	EPR 12	TER 118	TER 106	152
110	$4\frac{7}{8}$	$4\frac{3}{16}$	**SAFS 22322**	22322 E	AN 22	W 22	SAFS 322	SR 0-22	LOR 121	LOR 113	EPR 14	TER 121	TER 113	158
120	$5\frac{5}{16}$	$4\frac{9}{16}$	**SAFS 22324**	22324 CC/W33	AN 24	W 24	SAFS 324	SR 0-24	LOR 127	LOR 119	EPR 15	TER 127	TER 119	221
130	$5\frac{7}{8}$	$4\frac{15}{16}$	**SAFS 22326**	22326 CC/W33	AN 26	W 26	SAFS 326	SR 0-26	LOR 136	LOR 122	EPR 27	TER 136	TER 122	266
140	$6\frac{1}{4}$	$5\frac{5}{16}$	**SAFS 22328**	22328 CC/W33	AN 28	W 28	SAFS 328	SR 0-28	LOR 144	LOR 127	EPR 16	TER 144	TER 127	312
150	$6\frac{5}{8}$	$5\frac{3}{4}$	**SAFS 22330**	22330 CC/W33	AN 30	W 30	SAFS 330	SR 36-30	LOR 151	LOR 134	EPR 17	TER 151	TER 134	392
160	7	$6\frac{7}{16}$	**SAFS 22332**	22332 CC/W33	AN 32	W 32	SAFS 332	SR 38-32	LOR 156	LOR 142	EPR 18	TER 156	TER 142	408
170	$7\frac{7}{16}$	$6\frac{7}{16}$	**SAFS 22334**	22334 CC/W33	AN 34	W 34	SAFS 334	SR 40-34	LOR 161	LOR 148	EPR 19	TER 161	TER 148	461
180	$8\frac{3}{8}$	$7\frac{1}{4}$	**SAFS 22338**	22338 CC/W33	AN 38	W 38	SAFS 338	SR 44-38	LOR 171	LOR 160	EPR 21	TER 171	TER 160	491
200	$8\frac{3}{4}$	$7\frac{5}{8}$	**SAFS 22340**	22340 CC/W33	AN 40	W 40	SAFS 340	SR 0-40	LOR 175	LOR 164	EPR 22	TER 175	TER 164	800



Spherical roller bearing / cylindrical mount

SAFS 22300
Two-piece cast-steel housing
Self-aligning / 22300 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAFS 22320**
Option	Specify
One end closed	SAFS 22320Y
Taconite seals	SAFS 22320T
Contact seals	SAFS 22320-210

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 99; for other seal speed limits see pages 347-350.

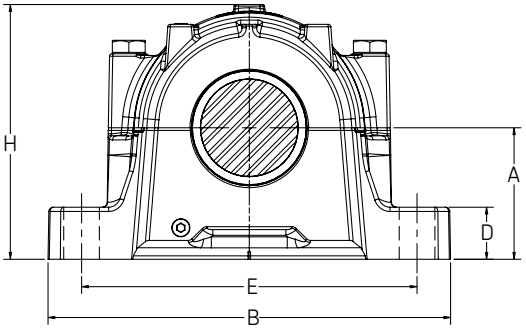
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	**Bolts** (no. req'd)	R	T_2	T_3
	in													
SAFS 22320	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 1/2	2 1/32	7 3/8	(4)-3/4	2 7/16	5	5
SAFS 22322	6	18 3/8	5 1/8	2 3/8	16	14 5/8	3 1/4	11 3/4	2 13/32	8	(4)-7/8	2 5/8	5 1/4	5 1/4
SAFS 22324	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 5/8	2 3/8	8 3/8	(4)-1	2 13/16	5 1/2	5 1/2
SAFS 22326	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 7/16	2 7/16	8 3/4	(4)-1	3	5 11/16	5 11/16
SAFS 22328	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 7/16	2 9/16	9 3/4	(4)-1	3 1/4	6 1/8	6 1/8
SAFS 22330	7 1/2	26 3/4	7 1/8	2 1/8	23 5/8	20 7/8	4 5/8	15 5/16	2 5/8	9 3/4	(4)-1	3 7/16	6 1/4	6 1/4
SAFS 22332	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 15/16	2 11/16	10 3/4	(4)-1 1/4	3 5/8	6 11/16	6 11/16
SAFS 22334	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 3/4	11 3/8	(4)-1 1/4	3 3/4	7 1/8	6 15/16
SAFS 23338	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 7/8	3 3/8	12	(4)-1 1/2	4 1/16	8 11/16	7 7/16
SAFS 22340	9 7/8	34 1/4	9	4	29 1/2	26 1/4	5 1/2	19 1/2	3 7/16	12 3/8	(4)-1 1/2	4 1/8	8 1/4	8 1/4

Spherical roller / adapter mount

SAFS 22500

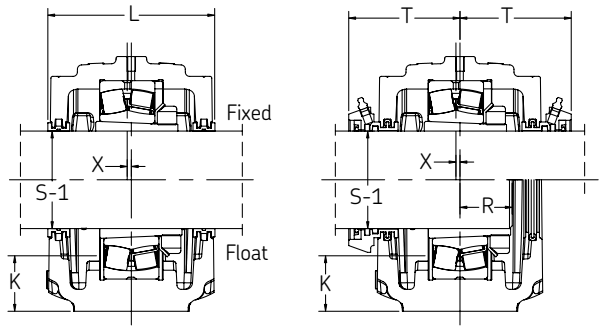
Two-piece cast-steel housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	SAFS 22515
Option	Specify
Four-bolt base	SAFS 22515-11
One end closed	SAFS 22515Y
Taconite seals	SAFS 22515T
Contact seals	SAFS 22515-210
Optional shaft size	SAFS 22515 x $2^{1}/_{2}$



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 100; for other seal speed limits see pages 347-350.

Shaft dia.						Designations				Mass
S-1 Standard	Optional	Complete pillow block	Bearing	Adapter assembly	Pillow block	Stab. ring housing	Triple ring seal (1 req'd)	End plug (2 req'd)	Taconite seal	
in										lbs
$2^{7}/_{16}$	$2^{3}/_{8}$, $2^{1}/_{2}$	**SAFS 22515**	22215 EK	SNW 15	SAFS 515	SR 15-0	LOR 37	EPR 7	TER 37	32
$2^{11}/_{16}$	$2^{5}/_{8}$, $2^{3}/_{4}$	**SAFS 22516**	22216 EK	SNW 16	SAFS 516	SR 16-13	LOR 44	EPR 8	TER 44	42
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SAFS 22517**	22217 EK	SNW 17	SAFS 517	SR 17-14	LOR 53	EPR 9	TER 53	45
$3^{3}/_{16}$	$3^{1}/_{16}$, $3^{1}/_{8}$, $3^{1}/_{4}$	**SAFS 22518**	22218 EK	SNW 18	SAFS 518	SR 18-15	LOR 188	EPR 11	TER 188	62
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAFS 22520**	22220 EK	SNW 20	SAFS 520	SR 20-17	LOR 102	EPR 12	TER 102	79
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SAFS 22522**	22222 EK	SNW 22	SAFS 522	SR 22-19	LOR 109	EPR 13	TER 109	88
$4^{3}/_{16}$	$4^{1}/_{16}$, $4^{1}/_{8}$, $4^{1}/_{4}$	**SAFS 22524**	22224 EK	SNW 24	SAFS 524	SR 24-20	LOR 113	EPR 14	TER 113	125
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SAFS 22526**	22226 EK	SNW 26	SAFS 526	SR 26-0	LOR 117	EPR 15	TER 117	169
$4^{15}/_{16}$	$4^{13}/_{16}$, $4^{7}/_{8}$, 5	**SAFS 22528**	22228 CCK/W33	SNW 28	SAFS 528	SR 28-0	LOR 122	EPR 27	TER 122	185
$5^{3}/_{16}$	$5^{1}/_{8}$, $5^{1}/_{4}$	**SAFS 22530**	22230 CCK/W33	SNW 30	SAFS 530	SR 30-0	LOR 125	EPR 16	TER 125	236
$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SAFS 22532**	22232 CCK/W33	SNW 32	SAFS 532	SR 32-0	LOR 130	EPR 16	TER 130	241
$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SAFS 22534**	22234 CCK/W33	SNW 34	SAFS 534	SR 34-0	LOR 140	EPR 18	TER 140	326
$6^{7}/_{16}$	$6^{5}/_{16}$, $6^{3}/_{8}$, $6^{1}/_{2}$	**SAFS 22536**	22236 CCK/W33	SNW 36	SAFS 536	SR 36-30	LOR 148	EPR 19	TER 148	366
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SAFS 22538**	22238 CCK/W33	SNW 38	SAFS 538	SR 38-32	LOR 155	EPR 20	TER 155	435
$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SAFS 22540**	22240 CCK/W33	SNW 40	SAFS 540	SR 40-34	LOR 159	EPR 21	TER 159	486
$7^{15}/_{16}$	$7^{13}/_{16}$, $7^{7}/_{8}$, 8	**SAFS 22544**	22244 CCK/W33	SNW 44	SAFS 544	SR 44-38	LOR 167	EPR 23	TER 167	680



Taconite seal option

Spherical roller / adapter mount

SAFS 22500
Two-piece cast-steel housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAFS 22515**
Option	Specify
Four-bolt base	SAFS 22515-11
One end closed	SAFS 22515Y
Taconite seals	SAFS 22515T
Contact seals	SAFS 22515-210
Optional shaft size	SAFS 22515 x $2^{1}/_{2}$

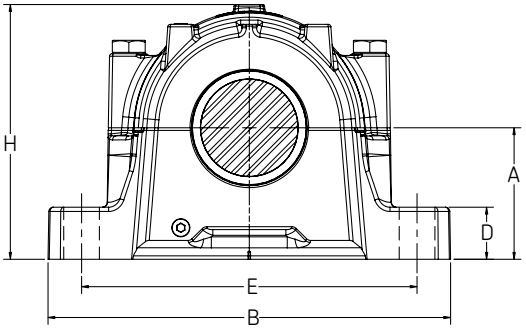
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 100; for other seal speed limits see pages 347-350.

Designations Complete pillow block									**Static oil level**			**Bolts**		
	A	B	C	D	E Max	E Min	F	H	K	L	X	(No. req'd)	R	T
	in													
SAFS 22515	$3^{1}/_{4}$	$11^{1}/_{4}$	$3^{1}/_{8}$	$1^{3}/_{16}$	$9^{5}/_{8}$	$8^{5}/_{8}$	$1^{7}/_{8}$	$6^{3}/_{8}$	$1^{1}/_{8}$	$4^{3}/_{4}$	$^{7}/_{64}$	(2)-$^{5}/_{8}$, (4)-$^{1}/_{2}$	$1^{7}/_{16}$	$3^{13}/_{16}$
SAFS 22516	$3^{1}/_{2}$	13	$3^{1}/_{2}$	$1^{1}/_{4}$	11	$9^{5}/_{8}$	$2^{1}/_{8}$	$6^{15}/_{16}$	$1^{1}/_{4}$	$5^{3}/_{8}$	$^{3}/_{16}$	(2)-$^{3}/_{4}$, (4)-$^{5}/_{8}$	$1^{15}/_{32}$	$4^{5}/_{32}$
SAFS 22517	$3^{3}/_{4}$	13	$3^{1}/_{2}$	$1^{1}/_{4}$	11	$9^{7}/_{8}$	$2^{1}/_{8}$	$7^{7}/_{16}$	$1^{3}/_{8}$	$5^{3}/_{8}$	$^{3}/_{16}$	(2)-$^{3}/_{4}$, (4)-$^{5}/_{8}$	$1^{9}/_{16}$	$4^{5}/_{32}$
SAFS 22518	4	$13^{3}/_{4}$	$3^{7}/_{8}$	$1^{5}/_{8}$	$11^{5}/_{8}$	$10^{3}/_{8}$	$2^{1}/_{8}$	$7^{7}/_{8}$	$1^{1}/_{2}$	$6^{1}/_{4}$	$^{3}/_{16}$	(2)-$^{3}/_{4}$, (4)-$^{5}/_{8}$	$1^{3}/_{4}$	$4^{1}/_{4}$
SAFS 22520	$4^{1}/_{2}$	$15^{1}/_{4}$	$4^{3}/_{8}$	$1^{3}/_{4}$	$13^{1}/_{8}$	$11^{5}/_{8}$	$2^{3}/_{8}$	$8^{7}/_{8}$	$1^{21}/_{32}$	6	$^{3}/_{16}$	(2)-$^{7}/_{8}$, (4)-$^{3}/_{4}$	$1^{59}/_{64}$	$4^{15}/_{16}$
SAFS 22522	$4^{15}/_{16}$	$16^{1}/_{2}$	$4^{3}/_{4}$	2	$14^{1}/_{2}$	$12^{5}/_{8}$	$2^{3}/_{4}$	$9^{3}/_{4}$	$1^{25}/_{32}$	$6^{5}/_{8}$	$^{3}/_{16}$	(4)-$^{3}/_{4}$	$2^{1}/_{8}$	$4^{5}/_{8}$
SAFS 22524	$5^{1}/_{4}$	$16^{1}/_{2}$	$4^{3}/_{4}$	$2^{1}/_{8}$	$14^{1}/_{2}$	$13^{1}/_{4}$	$2^{3}/_{4}$	$10^{1}/_{2}$	$1^{27}/_{32}$	$7^{3}/_{8}$	$^{3}/_{16}$	(4)-$^{3}/_{4}$	$2^{9}/_{32}$	5
SAFS 22526	6	$18^{3}/_{8}$	$5^{1}/_{8}$	$2^{3}/_{8}$	16	$14^{5}/_{8}$	$3^{1}/_{4}$	$11^{3}/_{4}$	$2^{11}/_{32}$	8	$^{3}/_{16}$	(4)-$^{7}/_{8}$	$2^{15}/_{32}$	$5^{1}/_{4}$
SAFS 22528	6	$20^{1}/_{8}$	$5^{7}/_{8}$	$2^{3}/_{8}$	$17^{1}/_{8}$	16	$3^{3}/_{8}$	12	$2^{1}/_{32}$	$7^{5}/_{8}$	$^{3}/_{16}$	(4)-1	$2^{29}/_{64}$	$5^{1}/_{8}$
SAFS 22530	$6^{5}/_{16}$	$21^{1}/_{4}$	$6^{1}/_{4}$	$2^{1}/_{2}$	$18^{1}/_{4}$	17	$3^{3}/_{4}$	$12^{5}/_{8}$	2	$8^{3}/_{8}$	$^{3}/_{16}$	(4)-1	$2^{39}/_{64}$	$5^{1}/_{2}$
SAFS 22532	$6^{11}/_{16}$	22	$6^{1}/_{4}$	$2^{5}/_{8}$	$19^{1}/_{4}$	$17^{3}/_{8}$	$3^{3}/_{4}$	$13^{7}/_{16}$	$2^{1}/_{16}$	$8^{3}/_{4}$	$^{3}/_{16}$	(4)-1	$2^{31}/_{32}$	$5^{11}/_{16}$
SAFS 22534	$7^{1}/_{16}$	$23^{3}/_{4}$	$6^{3}/_{4}$	$2^{3}/_{4}$	$21^{5}/_{8}$	$19^{3}/_{8}$	$4^{1}/_{4}$	$14^{7}/_{16}$	$2^{5}/_{32}$	$9^{5}/_{8}$	$^{3}/_{16}$	(4)-1	$3^{1}/_{8}$	$6^{1}/_{16}$
SAFS 22536	$7^{1}/_{2}$	$26^{3}/_{4}$	$7^{1}/_{8}$	$2^{1}/_{8}$	$23^{5}/_{8}$	$20^{7}/_{8}$	$4^{5}/_{8}$	$15^{5}/_{16}$	$2^{3}/_{8}$	10	$^{3}/_{16}$	(4)-1	$3^{9}/_{64}$	$6^{1}/_{4}$
SAFS 22538	$7^{7}/_{8}$	28	$7^{1}/_{2}$	$3^{1}/_{8}$	$24^{3}/_{8}$	$21^{5}/_{8}$	$4^{1}/_{2}$	$15^{15}/_{16}$	$2^{7}/_{16}$	$10^{3}/_{4}$	$^{3}/_{16}$	(4)-$1^{1}/_{4}$	$3^{19}/_{64}$	$6^{11}/_{16}$
SAFS 22540	$8^{1}/_{4}$	$29^{1}/_{2}$	8	$3^{3}/_{8}$	25	$22^{1}/_{2}$	5	$16^{1}/_{2}$	$2^{15}/_{32}$	$11^{3}/_{8}$	$^{3}/_{16}$	(4)-$1^{1}/_{4}$	$3^{1}/_{2}$	$7^{1}/_{8}$
SAFS 22544	$9^{1}/_{2}$	$32^{3}/_{4}$	$8^{3}/_{4}$	$3^{3}/_{4}$	$27^{7}/_{8}$	$24^{3}/_{4}$	$5^{1}/_{4}$	$18^{7}/_{8}$	$3^{1}/_{8}$	12	$^{3}/_{16}$	(4)-$1^{1}/_{2}$	$3^{5}/_{8}$	$7^{1}/_{4}$

Spherical roller / adapter mount

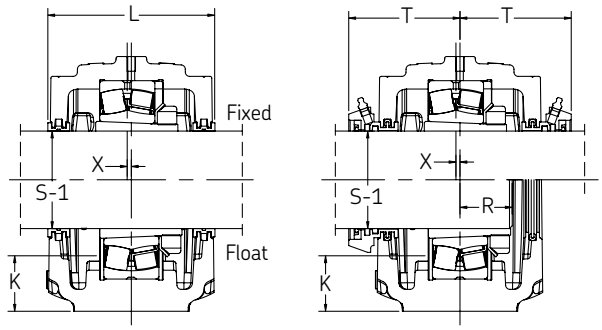
SAFS 22600
Two-piece cast-steel housing
Self-aligning / 22300 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAFS 22515**
Option	Specify
One end closed	SAFS 22620 x $3^{7}/_{16}$Y
Taconite seals	SAFS 22620 x $3^{7}/_{16}$T
Contact seals	SAFS 22620 x $3^{7}/_{16}$-210
Optional shaft size	SAFS 22620 x $3^{1}/_{2}$



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.

Shaft dia.					**Designations**					**Mass**
S-1 Standard	Optional	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SAFS 22620**	22320 EK	SNW 120	SAFS 620	SR 24-20	LOR 102	EPR 12	TER 102	169
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SAFS 22622**	22322 EK	SNW 122	SAFS 622	SR 0-22	LOR 109	EPR 13	TER 109	185
$4^{3}/_{16}$	$4^{1}/_{16}$, $4^{1}/_{8}$, $4^{1}/_{4}$	**SAFS 22624**	22324 CCK/W33	SNW 124	SAFS 624	SR 0-24	LOR 113	EPR 14	TER 113	236
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SAFS 22626**	22326 CCK/W33	SNW 126	SAFS 626	SR 0-26	LOR 117	EPR 15	TER 117	241
$4^{15}/_{16}$	$4^{13}/_{16}$, $4^{7}/_{8}$, 5	**SAFS 22628**	22328 CCK/W33	SNW 128	SAFS 628	SR 0-28	LOR 122	EPR 27	TER 122	326
$5^{3}/_{16}$	$5^{1}/_{8}$, $5^{1}/_{4}$	**SAFS 22630**	22330 CCK/W33	SNW 130	SAFS 630	SR 36-30	LOR 125	EPR 16	TER 125	366
$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SAFS 22632**	22332 CCK/W33	SNW 132	SAFS 632	SR 38-32	LOR 130	EPR 16	TER 130	435
$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SAFS 22634**	22334 CCK/W33	SNW 134	SAFS 634	SR 40-34	LOR 140	EPR 18	TER 140	486
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SAFS 22638**	22338 CCK/W33	SNW 138	SAFS 638	SR 44-38	LOR 155	EPR 20	TER 155	680
$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SAFS 22640**	22340 CCK/W33	SNW 140	SAFS 640	SR 0-40	LOR 159	EPR 21	TER 159	800



Taconite seal option

Spherical roller / adapter mount

SAFS 22600
Two-piece cast-steel housing
Self-aligning / 22300 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	**SAFS 22515**
Option	Specify
One end closed	SAFS 22620 x $3\frac{7}{16}$Y
Taconite seals	SAFS 22620 x $3\frac{7}{16}$T
Contact seals	SAFS 22620 x $3\frac{7}{16}$-210
Optional shaft size	SAFS 22620 x $3\frac{1}{2}$

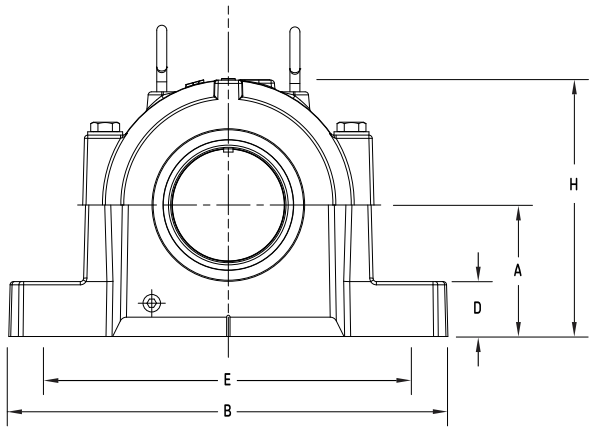
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in													
SAFS 22620	$5\frac{1}{4}$	$16\frac{1}{2}$	$4\frac{3}{4}$	$2\frac{1}{8}$	$14\frac{1}{2}$	$13\frac{1}{4}$	$2\frac{3}{4}$	$10\frac{1}{2}$	$2\frac{1}{32}$	$7\frac{3}{8}$	$\frac{3}{16}$	(4)-$\frac{3}{4}$	$2\frac{7}{16}$	5
SAFS 22622	6	$18\frac{3}{8}$	$5\frac{1}{8}$	$2\frac{3}{8}$	16	$14\frac{5}{8}$	$3\frac{1}{4}$	$11\frac{3}{4}$	$2\frac{13}{32}$	8	$\frac{3}{16}$	(4)-$\frac{7}{8}$	$2\frac{5}{8}$	$5\frac{5}{16}$
SAFS 22624	$6\frac{5}{16}$	$21\frac{1}{4}$	$6\frac{1}{4}$	$2\frac{1}{2}$	$18\frac{1}{4}$	17	$3\frac{3}{4}$	$12\frac{5}{8}$	$2\frac{3}{8}$	$8\frac{3}{8}$	$\frac{3}{16}$	(4)-1	$2\frac{13}{16}$	$5\frac{1}{2}$
SAFS 22626	$6\frac{11}{16}$	22	$6\frac{1}{4}$	$2\frac{5}{8}$	$19\frac{1}{4}$	$17\frac{3}{8}$	$3\frac{3}{4}$	$13\frac{7}{16}$	$2\frac{7}{16}$	$8\frac{3}{4}$	$\frac{3}{16}$	(4)-1	3	$5\frac{11}{16}$
SAFS 22628	$7\frac{1}{16}$	$24\frac{3}{4}$	$6\frac{3}{4}$	$2\frac{3}{4}$	$21\frac{5}{8}$	$19\frac{3}{8}$	$4\frac{1}{4}$	$14\frac{7}{16}$	$2\frac{9}{16}$	$9\frac{3}{4}$	$\frac{3}{16}$	(4)-1	$3\frac{1}{4}$	$6\frac{1}{8}$
SAFS 22630	$7\frac{1}{2}$	$26\frac{3}{4}$	$7\frac{1}{8}$	$2\frac{1}{8}$	$23\frac{5}{8}$	$20\frac{7}{8}$	$4\frac{5}{8}$	$15\frac{5}{16}$	$2\frac{5}{8}$	$9\frac{3}{4}$	$\frac{3}{16}$	(4)-1	$3\frac{7}{16}$	$6\frac{1}{4}$
SAFS 22632	$7\frac{7}{8}$	28	$7\frac{1}{2}$	$3\frac{1}{8}$	$24\frac{3}{8}$	$21\frac{5}{8}$	$4\frac{1}{2}$	$15\frac{15}{16}$	$2\frac{11}{16}$	$10\frac{3}{4}$	$\frac{3}{16}$	(4)-$1\frac{1}{4}$	$3\frac{5}{8}$	$6\frac{11}{16}$
SAFS 22634	$8\frac{1}{4}$	$29\frac{1}{2}$	8	$3\frac{3}{8}$	25	$22\frac{1}{2}$	5	$16\frac{1}{2}$	$2\frac{3}{4}$	$11\frac{3}{8}$	$\frac{3}{16}$	(4)-$1\frac{1}{4}$	$3\frac{3}{4}$	7
SAFS 22638	$9\frac{1}{2}$	$32\frac{3}{4}$	$8\frac{3}{4}$	$3\frac{3}{4}$	$27\frac{7}{8}$	$24\frac{3}{4}$	$5\frac{1}{4}$	$18\frac{7}{8}$	$3\frac{3}{8}$	12	$\frac{3}{16}$	(4)-$1\frac{1}{2}$	$4\frac{1}{16}$	$7\frac{5}{16}$
SAFS 22640	$9\frac{7}{8}$	$34\frac{1}{4}$	9	4	$29\frac{1}{2}$	$26\frac{1}{4}$	$5\frac{1}{2}$	$19\frac{1}{2}$	$3\frac{7}{16}$	$12\frac{3}{8}$	$\frac{3}{16}$	(4)-$1\frac{1}{2}$	$4\frac{1}{8}$	$8\frac{1}{4}$

Spherical roller / adapter mount

SAFS 23000 KA
Two-piece cast-steel housing
Self-aligning / 23000 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

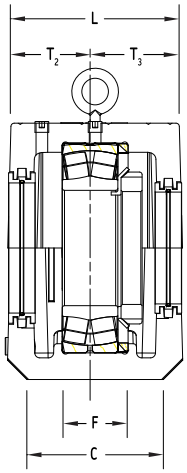
How to order	SAFS 23024 KA
Option	Specify
Four-bolt base	SAFS 23024 KA-11
One end closed	SAFS 23024 KAY
Taconite seals	SAFS 23024 KAT
Contact seals	SAFS 23024 KA-210



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.

Shaft dia.					Designations					Mass
S-1 Standard		Complete pillow block Optional	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$4\frac{3}{16}$	$4\frac{1}{16}$, $4\frac{1}{8}$, $4\frac{1}{4}$	**SAFS 23024 KA/$4\frac{3}{16}$**	23024 CCK/W33	SNW 3024/$4\frac{3}{16}$	SAFS 024 KA/$4\frac{3}{16}$	38151-24	LOR 113	EPR 14	TER 113	88
$4\frac{7}{16}$	$4\frac{5}{16}$, $4\frac{3}{8}$, $4\frac{1}{2}$	**SAFS 23026 KA/$4\frac{7}{16}$**	23026 CCK/W33	SNW 3026/$4\frac{7}{16}$	SAFS 026 KA/$4\frac{7}{16}$	38151-26	LOR 117	EPR 15	TER 117	105
$4\frac{15}{16}$	$4\frac{13}{16}$, $4\frac{7}{8}$, 5	**SAFS 23028 KA/$4\frac{15}{16}$**	23028 CCK/W33	SNW 3028/$4\frac{15}{16}$	SAFS 028 KA/$4\frac{15}{16}$	38053-50	LOR 122	EPR 27	TER 122	125
$5\frac{3}{16}$	$5\frac{1}{8}$, $5\frac{1}{4}$	**SAFS 23030 KA/$5\frac{3}{16}$**	23030 CCK/W33	SNW 3030/$5\frac{3}{16}$	SAFS 030 KA/$5\frac{3}{16}$	SR 0-21	LOR 125	EPR 16	TER 125	169
$5\frac{7}{16}$	$5\frac{3}{8}$, $5\frac{1}{2}$	**SAFS 23032 KA/$5\frac{7}{16}$**	23032 CCK/W33	SNW 3032/$5\frac{7}{16}$	SAFS 032 KA/$5\frac{7}{16}$	38151-32	LOR 130	EPR 16	TER 130	185
$5\frac{15}{16}$	$5\frac{13}{16}$, $5\frac{7}{8}$, 6	**SAFS 23034 KA/$5\frac{15}{16}$**	23034 CCK/W33	SNW 3034/$5\frac{15}{16}$	SAFS 034 KA/$5\frac{15}{16}$	SR 0-24	LOR 140	EPR 18	TER 140	236
$6\frac{7}{16}$	$6\frac{5}{16}$, $6\frac{3}{8}$, $6\frac{1}{2}$	**SAFS 23036 KA/$6\frac{7}{16}$**	23036 CCK/W33	SNW 3036/$6\frac{7}{16}$	SAFS 036 KA/$6\frac{7}{16}$	38151-36	LOR 148	EPR 19	TER 148	241
$6\frac{15}{16}$	$6\frac{13}{16}$, $6\frac{7}{8}$, 7	**SAFS 23038 KA/$6\frac{15}{16}$**	23038 CCK/W33	SNW 3038/$6\frac{15}{16}$	SAFS 038 KA/$6\frac{15}{16}$	38151-38	LOR 155	EPR 20	TER 155	326
$7\frac{3}{16}$	$7\frac{1}{8}$, $7\frac{1}{4}$	**SAFS 23040 KA/$7\frac{3}{16}$**	23040 CCK/W33	SNW 3040/$7\frac{3}{16}$	SAFS 040 KA/$7\frac{3}{16}$	38151-40	LOR 159	EPR 21	TER 159	366
$7\frac{15}{16}$	$7\frac{3}{16}$, $7\frac{7}{8}$, 8	**SAFS 23044 KA/$7\frac{15}{16}$**	23044 CCK/W33	SNW 3044/$7\frac{15}{16}$	SAFS 044 KA/$7\frac{15}{16}$	38053-140	LOR 167	EPR 23	TER 167	435
$8\frac{15}{16}$	$8\frac{7}{16}$, $8\frac{1}{2}$, 9	**SAFS 23048 KA/$8\frac{15}{16}$**	23048 CCK/W33	SNP 3048/$8\frac{15}{16}$	SAFS 048 KA/$8\frac{15}{16}$	A-8897	LOR 552	X-5217-4	TER 552	486
$9\frac{7}{16}$	$9\frac{1}{2}$	**SAFS 23052 KA/$9\frac{7}{16}$**	23052 CCK/W33	SNP 3052/$9\frac{7}{16}$	SAFS 052 KA/$9\frac{7}{16}$	A-8898	LOR 553	X-5217-2	TER 553	680
$9\frac{15}{16}$	10	**SAFS 23056 KA/$9\frac{15}{16}$**	23056 CCK/W33	SNP 3056/$9\frac{15}{16}$	SAFS 056 KA/$9\frac{15}{16}$	A-8819	LOR 607	X-5217-2	TER 607	820
$10\frac{7}{16}$	$10\frac{1}{2}$	**SAFS 23056 KA/$10\frac{7}{16}$**	23056 CCK/W33	SNP 3056/$10\frac{7}{16}$	SAFS 056 KA/$10\frac{7}{16}$	A-8819	LOR 606	X-5217-1	TER 606	800

Size SAFS 23024 KA, two-or four-bolt base options;
Sizes SAFS 23026 KA - SAFS 23056 KA, four-bolt base only.



Spherical roller / adapter mount

SAFS 23000 KA
Two-piece cast-steel housing
Self-aligning / 23000 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

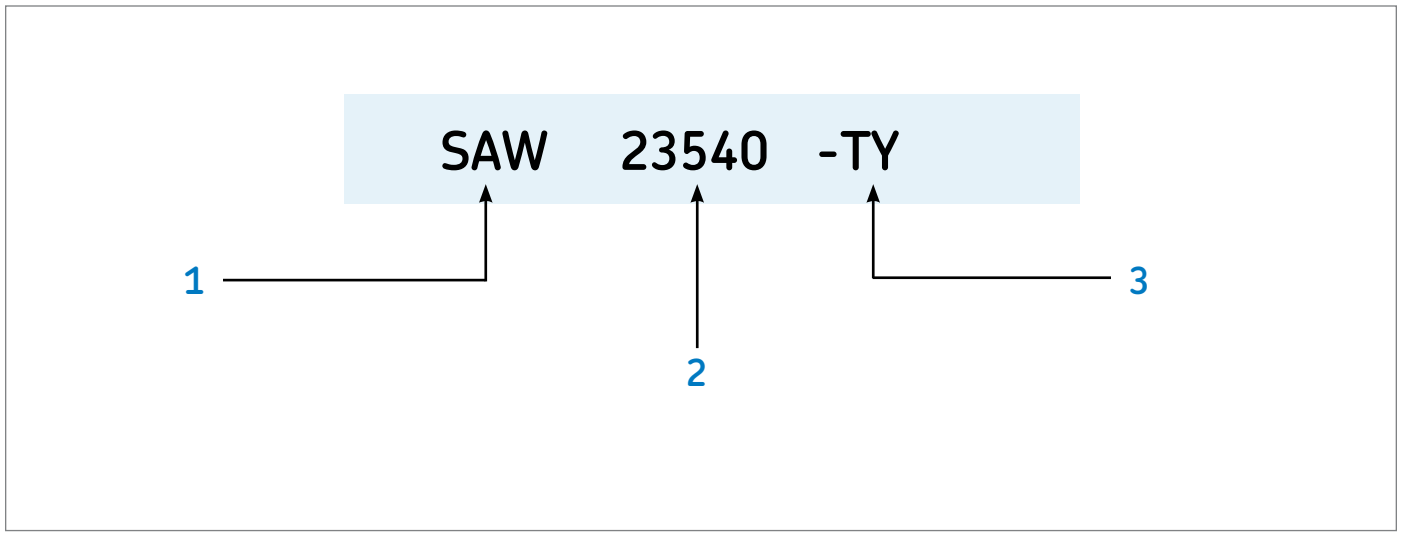
How to order	**SAFS 23024 KA**
Option	Specify
Four-bolt base	SAFS 23024 KA-11
One end closed	SAFS 23024 KAY
Taconite seals	SAFS 23024 KAT
Contact seals	SAFS 23024 KA-210

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a Free unit, discard the enclosed stabilizing ring.

Designations Complete pillow block									**Static oil level**			**Bolts**		
	A	B	C	D	E Max	E Min	F	H	K	L	X	(No. req'd)	R	T
	in													
SAFS 23024 KA/4 3/16	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 7/8	1 9/16	6 1/8	3/16	(2)-7/8, (4)-3/4	1 29/32	4 1/2
SAFS 23026 KA/4 7/16	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 3/4	1 11/16	6 5/8	3/16	(4)-3/4	2 3/32	4 5/8
SAFS 23028 KA/4 15/16	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 1/2	1 13/16	7 3/8	3/16	(4)-3/4	2 5/32	5 1/32
SAFS 23030 KA/5 3/16	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 3/4	2 7/32	8 1/8	3/16	(4)-7/8	2 9/32	5 13/32
SAFS 23032 KA/5 7/16	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 3/4	2 1/32	8 1/8	3/16	(4)-7/8	2 7/16	5 15/32
SAFS 23034 KA/5 15/16	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	12	1 23/32	7 5/8	3/16	(4)-1	2 19/32	5 5/32
SAFS 23036 KA/6 7/16	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 7/16	2 1/16	8 3/4	3/16	(4)-1	2 25/32	5 23/32
SAFS 23038 KA/6 15/16	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 7/16	1 7/8	8 3/4	3/16	(4)-1	2 13/16	5 23/32
SAFS 23040 KA/7 3/16	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 7/16	1 15/16	9 5/8	3/16	(4)-1	3 1/32	6 9/32
SAFS 23044 KA/7 15/16	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 15/16	2 1/4	10 3/4	3/16	(4)-1 1/4	3 7/32	6 23/32
SAFS 23048 KA/8 15/16	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 7/32	11 3/8	3/16	(4)-1 1/4	3 9/16	7 11/16
SAFS 23052 KA/9 7/16	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 7/8	2 3/4	12	3/16	(4)-1 1/2	3 7/8	8 1/16
SAFS 23056 KA/9 15/16	9 7/8	34 1/4	9	4	29 1/2	26 1/4	5 1/2	19 1/2	3 7/16	12 3/8	3/16	(4)-1 1/2	4 1/8	8 1/4
SAFS 23056 KA/10 7/16	9 7/8	34 1/4	9	4	29 1/2	26 1/4	5 1/2	19 1/2	3 7/16	12 3/8	3/16	(4)-1 1/2	4 1/8	8 1/4

Notes

Nomenclature / SAW split pillow blocks



1. Housing style:	
S	Standard pillow block
A	Inch dimensions
W	Wide bearing seat

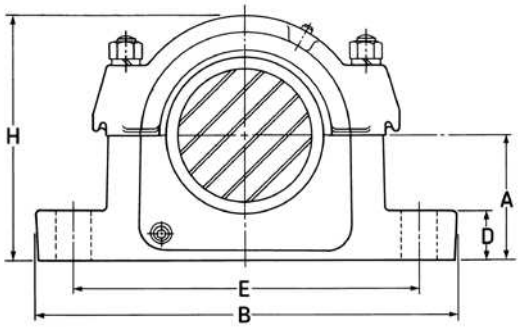
2. Designation:	Basic bearing series	Mounting method
232(00)	232(00) CC/W33	Cylindrical
235(00)	235(00) CCK/W33	Adapter

3. Suffix:	
T	Taconite contact seal
TV	Taconite V-ring seal
TA or TVA	Taconite seal with button head grease fitting
TB or TVB	Taconite seal with giant button head grease fitting
Y	One end closed (i.e.,supplied with end plug)
TLC	PosiTrac Plus seals

Spherical roller / cylindrical mount

SAW 23200
Two-piece cast-iron housing
Self-aligning / 23200 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals
Custom manufactured
Four-bolt base

How to order	SAW 23220
Option	Specify
One end closed	SAW 23220 Y
Taconite seals	SAW 23220 T
PosiTrac Plus seals	SAW 23220-TLC

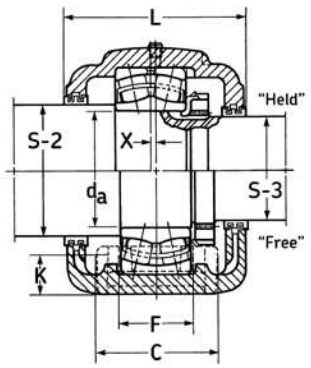


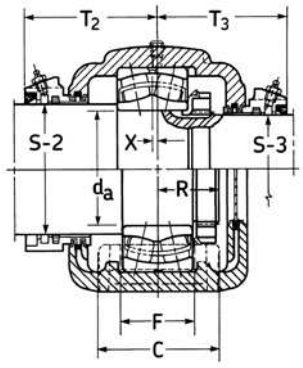
Housing style "N"

For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Shaft dia.			Designations											Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
100	4 1/2	3 13/16	**SAW 23220**	23220 CC/W33	AN 20	W 20	SAW 220	SR 20-17	LOR 118	LOR 106	EPR 12	TER 118	TER 106	80
130	5 7/8	4 15/16	**SAW 23226**	23226 CC/W33	AN 26	W 26	SAW 226	SR 26-0	LOR 136	LOR 122	EPR 27	TER 136	TER 122	155
140	6 1/4	5 5/16	**SAW 23228**	23228 CC/W33	AN 28	W 28	SAW 228	SR 28-0	LOR 144	LOR 127	EPR 16	TER 144	TER 127	180
190	8 3/8	7 1/4	**SAW 23238**	23238 CC/W33	AN 38	W 38	SAW 238	SR 38-32	LOR 171	LOR 160	EPR 21	TER 171	TER 160	430
200	8 3/4	7 5/8	**SAW 23240**	23240 CC/W33	AN 40	W 40	SAW 240	SR 40-34	LOR 175	LOR 164	EPR 22	TER 175	TER 164	515
220	9 9/16	8 5/16	**SAW 23244**	23244 CC/W33	N 44	W 44	SAW 244	SR 44-38	LOR 179	LOR 170	EPR 24	TER 179	TER 170	710

NOTE: All housings are made to order, as an alternative, consider SAFD housings.
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.





Taconite seal option

Spherical roller / cylindrical mount

SAW 23200
Two-piece cast-iron housing
Self-aligning / 23200 series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals
Custom manufactured
Four-bolt base

How to order	**SAW 23220**
Option	Specify
One end closed	SAW 23220 Y
Taconite seals	SAW 23220 T
PosiTrac Plus seals	SAW 23220-TLC

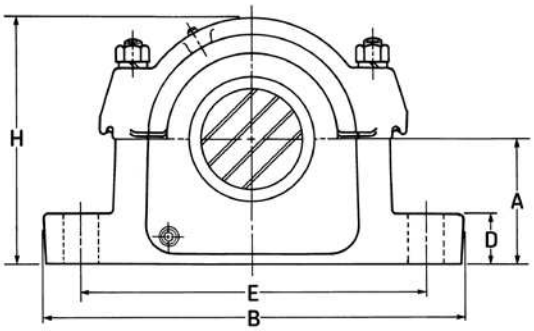
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T_2	T_3
	in														
SAW 23220	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 3/4	–	6 3/16	3/16	(4)-3/4	2 1/16	–	–
SAW 23226	6	18 3/8	5 1/8	2 3/8	16	14 5/8	3 1/4	11 5/16	2 3/8	8 1/2	3/16	(4)-7/8	2 3/4	5 1/2	5 1/2
SAW 23228	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	11 3/4	2 1/16	9 1/8	3/16	(4)-1	2 31/32	5 3/4	5 3/4
SAW 23236	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	2 7/16	10 3/8	3/16	(4)-1	3 21/32	6 1/2	6 1/2
SAW 23238	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	2 1/2	10 7/8	3/16	(4)-1 1/4	3 27/32	7 1/2	7
SAW 23240	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	2 9/16	11 3/8	3/16	(4)-1 1/4	4 1/16	7 11/16	7 1/16
SAW 23244	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	3 3/16	12 1/8	3/16	(4)-1 1/2	4 15/32	8	8 1/16

Spherical roller / adapter mount

SAW 23500
Two-piece cast-iron housing
Self-aligning / 23200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals
Custom manufactured
Four-bolt base

How to order	**SAW 23520**
Option	Specify
One end closed	SAW 23520 Y
Taconite seals	SAW 23520 T
PosiTrac Plus seals	SAW 23520TLC

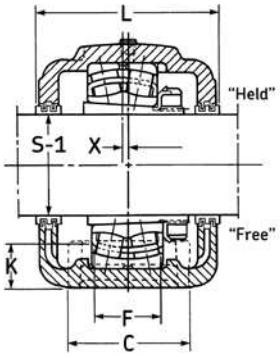


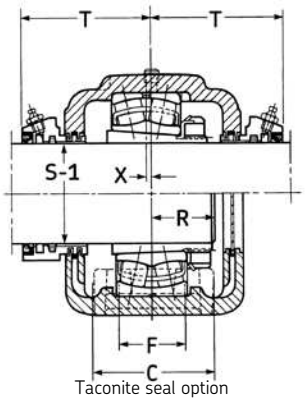
Housing style "N"

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Shaft dia.		**Designations**							**Mass**
S-1	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in									lbs
$3^{7}/_{16}$	**SAW 23520**	23220 CCK/W33	SNW 120	SAW 520	SR 20-17	LOR 102	EPR 12	TER 102	–
$4^{7}/_{16}$	**SAW 23526**	23226 CCK/W33	SNW 126	SAW 526	SR 26-0	LOR 117	EPR 15	TER 117	155
$4^{15}/_{16}$	**SAW 23528**	23228 CCK/W33	SNW 128	SAW 528	SR 28-0	LOR 122	EPR 27	TER 122	180
$6^{15}/_{16}$	**SAW 23538**	23238 CCK/W33	SNW 138	SAW 538	SR 38-32	LOR 155	EPR 21	TER 155	430
$7^{3}/_{16}$	**SAW 23540**	23240 CCK/W33	SNW 140	SAW 540	SR 40-34	LOR 159	EPR 21	TER 159	515
$7^{15}/_{16}$	**SAW 23544**	23244 CCK/W33	SNW 144	SAW 544	SR 44-38	LOR 167	EPR 23	TER 167	710

Note: All housings are made to order; as an alternative consider SAFD housings.





Taconite seal option

Spherical roller / adapter mount

SAW 23500
Two-piece cast-iron housing
Self-aligning / 23200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals
Custom manufactured
Four-bolt base

How to order	**SAW 23520**
Option	Specify
One end closed	SAW 23520 Y
Taconite seals	SAW 23520 T
PosiTrac Plus seals	SAW 23520TLC

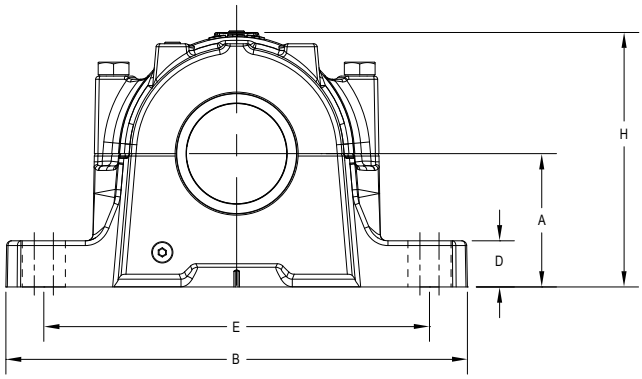
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Designations Complete pillow block									**Static oil level**			**Bolts**		
	A	B	C	D	E Max	E Min	F	H	K	L	X	(No. req'd)	R	T
	in													
SAW 23520	$4\frac{1}{2}$	$15\frac{1}{4}$	$4\frac{3}{8}$	$1\frac{3}{4}$	$13\frac{1}{8}$	$11\frac{5}{8}$	$2\frac{3}{8}$	$8\frac{3}{4}$	–	$6\frac{13}{16}$	$\frac{3}{16}$	(4)-$\frac{1}{2}$	$2\frac{1}{16}$	–
SAW 23526	6	$18\frac{3}{8}$	$5\frac{1}{8}$	$2\frac{3}{8}$	16	$14\frac{5}{8}$	$3\frac{1}{4}$	$11\frac{5}{16}$	$2\frac{3}{8}$	$8\frac{1}{2}$	$\frac{3}{16}$	(4)-$\frac{7}{8}$	$2\frac{3}{4}$	$5\frac{1}{2}$
SAW 23528	6	$20\frac{1}{8}$	$5\frac{7}{8}$	$2\frac{3}{8}$	$17\frac{1}{8}$	16	$3\frac{3}{8}$	$11\frac{3}{4}$	$2\frac{1}{16}$	$9\frac{1}{8}$	$\frac{3}{16}$	(4)-1	$2\frac{31}{32}$	$5\frac{23}{32}$
SAW 23538	$7\frac{7}{8}$	28	$7\frac{1}{2}$	$3\frac{1}{8}$	$24\frac{3}{8}$	$21\frac{5}{8}$	$4\frac{1}{2}$	$15\frac{11}{16}$	$2\frac{1}{2}$	$10\frac{7}{8}$	$\frac{3}{16}$	(4)-1$\frac{1}{4}$	$3\frac{27}{32}$	$6\frac{23}{32}$
SAW 23540	$8\frac{1}{4}$	$29\frac{1}{2}$	8	$3\frac{3}{8}$	25	$22\frac{1}{2}$	5	$16\frac{1}{2}$	$2\frac{9}{16}$	$11\frac{3}{8}$	$\frac{3}{16}$	(4)-1$\frac{1}{4}$	$4\frac{1}{16}$	$7\frac{1}{8}$
SAW 23544	$9\frac{1}{2}$	$32\frac{3}{4}$	$8\frac{3}{4}$	$3\frac{3}{4}$	$27\frac{7}{8}$	$24\frac{3}{4}$	$5\frac{1}{4}$	$18\frac{5}{8}$	$3\frac{3}{16}$	$12\frac{1}{8}$	$\frac{3}{16}$	(4)-1$\frac{1}{2}$	$4\frac{15}{32}$	$7\frac{11}{32}$

Spherical roller / adapter mount

SAFD 22000
Two-piece ductile cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

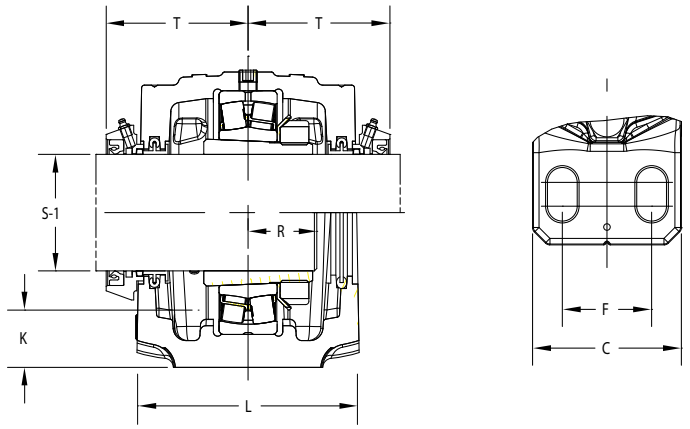
How to order	SAFD 520
Order all components individually.	



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Shaft dia.						**Designations**				**Mass**
S-1 Standard	Optional	Complete pillow block**	Bearing	Adapter assembly	PIllow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
1 7/16	1 1/2	**SAFD 22509**	22209 EK	HA 309	SAFD 509	FRB 3.5/85	LER 17	EPR 3	TER 17	12
1 11/16	1 3/4	**SAFD 22510**	22210 EK	HA310	SAFD 510	FRB 5/90	LER 20	EPR 4	TER 20	13
1 15/16	50mm, 2	**SAFD 22511**	22211 EK	HA311	SAFD 511	FRB 4/100	LER 24	EPR 5	TER 24	16
2 3/16	2 1/4	**SAFD 22513**	22213 EK	HA313	SAFD 513	FRB 4/120	LER 29	EPR 6	TER 29	23
2 7/16	2 1/2	**SAFD 22515**	22215 EK	HA315	SAFD 515	FRB 5/130	LOR37	EPR 7	TER 37	28
2 7/16	2 1/2	**FSAFD 22515**	22215 EK	HA315	FSAFD 515	FRB 5/130	LOR 37	EPR 7	TER 37	28
2 11/16	2 3/4, 70mm	**SAFD 22516**	22216 EK	HA316	SAFD 516	FRB 5/140	LOR 44	EPR 8	TER 44	37
2 11/16	2 3/4, 70mm	**FSAFD 22516**	22216 EK	HA316	FSAFD 516	FRB 5/140	LOR 44	EPR 8	TER 44	37
2 15/16	75mm, 3	**SAFD 22517**	22217 EK	HA317	SAFD 517	FRB 5/150	LOR 53	EPR 9	TER 53	38
2 15/16	75mm, 3	**FSAFD 22517**	22217 EK	HA317	FSAFD 517	FRB 5/150	LOR 53	EPR 9	TER 53	38
3 3/16	80mm, 3 1/4	**SAFD 22518**	22218 EK	HA318	SAFD 518	FRB 11.2/160	LOR 188	EPR 11	TER 188	47
3 3/16	80mm, 3 1/4	**FSAFD 22518**	22218 EK	HA318	FSAFD 518	FRB 11.2/160	LOR 188	EPR 11	TER 188	47
3 7/16	3 1/2, 90mm	**SAFD 22520**	22220 EK	HA320	SAFD 520	FRB 12/180	LOR 102	EPR 12	TER 102	62
3 7/16	3 1/2, 90mm	**FSAFD 22520**	22220 EK	HA320	FSAFD 520	FRB 12/180	LOR 102	EPR 12	TER 102	62
3 15/16	100mm, 4	**SAFD 22522**	22222 EK	HA322	SAFD 522	FRB 13.5/200	LOR 109	EPR 13	TER 109	73

*Optional size shaft require different adapter sleeve and seals.
**Only offered in component format.



Spherical roller / adapter mount

SAFD 22000
Two-piece ductile cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LER / LOR triple ring seals

How to order	SAFD 520
Order all components individually.	

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

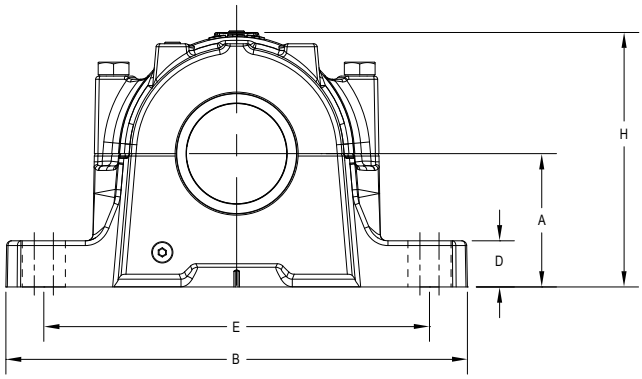
Designations Complete pillow block*									**Static oil level**		**Bolts**		
	A	B	C	D	E Max	E Min	F	H	K	L	(No req'd) R		T
in													
SAFD 22509	2 1/4	8 1/4	2 3/8	13/16	7	6 1/4	–	4 7/16	31/32	3 1/2	(2)-1/2	1 3/32	3 1/32
SAFD 22510	2 1/2	8 1/4	2 3/8	15/16	7	6 1/2	–	4 13/16	1 3/32	3 17/32	(2)-1/2	1 5/32	3 1/4
SAFD 22511	2 3/4	9 5/8	2 3/4	15/16	8 1/4	7 3/8	–	5 1/4	1 3/16	3 7/8	(2)-5/8	1 13/64	3 3/8
SAFD 22513	3	11	3 1/8	1	9 1/2	8 1/8	–	5 13/16	1 3/32	4 1/2	(2)-5/8	1 25/64	3 5/8
SAFD 22515	3 1/4	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 7/32	1 1/8	4 11/16	(2)-5/8	1 7/16	3 13/16
FSAFD 22515	3 1/4	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 7/32	1 1/8	4 11/16	(4)-11/16	1 7/16	3 13/16
SAFD 22516	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 11/16	1 1/4	5	(2)-3/4	1 15/32	4 1/8
FSAFD 22516	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 11/16	1 1/4	5	(4)-5/8	1 15/32	4 1/8
SAFD 22517	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 1/8	1 3/8	5	(2)-3/4	1 9/16	3 29/32
FSAFD 22517	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 1/8	1 3/8	5	(4)-5/8	1 9/16	3 29/32
SAFD 22518	4	13 3/4	3 7/8	1 5/8	11 3/4	10 1/4	2 1/8	7 19/32	1 1/2	5 7/8	(2)-3/4	1 3/4	4 1/16
FSAFD 22518	4	13 3/4	3 7/8	1 5/8	11 3/4	10 1/4	2 1/8	7 19/32	1 1/2	5 7/8	(4)-5/8	1 3/4	4 1/16
SAFD 22520	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 9/16	1 21/32	6 1/8	(2)-7/8	1 59/64	4 3/8
FSAFD 22520	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 9/16	1 21/32	6 1/8	(4)-3/4	1 59/64	4 3/8
SAFD 22522	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 7/16	1 25/32	6 1/2	(4)-3/4	2 1/8	4 9/16

*Only offered in component format.

Spherical roller / adapter mount

SAFD 22000
Two-piece ductile cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

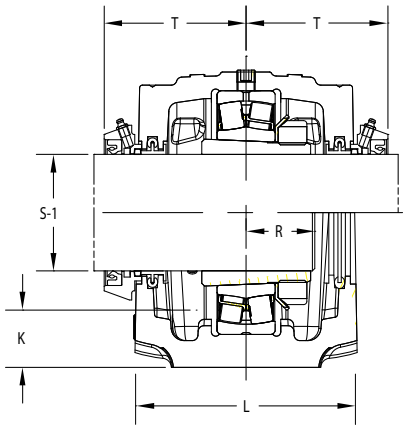
How to order	SAFD 520
Order all components individually.	

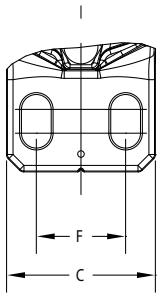


Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Shaft dia.		Designations								Mass
S-1 Standard	Optional	Complete pillow block**	Bearing	Adapter assembly	PIllow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
4 3/16	4 1/4, 110mm	**SAFD 22524**	22224 EK	HA3124	SAFD 524	FRB 14 / 215	LOR 113	EPR 14	TER 113	104
4 7/16	4 1/2, 115mm	**SAFD 22526**	22226 EK	HA3126	SAFD 526	FRB 13 / 230	LOR 117	EPR 15	TER 117	144
4 15/16	125mm, 5	**SAFD 22528**	22228 CCK/W33	HA3128	SAFD 528	FRB 15 / 250	LOR 122	EPR 27	TER 122	153
5 3/16	5 1/4, 135mm	**SAFD 22530**	22230 CCK/W33	HA3130	SAFD 530	FRB 16 5 / 270	LOR 125	EPR 16	TER 125	199
5 7/16	5 1/2, 140mm	**SAFD 22532**	22232 CCK/W33	HA3132	SAFD 532	FRB 17 / 290	LOR 130	EPR 16	TER 130	212
5 15/16	150mm, 6	**SAFD 22534**	22234 CCK/W33	HA3134	SAFD 534	36059-34	LOR 140	EPR 18	TER 140	276
6 7/16	160mm, 6 1/2	**SAFD 22536**	22236 CCK/W33	HA3136	SAFD 536	36059-36	LOR 148	EPR 19	TER 148	301
6 15/16	170mm, 7	**SAFD 22538**	22238 CCK/W33	HA3138	SAFD 538	36059-38	LOR 155	EPR 21	TER 155	374
7 3/16	180, 7 1/4	**SAFD 22540**	22240 CCK/W33	SNW 40x7 3/16	SAFD 540	36059-40	LOR 159	EPR 21	TER 159	443
7 15/16	200mm, 8	**SAFD 22544**	22244 CCK/W33	SNW 44x7 15/16	SAFD 544	36059-44	LOR 167	EPR 23	TER 167	577

*Optional size shaft require different adapter sleeve and seals.
**Only offered in component format.





Spherical roller / adapter mount

SAFD 22000
Two-piece ductile cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	SAFD 520
Order all components individually.	

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

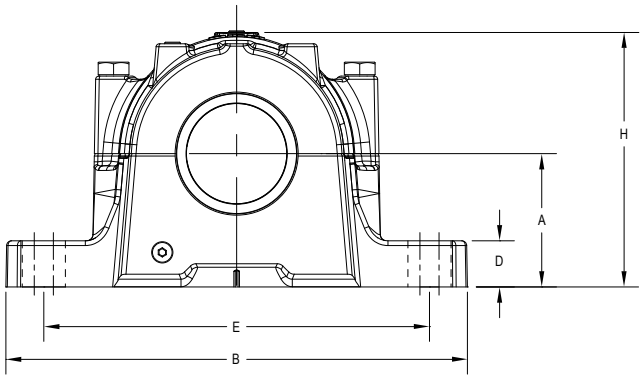
Designations Complete pillow block*	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	**Bolts** (No req'd) R	T
in												
SAFD 22524	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 1/8	1 27/32	7 3/8	(4)-3/4	2 9/32	5
SAFD 22526	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/8	2 11/32	7 5/8	(4)-7/8	2 15/32	5 5/16
SAFD 22528	6	20 1/8	5 7/8	2 3/8	17 3/8	15 5/8	3 3/8	12 1/32	2 1/32	7 5/8	(4)-1	2 29/64	5 1/8
SAFD 22530	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 5/8	2	8 1/2	(4)-1	2 39/64	5 1/2
SAFD 22532	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 1/4	2 1/16	8 3/4	(4)-1	2 31/32	5 11/16
SAFD 22534	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 5/32	9 9/16	(4)-1	3 1/8	6 1/16
SAFD 22536	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	2 3/8	9 7/8	(4)-1	3 9/64	6 1/4
SAFD 22538	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 13/16	2 7/16	10 3/4	(4)-1 1/4	3 19/64	6 11/16
SAFD 22540	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 5/8	2 15/32	11 1/4	(4)-1 1/4	3 1/2	7 1/16
SAFD 22544	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 11/16	3 1/8	12	(4)-1 1/2	3 5/8	7 1/4

*Only offered in component format.

Spherical roller / adapter mount

SAFD 23000
Two-piece ductile cast-iron housing
Self-aligning / 23200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

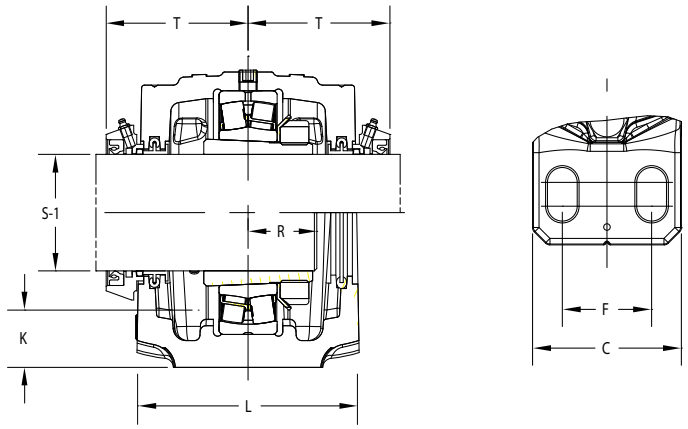
How to order	SAFD 520
Order all components individually.	



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Shaft dia.		Designations								Mass
S-1 Standard	Optional	Complete pillow block**	Bearing	Adapter assembly	Pllow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
3 3/16	80mm, 3 1/4	**SAFD 23518**	23218 CCK/W33	HA2318	SAFD 518	FRB 5 / 160	LOR 188	EPR 11	TER 188	47
3 3/16	80mm, 3 1/4	**FSAFD 23518**	23218 CCK/W33	HA2318	FSAFD 518	FRB 5 / 160	LOR 188	EPR 11	TER 188	47
3 7/16	3 1/2, 90mm	**SAFD 23520**	23220 CCK/W33	HA2320	SAFD 520	FRB 4.85 / 180	LOR 102	EPR 12	TER 102	62
3 7/16	3 1/2, 90mm	**FSAFD 23520**	23220 CCK/W33	HA2320	FSAFD 520	FRB 4.85 / 180	LOR 102	EPR 12	TER 102	62
3 15/16	100mm, 4	**SAFD 23522**	23222 CCK/W33	H2322	SAFD 522	FRB 5.1 / 200	LOR 109	EPR 13	TER 109	73
4 3/16	4 1/4, 110mm	**SAFD 23524**	23224 CCK/W33	HA2324	SAFD 524	FRB 5 / 215	LOR 113	EPR 14	TER 113	104
4 7/16	4 1/2, 115mm	**SAFD 23526**	23226 CCK/W33	HA2326	SAFD 526	FRB 5 / 230	LOR 117	EPR 15	TER 117	144
4 15/16	125mm, 5	**SAFD 23528**	23228 CCK/W33	HA2328	SAFD 528	FRB 5/250	LOR 122	EPR 27	TER 122	153
5 3/16	5 1/4, 135mm	**SAFD 23530**	23230 CCK/W33	HA2330	SAFD 530	FRB 5 / 270	LOR 125	EPR 16	TER 125	199
5 7/16	5 1/2, 140mm	**SAFD 23532**	23232 CCK/W33	HA2332	SAFD 532	FRB 5 / 290	LOR 130	EPR 16	TER 130	212
5 15/16	150mm, 6	**SAFD 23534**	23234 CCK/W33	HA2334	SAFD 534	35072-34	LOR 140	EPR 18	TER 140	276
6 7/16	160mm, 6 1/2	**SAFD 23536**	23236 CCK/W33	HA2336	SAFD 536	35072-36	LOR 148	EPR 19	TER 148	301
6 15/16	170mm, 7	**SAFD 23538**	23238 CCK/W33	HA2338	SAFD 538	35072-38	LOR 155	EPR 21	TER 155	374
7 3/16	180, 7 1/4	**SAFD 23540**	23240 CCK/W33	HA2340 or SNW 140x7 3/16	SAFD 540	35072-40	LOR 159	EPR 21	TER 159	443
7 15/16	200mm, 8	**SAFD 23544**	23244 CCK/W33	SNW 144x7 15/16	SAFD 544	35072-44	LOR 167	EPR 23	TER 167	577

*Optional size shaft require different adapter sleeve and seals.
**Only offered in component format.



Spherical roller / adapter mount

SAFD 23000
Two-piece ductile cast-iron housing
Self-aligning / 23200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR triple ring seals

How to order	SAFD 520
Order all components individually.	

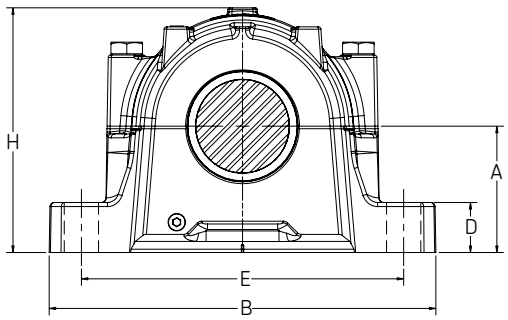
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see pages 347-350.

Designations Complete pillow block*									**Static oil level**		**Bolts**		
	A	B	C	D	E Max	E Min	F	H	K	L	(No req'd)	R	T
in													
SAFD 23518	4	13 3/4	3 7/8	1 5/8	11 3/4	10 1/4	2 1/8	7 19/32	1 1/2	5 7/8	(2)-3/4	1 3/4	4 1/16
FSAFD 23518	4	13 3/4	3 7/8	1 5/8	11 3/4	10 1/4	2 1/8	7 19/32	1 1/2	5 7/8	(4)-5/8	1 3/4	4 1/16
SAFD 23520	4.5	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 9/16	1 21/32	6 1/8	(2)-7/8	1 59/64	4 3/8
FSAFD 23520	4.5	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 9/16	1 21/32	6 1/8	(4)-3/4	1 59/64	4 3/8
SAFD 23522	4.938	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 7/16	1 25/32	6 1/2	(4)-3/4	2 1/8	4 9/16
SAFD 23524	5.25	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 1/8	1 27/32	7 3/8	(4)-3/4	2 9/32	5
SAFD 23526	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/8	2 11/32	7 5/8	(4)-7/8	2 15/32	5 5/16
SAFD 23528	6	20 1/8	5 7/8	2 3/8	17 3/8	15 5/8	3 3/8	12 1/32	2 1/32	7 5/8	(4)-1	2 29/64	5 1/8
SAFD 23530	6.312	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 5/8	2	8 1/2	(4)-1	2 39/64	5 1/2
SAFD 23532	6.688	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 1/4	2 1/16	8 3/4	(4)-1	2 31/32	5 11/16
SAFD 23534	7.062	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	2 5/32	9 9/16	(4)-1	3 1/8	6 1/16
SAFD 23536	7.5	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	2 3/8	9 7/8	(4)-1	3 9/64	6 1/4
SAFD 23538	7.875	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 13/16	2 7/16	10 3/4	(4)-1 1/4	3 19/64	6 11/16
SAFD 23540	8.25	29 1/2	8	3 3/8	25	22 1/2	5	16 5/8	2 15/32	11 1/4	(4)-1 1/4	3 1/2	7 1/16
SAFD 23544	9.5	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 11/16	3 1/8	12	(4)-1 1/2	3 5/8	7 1/4

*Only offered in component format.

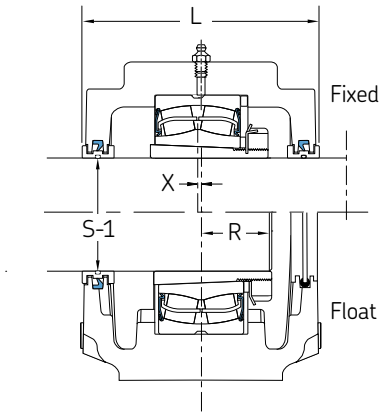
Sealed Spherical roller / adapter mount

SAFB 22500
Two-piece cast-iron housing
Self-aligning bearing
Held or free bearing
Grease lubrication
LORP triple ring seals with contact element



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 351-352.

Shaft dia.			**Designations**						**Mass**
S-1 Std.	Complete pillow block	Bearing	Adapter assembly	Spacer ring	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	
in									lbs
$2^{7}/_{16}$	**(F)SAF B22515 HTLC**	BS2-22215 2RSK/VT143	SNW 15 x $2^{7}/_{16}$	SR-BS2-2215	FSAF 515	FRB 5/130	LOR 37	EPR 7	28
$2^{11}/_{16}$	**SAF B22516 HTLC**	BS2-22216 2RSK/VT143	SNW 16 x $2^{11}/_{16}$	SR-BS2-2216	FSAF 516	FRB 5/140	LOR 44	EPR 8	37
$2^{15}/_{16}$	**(F)SAF B22517 HTLC**	BS2-22217 2RSK/VT143	SNW 17 x $2^{15}/_{16}$	SR-BS2-2217	FSAF 517	FRB 5/150	LOR 53	EPR 9	38
$3^{3}/_{16}$	**(F)SAF B22518 HTLC**	BS2-22218 2RSK/VT143	SNW 118 x $3^{3}/_{16}$	SR-BS2-2218	FSAF 518	FRB 5/160	LOR 188	EPR 11	47
$3^{7}/_{16}$	**(F)SAF B22520 HTLC**	BS2-22220 2RSK/VT143	SNW 120 x $3^{7}/_{16}$	SR-BS2-2220	FSAF 520	FRB 5/180	LOR 102	EPR 12	62
$3^{15}/_{16}$	**SAF B22522 HTLC**	BS2-22222 2RSK/VT143	SNW 122 x $3^{15}/_{16}$	–	SAF 522	FRB 5/200	LOR 109	EPR 13	73
$4^{3}/_{16}$	**SAF B22524 HTLC**	BS2-22224 2RSK/VT143	SNW 124 x $4^{3}/_{16}$	SR-BS2-2224	SAF 524	FRB 5/230	LOR 113	EPR 14	104
$4^{7}/_{16}$	**SAF B22526 HTLC**	BS2-22226 2CSSK/VT143	OSNW 126 x $4^{7}/_{16}$	SR-BS2-2226	SAF 526	SR 28-0	LOR 117	EPR 15	144
$4^{15}/_{16}$	**SAF B22528 HTLC**	22228 2CSSK/VT143	OSNW 28 x $4^{15}/_{16}$	SR-22228-2CS5	SAF 528	SR 30-0	LOR 122	EPR 27	153
$5^{3}/_{16}$	**SAF B22530 HTLC**	22230 2CSSK/VT143	OSNW 30 x $5^{3}/_{16}$	SR-22230-2CS5	SAF 530	SR 32-0	LOR 125	EPR 16	199
$5^{7}/_{16}$	**SAF B22532 HTLC**	22232 2CSSK/VT143	OSNW 32 x $5^{7}/_{16}$	SR-22232-2CS5	SAF 532	SR 34-0	LOR 130	EPR 16	212
$5^{15}/_{16}$	**SAF B22534 HTLC**	22232 2CSSK/VT143	OSNW 34 x $5^{15}/_{16}$	SR-22234-2CS5	SAF 532	SR 34-0	LOR 140	EPR 18	276
$6^{7}/_{16}$	**SAF B22536 HTLC**	22236 2CSSK/VT143	OSNW 36 x $6^{7}/_{16}$	SR-22236-2CS5	SAF 536	SR 36-30	LOR 148	EPR 19	301
$6^{15}/_{16}$	**SAF B22538 HTLC**	22238 2CSSK/VT143	OSNW 38 x $6^{15}/_{16}$	SR-22238-2CS5	SAF 538	SR 38-32	LOR 155	EPR 21	374
$7^{3}/_{16}$	**SAF B22540 HTLC**	22240 2CSSK/VT143	OSNW 40 x $7^{3}/_{16}$	SR-22240-2CS5	SAF 540	SR 40-34	LOR 159	EPR 21	443
$7^{15}/_{16}$	**SAF B22544 HTLC**	22244 2CSSK/VT143	OSNW 44 x $7^{15}/_{16}$	–	SAF 544	SR 44-38	LOR 167	EPR 23	577



Sealed Spherical roller / adapter mount

SAFB 22500
Two-piece cast-iron housing
Self-aligning bearing
Held or free bearing
Grease lubrication
LORP triple ring seals with contact element

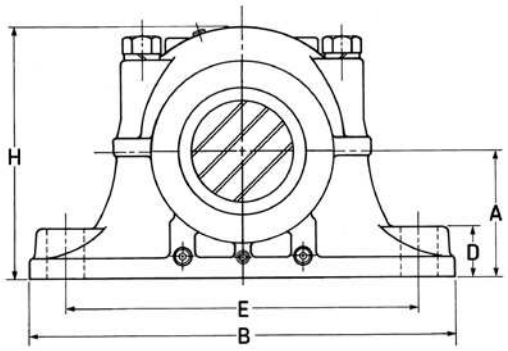
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 351-352.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	L	X	**Bolts** (No. req'd)	R
	in											
(F)SAF B22515 HTLC	3 1/4	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 1/8	4 11/16	7/64	(2)-5/8, (4)-1/2	1 7/16
SAF B22516 HTLC	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 19/32	5 5/16	7/64	(2)-3/4, (4)-5/8	1 15/32
(F)SAF B22517 HTLC	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 1/8	5	7/64	(2)-3/4, (4)-5/8	1 9/16
(F)SAF B22518 HTLC	4	13 3/4	3 7/8	1 5/8	11 5/8	10 3/8	2 1/8	7 9/16	5 7/8	7/64	(2)-3/4, (4)-5/8	1 3/4
(F)SAF B22520 HTLC	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 5/8	2 3/8	8 15/32	6 1/8	7/64	(2)-7/8, (4)-3/4	1 59/64
SAF B22522 HTLC	4 15/16	16 1/2	4 3/4	2	14 1/2	12 5/8	2 3/4	9 11/32	6 1/2	7/64	(4)-3/4	2 1/8
SAF B22524 HTLC	5 1/4	16 1/2	4 3/4	2 1/8	14 1/2	13 1/4	2 3/4	10 3/16	7 3/8	7/64	(4)-3/4	2 9/32
SAF B22526 HTLC	6	18 3/8	5 1/4	2 3/8	16	14 5/8	3 1/4	11 5/16	8 1/8	7/64	(4)-7/8	2 15/32
SAF B22528 HTLC	6	20 1/8	5 7/8	2 3/8	17 1/8	16	3 3/8	11 3/4	7 5/8	3/16	(4)-1	2 29/64
SAF B22530 HTLC	6 5/16	21 1/4	6 1/4	2 1/2	18 1/4	17	3 3/4	12 1/2	8 3/8	3/16	(4)-1	2 39/64
SAF B22532 HTLC	6 11/16	22	6 1/4	2 5/8	19 1/4	17 3/8	3 3/4	13 5/16	8 3/4	3/16	(4)-1	2 31/32
SAF B22534 HTLC	7 1/16	24 3/4	6 3/4	2 3/4	21 5/8	19 3/8	4 1/4	14 3/16	9 5/8	3/16	(4)-1	3 1/8
SAF B22536 HTLC	7 1/2	26 3/4	7 1/8	3	23 5/8	20 7/8	4 5/8	14 7/8	10	3/16	(4)-1	3 9/64
SAF B22538 HTLC	7 7/8	28	7 1/2	3 1/8	24 3/8	21 5/8	4 1/2	15 11/16	10 3/4	3/16	(4)-1 1/4	3 19/646
SAF B22540 HTLC	8 1/4	29 1/2	8	3 3/8	25	22 1/2	5	16 1/2	11 1/4	3/16	(4)-1 1/4	3 1/2
SAF B22544 HTLC	9 1/2	32 3/4	8 3/4	3 3/4	27 7/8	24 3/4	5 1/4	18 5/8	12	3/16	(4)-1 1/2	3 5/8w

Spherical roller / cylindrical mount

SDAF 22200
Two-piece heavy duty cast-iron housing
Self-aligning / 22200 series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

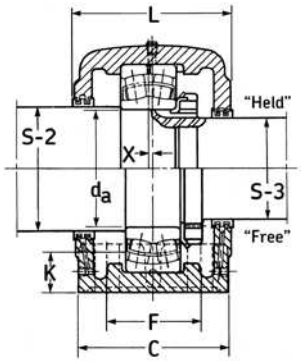
How to order	SDAF 22220
Option	Specify
One end closed	SDAF 22220Y
Taconite seals	SDAF 22220T
Cast-steel	SDAFS 22220

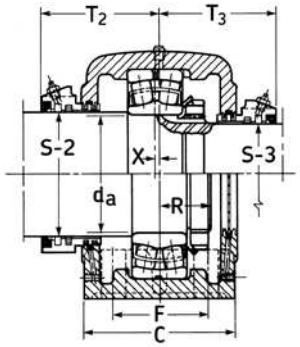


Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 351-352.

Shaft dia.			Designations										Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in													lbs
100	4 1/2	3 13/16	**SDAF 22220**	22220 E	AN 20	W 20	SDAF 220	SR 20-17	LER 205	LER 87	EPR 12	TER 205	TER 87	80
110	4 7/8	4 3/16	**SDAFS 22222***	22222 E	AN 22	W 22	SDAFS 222	SR 22-19	LOR 121	LOR 113	EPR 14	TER 121	TER 113	102
120	5 5/16	4 9/16	**SDAF 22224**	22224 E	AN 24	W 24	SDAF 224	SR 24-20	LOR 127	LOR 119	EPR 15	TER 127	TER 119	118
130	5 7/8	4 15/16	**SDAF 22226**	22226 E	AN 26	W 26	SDAF 226	SR 26-0	LOR 136	LOR 122	EPR 27	TER 136	TER 122	169
140	6 1/4	5 5/16	**SDAFS 22228***	22228 CC/W33	AN 28	W 28	SDAFS 228	SR 28-0	LOR 144	LOR 127	–	TER 144	TER 127	175
150	6 5/8	5 3/4	**SDAF 22230**	22230 CC/W33	AN 30	W 30	SDAF 230	SR 30-0	LOR 151	LOR 134	EPR 17	TER 151	TER 134	200
160	7	6 1/16	**SDAF 22232**	22232 CC/W33	AN 32	W 32	SDAF 232	SR 32-0	LOR 156	LOR 142	EPR 18	TER 156	TER 142	264
180	7 13/16	6 7/8	**SDAF 22236**	22236 CC/W33	AN 36	W 36	SDAF 236	SR 36-30	LOR 165	LOR 154	EPR 20	TER 165	TER 154	436
190	8 3/8	7 1/4	**SDAF 22238**	22238 CC/W33	AN 38	W 38	SDAF 238	SR 38-32	LER 240	LER 229	EPR 22	TER 240	TER 229	510
200	8 3/4	7 5/8	**SDAF 22240**	22240 CC/W33	AN 40	W 40	SDAF 240	SR 40-34	LER 244	LER 233	EPR 23	TER 244	TER 233	389
220	9 9/16	8 5/16	**SDAF 22244**	22244 CC/W33	N 44	W 44	SDAF 244	SR 44-38	LER 248	LER 239	EPR 25	TER 248	TER 239	787

*Available in steel only





Taconite seal option

Spherical roller / cylindrical mount

SDAF 22200
Two-piece heavy duty cast-iron housing
Self-aligning / 22200 series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

How to order	SDAF 22220
Option	Specify
One end closed	SDAF 22220Y
Taconite seals	SDAF 22220T
Cast-steel	SDAFS 22220

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 351-352.

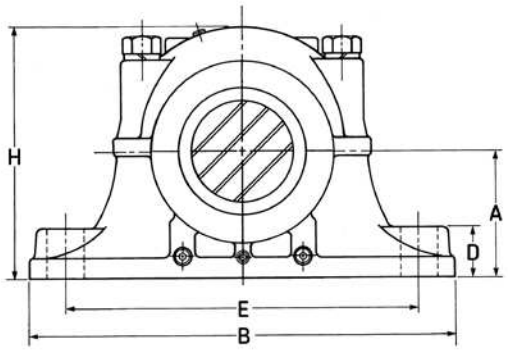
Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T_2	T_3
	in														
SDAF 22220	4 1/2	15 1/4	6	1 7/8	13 1/8	11 5/8	3 3/8	8 15/16	1 21/32	6 3/4	3/16	(4)-3/4	1 59/64	4 11/16	4 11/16
SDAFS 22222	4 15/16	16 1/2	6 3/4	2 1/8	14 1/2	12 5/8	4	9 7/8	1 13/16	7 1/4	3/16	(4)-7/8	2 1/8	4 7/8	4 7/8
SDAF 22224	5 1/4	16 1/2	6 7/8	2 1/4	14 1/2	13 1/4	4 1/8	10 1/2	1 27/32	7 3/8	3/16	(4)-7/8	2 9/32	4 15/16	4 15/16
SDAF 22226	6	18 3/8	7 1/2	2 3/8	16	14 5/8	4 1/2	11 7/8	2 11/32	8	3/16	(4)-1	2 15/32	5 1/4	5 1/4
SDAFS 22228	6	20 1/8	7 1/2	2 3/8	17 1/8	16	4 1/2	12 1/16	2 1/8	7 3/16	3/16	(4)-1	–	–	–
SDAF 22230	6 5/16	21 1/4	7 7/8	2 1/2	18 1/4	17	4 3/4	12 9/16	2 1/32	8 3/8	3/16	(4)-1 1/8	2 49/64	5 7/16	5 7/16
SDAF 22232	6 11/16	22	8 1/4	2 1/2	19 1/4	17 3/8	5	13 7/16	2 3/32	8 3/4	3/16	(4)-1 1/8	2 31/32	5 5/8	5 5/8
SDAF 22236	7 1/2	26 3/4	9 3/8	2 3/4	23 5/8	20 7/8	5 7/8	15 3/16	2 3/8	10	3/16	(4)-1 1/4	3 9/64	6 1/8	6 1/8
SDAF 22238	7 7/8	27 5/8	10	3	23 1/2	21 1/2	6 1/4	16	2 7/16	10 5/8	3/16	(4)-1 3/8	3 19/64	7 1/4	7 1/4
SDAF 22240	8 1/4	28 3/4	10 1/2	3 1/4	25	23	6 3/4	16 7/8	2 1/2	11 1/8	3/16	(4)-1 3/8	3 1/2	7 1/2	7 1/2
SDAF 22244	9 1/2	32	11 1/4	3 1/2	27 7/8	25 5/8	7 1/4	19	3 1/8	11 7/8	3/16	(4)-1 1/2	3 5/8	7 7/8	7 7/8

Spherical roller / cylindrical mount

SDAF 22300

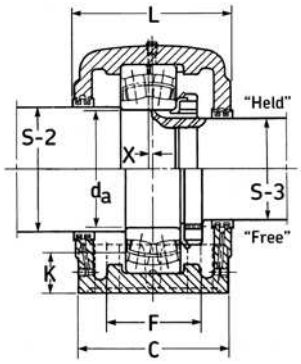
Two-piece heavy duty cast-iron housing
Self-aligning / 22300 series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

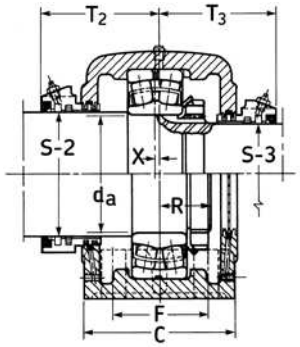
How to order	SDAF 22320
Option	Specify
One end closed	SDAF 22320Y
Taconite seals	SDAF 22320T
Cast-steel	SDAFS 22320



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 351-352.

Shaft dia.		Designations											Mass
d_a		Complete pillow block	Bearing	Lock-nut	Lock-washer	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	End plug	Taconite seal S-2	S-3	
mm	in												lbs
85	$3^{15}/_{16}$ $3^{3}/_{16}$	**SDAF 22317**	22317 E	AN 17	W 17	SDAF 317	SR 20-17	LER 93	LER 69	EPR 11	TER 93	TER 69	83
100	$4^{1}/_{2}$ $3^{13}/_{16}$	**SDAF 22320**	22320 E	AN 20	W 20	SDAF 320	SR 24-20	LER 205	LER 87	EPR 12	TER 205	TER 87	141
110	$4^{7}/_{8}$ $4^{3}/_{16}$	**SDAF 22322**	22322 E	AN 22	W 22	SDAF 322	SR 0-22	LOR 121	LOR 113	EPR 14	TER 121	TER 113	172
120	$5^{5}/_{16}$ $4^{9}/_{16}$	**SDAF 22324**	22324 CC/W33	AN 24	W 24	SDAF 324	SR 0-24	LOR 127	LOR 119	EPR 15	TER 127	TER 119	304
130	$5^{7}/_{8}$ $4^{15}/_{16}$	**SDAF 22326**	22326 CC/W33	AN 26	W 26	SDAF 326	SR 0-26	LOR 136	LOR 122	EPR 27	TER 136	TER 122	330
140	$6^{1}/_{4}$ $5^{5}/_{16}$	**SDAF 22328**	22328 CC/W33	AN 28	W 28	SDAF 328	SR 0-28	LOR 144	LOR 127	EPR 16	TER 144	TER 127	331
150	$6^{5}/_{8}$ $5^{3}/_{4}$	**SDAF 22330**	22330 CC/W33	AN 30	W 30	SDAF 330	SR 36-30	LOR 151	LOR 134	EPR 17	TER 151	TER 134	466
160	7 $6^{1}/_{16}$	**SDAF 22332**	22332 CC/W33	AN 32	W 32	SDAF 332	SR 38-32	LER 225	LER 217	EPR 19	TER 225	TER 217	537
170	$7^{7}/_{16}$ $6^{7}/_{16}$	**SDAF 22334**	22334 CC/W33	AN 34	W 34	SDAF 334	SR 40-34	LER 230	LER 220	EPR 26	TER 230	TER 220	554
180	$7^{13}/_{16}$ $6^{7}/_{8}$	**SDAF 22336**	22336 CC/W33	AN 36	W 36	SDAF 336	SR 0-36	LER 234	LER 223	EPR 21	TER 234	TER 223	623
190	$8^{3}/_{8}$ $7^{1}/_{4}$	**SDAF 22338**	22338 CC/W33	AN 38	W 38	SDAF 338	SR 44-38	LER 240	LER 229	EPR 22	TER 240	TER 229	734





Taconite seal option

Spherical roller / cylindrical mount

SDAF 22300
Two-piece heavy duty cast-iron housing
Self-aligning / 22300 series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

How to order	**SDAF 22320**
Option	Specify
One end closed	SDAF 22320Y
Taconite seals	SDAF 22320T
Cast-steel	SDAFS 22320

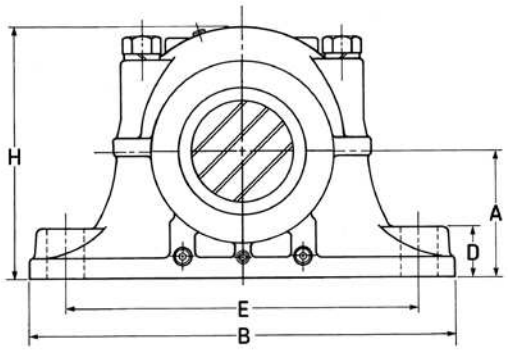
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 351-352.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T_2	T_3
	in														
SDAF 22317	4 1/2	15 1/4	6	1 7/8	13 1/8	11 5/8	3 3/8	8 15/16	1 25/32	6 3/4	3/16	(4)-3/4	2 1/16	4 3/4	4 3/4
SDAF 22320	5 1/4	16 1/2	6 7/8	2 1/4	14 1/2	13 1/4	4 1/8	10 1/2	2 1/32	7 3/8	3/16	(4)-7/8	2 7/16	5	5
SDAF 22322	6	18 3/8	7 1/2	2 3/8	16	14 5/8	4 1/2	11 7/8	2 13/32	8	3/16	(4)-1	2 5/8	5 1/4	5 1/4
SDAF 22324	6 5/16	21 1/4	7 7/8	2 1/2	18 1/4	17	4 3/4	12 9/16	2 13/32	8 3/8	3/16	(4)-1 1/8	2 13/16	5 7/16	5 7/16
SDAF 22326	6 11/16	22	8 1/4	2 1/2	19 1/4	17 3/8	5	13 7/16	2 15/32	8 3/4	3/16	(4)-1 1/8	3	5 5/8	5 5/8
SDAF 22328	7 1/16	24 3/4	9	2 1/2	21 5/8	19 3/8	5 1/2	14 1/4	2 9/16	9 3/8	3/16	(4)-1 1/4	3 1/4	6 1/16	6 1/16
SDAF 22330	7 1/2	26 3/4	9 3/8	2 3/4	23 5/8	20 7/8	5 7/8	15 3/16	2 5/8	9 3/4	3/16	(4)-1 1/4	3 7/16	6 1/8	6 1/8
SDAF 22332	7 7/8	27 5/8	10	3	23 1/2	21 1/2	6 1/4	16	2 23/32	10 5/8	3/16	(4)-1 3/8	3 5/8	6 1/2	6 1/2
SDAF 22334	8 1/4	28 3/4	10 1/2	3 1/4	25	23	6 3/4	16 7/8	2 3/4	11 1/8	3/16	(4)-1 3/8	3 3/4	6 7/8	6 7/8
SDAF 22336	8 7/8	30 1/2	10 3/4	3 1/4	26 3/8	24 1/8	6 7/8	17 15/16	3 1/16	11 3/8	3/16	(4)-1 1/2	3 7/8	6 7/8	6 7/8
SDAF 22338	9 1/2	32	11 1/4	3 1/2	27 7/8	25 5/8	7 1/4	19	3 13/32	11 7/8	3/16	(4)-1 1/2	4 1/16	7 7/8	7 7/8

Spherical roller / adapter mount

SDAF 22500
Two-piece heavy duty cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

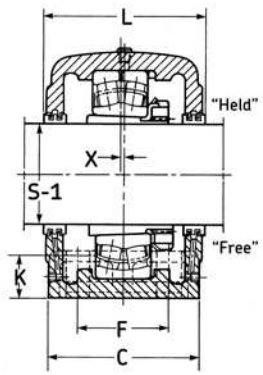
How to order	SDAF 22520
Option	Specify
One end closed	SDAF 22520Y
Taconite seals	SDAF 22520T
Cast-Steel	SDAFS 22520
Optional shaft size	SDAF 22520 x $3^{1}/_{2}$

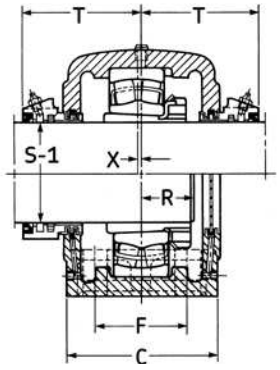


Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 351-352.

Shaft dia.		Designations								Mass
S-1 Standard	Optional	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal	End plug (2 req'd)	Taconite seal	
in										lbs
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SDAF 22520**	22220 EK	SNW 20	SDAF 520	SR 20-17	LER 75	EPR 11	TER 75	96
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SDAFS 22522***	22222 EK	SNW 22	SDAFS 522	SR 22-19	LER 93	EPR 13	TER 93	105
$4^{3}/_{16}$	$4^{1}/_{16}$, $4^{1}/_{8}$, $4^{1}/_{4}$	**SDAF 22524**	22224 EK	SNW 24	SDAF 524	SR 24-20	LOR 113	EPR 14	TER 113	125
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SDAF 22526**	22226 EK	SNW 26	SDAF 526	SR 26-0	LOR 117	EPR 15	TER 117	199
$4^{15}/_{16}$	$4^{13}/_{16}$, $4^{7}/_{8}$, 5	**SDAFS 22528***	22228 CCK/W33	SNW 28	SDAFS 528	SR 28-0	LOR 122	EPR 27	TER 122	220
$5^{3}/_{16}$	$5^{1}/_{8}$, $5^{1}/_{4}$	**SDAF 22530**	22230 CCK/W33	SNW 30	SDAF 530	SR 30-0	LOR 125	EPR 16	TER 125	259
$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SDAF 22532**	22232 CCK/W33	SNW 32	SDAF 532	SR 32-0	LOR 130	EPR 16	TER 130	330
$6^{7}/_{16}$	$6^{5}/_{16}$, $6^{3}/_{8}$, $6^{1}/_{2}$	**SDAF 22536**	22236 CCK/W33	SNW 36	SDAF 536	SR 36-30	LOR 148	EPR 19	TER 148	403
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SDAF 22538**	22238 CCK/W33	SNW 38	SDAF 538	SR 38-32	LER 224	EPR 21	TER 224	454
$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SDAF 22540**	22240 CCK/W33	SNW 40	SDAF 540	SR 40-34	LER 228	EPR 22	TER 228	544
$7^{15}/_{16}$	$7^{13}/_{16}$, $7^{7}/_{8}$, 8	**SDAF 22544**	22244 CCK/W33	SNW 44	SDAF 544	SR 44-38	LER 236	EPR 24	TER 236	795

*Available in steel only





Taconite seal option

Spherical roller / adapter mount

SDAF 22500
Two-piece heavy duty cast-iron housing
Self-aligning / 22200 K series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

How to order	**SDAF 22520**
Option	Specify
One end closed	SDAF 22520Y
Taconite seals	SDAF 22520T
Cast-steel	SDAFS 22520
Optional shaft size	SDAF 22520 x $3\frac{1}{2}$

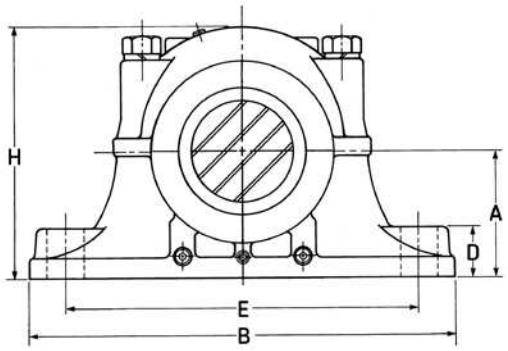
Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 162; for other seal speed limits see pages 351-352.

Designations Complete pillow block									**Static oil level**			**Bolts**		
	A	B	C	D	E Max	E Min	F	H	K	L	X	(No. req'd)	R	T
	in													
SDAF 22520	$4\frac{1}{2}$	$15\frac{1}{4}$	6	$1\frac{7}{8}$	$13\frac{1}{8}$	$11\frac{5}{8}$	$3\frac{3}{8}$	$8\frac{15}{16}$	$1\frac{21}{32}$	$6\frac{3}{4}$	$\frac{3}{16}$	(4)-$\frac{3}{4}$	$1\frac{59}{64}$	$4\frac{3}{4}$
SDAFS 22522	$4\frac{15}{16}$	$16\frac{1}{2}$	$6\frac{3}{4}$	$2\frac{1}{8}$	$14\frac{1}{2}$	$12\frac{5}{8}$	4	$9\frac{7}{8}$	$1\frac{13}{16}$	$7\frac{1}{4}$	$\frac{3}{16}$	(4)-$\frac{7}{8}$	$2\frac{1}{8}$	$4\frac{7}{8}$
SDAF 22524	$5\frac{1}{4}$	$16\frac{1}{2}$	$6\frac{7}{8}$	$2\frac{1}{4}$	$14\frac{1}{2}$	$13\frac{1}{4}$	$4\frac{1}{8}$	$10\frac{1}{2}$	$1\frac{27}{32}$	$7\frac{3}{8}$	$\frac{3}{16}$	(4)-$\frac{7}{8}$	$2\frac{9}{32}$	$4\frac{15}{16}$
SDAF 22526	6	$18\frac{3}{8}$	$7\frac{1}{2}$	$2\frac{3}{8}$	16	$14\frac{5}{8}$	$4\frac{1}{2}$	$11\frac{7}{8}$	$2\frac{11}{32}$	8	$\frac{3}{16}$	(4)-1	$2\frac{15}{32}$	$5\frac{1}{4}$
SDAFS 22528	6	$20\frac{1}{8}$	$7\frac{1}{2}$	$2\frac{3}{8}$	$17\frac{1}{8}$	16	$4\frac{1}{2}$	$12\frac{1}{16}$	$2\frac{1}{8}$	$7\frac{13}{16}$	$\frac{3}{16}$	(4)-$1\frac{1}{8}$	–	–
SDAF 22530	$6\frac{5}{16}$	$21\frac{1}{4}$	$7\frac{7}{8}$	$2\frac{1}{2}$	$18\frac{1}{4}$	17	$4\frac{3}{4}$	$12\frac{9}{16}$	$2\frac{1}{32}$	$8\frac{3}{8}$	$\frac{3}{16}$	(4)-$1\frac{1}{8}$	$2\frac{49}{64}$	$5\frac{7}{16}$
SDAF 22532	$6\frac{11}{16}$	22	$8\frac{1}{4}$	$2\frac{1}{2}$	$19\frac{1}{4}$	$17\frac{3}{8}$	5	$13\frac{7}{16}$	$2\frac{3}{32}$	$8\frac{3}{4}$	$\frac{3}{16}$	(4)-$1\frac{1}{8}$	$2\frac{31}{32}$	$5\frac{5}{8}$
SDAF 22536	$7\frac{1}{2}$	$26\frac{3}{4}$	$9\frac{3}{8}$	$2\frac{3}{4}$	$23\frac{5}{8}$	$20\frac{7}{8}$	$5\frac{7}{8}$	$15\frac{3}{16}$	$2\frac{3}{8}$	10	$\frac{3}{16}$	(4)-$1\frac{1}{4}$	$3\frac{9}{64}$	$6\frac{1}{8}$
SDAF 22538	$7\frac{7}{8}$	$27\frac{5}{8}$	10	3	$23\frac{1}{2}$	$21\frac{1}{2}$	$6\frac{1}{4}$	16	$2\frac{7}{16}$	$10\frac{5}{8}$	$\frac{3}{16}$	(4)-$1\frac{3}{8}$	$3\frac{19}{64}$	$6\frac{1}{2}$
SDAF 22540	$8\frac{1}{4}$	$28\frac{3}{4}$	$10\frac{1}{2}$	$3\frac{1}{4}$	25	23	$6\frac{3}{4}$	$16\frac{7}{8}$	$2\frac{1}{2}$	$11\frac{1}{8}$	$\frac{3}{16}$	(4)-$1\frac{3}{8}$	$3\frac{1}{2}$	$6\frac{7}{8}$
SDAF 22544	$9\frac{1}{2}$	32	$11\frac{1}{4}$	$3\frac{1}{2}$	$27\frac{7}{8}$	$25\frac{5}{8}$	$7\frac{1}{4}$	19	$3\frac{1}{8}$	$11\frac{7}{8}$	$\frac{3}{16}$	(4)-$1\frac{1}{2}$	$3\frac{5}{8}$	$7\frac{1}{8}$

Spherical roller / adapter mount

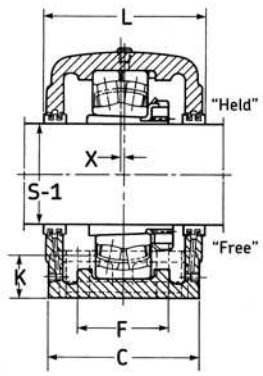
SDAF 22600
Two-piece heavy duty cast-iron housing
Self-aligning / 22300 K series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

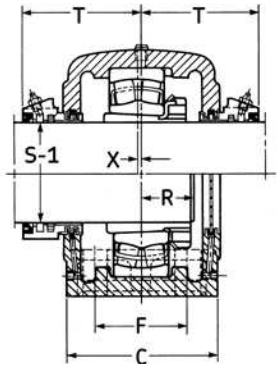
How to order	SDAF 22617
Option	Specify
One end closed	SDAF 22617Y
Taconite seals	SDAF 22617T
Cast-steel	SDAFS 22617
Optional shaft size	SDAF 22617 x 3



Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 351-352.

Shaft dia.		Designations								Mass
S-1 Standard	Optional	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (1 req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$2^{15}/_{16}$	$2^{13}/_{16}$, $2^{7}/_{8}$, 3	**SDAF 22617**	22317 EK	SNW 117	SDAF 617	SR 20-17	LER 59	EPR 10	TER 59	84
$3^{7}/_{16}$	$3^{5}/_{16}$, $3^{3}/_{8}$, $3^{1}/_{2}$	**SDAF 22620**	22320 EK	SNW 120	SDAF 620	SR 24-20	LER 75	EPR 11	TER 75	164
$3^{15}/_{16}$	$3^{13}/_{16}$, $3^{7}/_{8}$, 4	**SDAF 22622**	22322 EK	SNW 122	SDAF 622	SR 0-22	LER 93	EPR 13	TER 93	178
$4^{3}/_{16}$	$4^{1}/_{16}$, $4^{1}/_{8}$, $4^{1}/_{4}$	**SDAF 22624**	22324 CCK/W33	SNW 124	SDAF 624	SR 0-24	LOR 113	EPR 14	TER 113	272
$4^{7}/_{16}$	$4^{5}/_{16}$, $4^{3}/_{8}$, $4^{1}/_{2}$	**SDAF 22626**	22326 CCK/W33	SNW 126	SDAF 626	SR 0-26	LOR 117	EPR 15	TER 117	340
$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SDAF 22632**	22332 CCK/W33	SNW 132	SDAF 632	SR 38-32	LER 211	EPR 17	TER 211	455
$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SDAF 22634**	22334 CCK/W33	SNW 134	SDAF 634	SR 40-34	LER 215	EPR 19	TER 215	530
$6^{7}/_{16}$	$6^{5}/_{16}$, $6^{3}/_{8}$, $6^{1}/_{2}$	**SDAF 22636**	22336 CCK/W33	SNW 136	SDAF 636	SR 0-36	LER 220	EPR 26	TER 220	630
$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SDAF 22638**	22338 CCK/W33	SNW 138	SDAF 638	SR 44-38	LER 224	EPR 21	TER 224	792





Taconite seal option

Spherical roller / adapter mount

SDAF 22600
Two-piece heavy duty cast-iron housing
Self-aligning / 22300 K series bearing
Held or free bearing
Oil or grease lubrication
LOR / LER triple ring seals
Four-bolt base

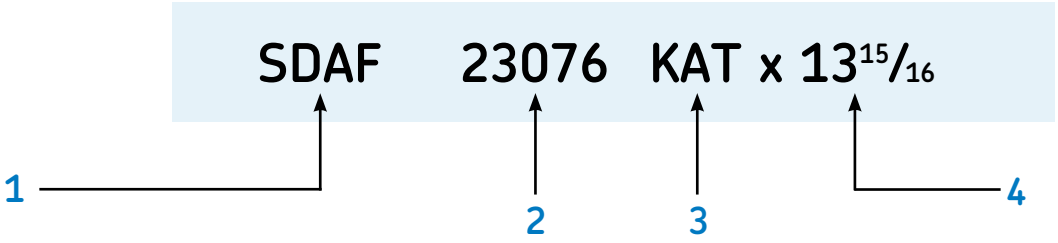
How to order	**SDAF 22617**
Option	Specify
One end closed	SDAF 22617Y
Taconite seals	SDAF 22617T
Cast-steel	SDAFS 22617
Optional shaft size	SDAF 22617 x 3

Held and free: Standard and standard option blocks come with an enclosed stabilizing ring. For a free unit, discard the enclosed stabilizing ring.
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see pages 351-352.

Designations Complete pillow block	A	B	C	D	E Max	E Min	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in													
SDAF 22617	4 1/2	15 1/4	6	1 7/8	13 1/8	11 5/8	3 3/8	8 15/16	1 25/32	6 3/4	3/16	(4)-3/4	2 1/16	4 11/16
SDAF 22620	5 1/4	16 1/2	6 7/8	2 1/4	14 1/2	13 1/4	4 1/8	10 1/2	2 1/32	7 3/8	3/16	(4)-7/8	2 7/16	5 1/16
SDAF 22622	6	18 3/8	7 1/2	2 3/8	16	14 5/8	4 1/2	11 7/8	2 13/32	8	3/16	(4)-1	2 5/8	5 1/4
SDAF 22624	6 5/16	21 1/4	7 7/8	2 1/2	18 1/4	17	4 3/4	12 9/16	2 13/32	8 3/8	3/16	(4)-1 1/8	2 13/16	5 7/16
SDAF 22626	6 11/16	22	8 1/4	2 1/2	19 1/4	17 3/8	5	13 7/16	2 15/32	8 3/4	3/16	(4)-1 1/8	3	5 5/8
SDAF 22632	7 7/8	27 5/8	10	3	23 1/2	21 1/2	6 1/4	16	2 23/32	10 5/8	3/16	(4)-1 3/8	3 5/8	6 1/2
SDAF 22634	8 1/4	28 3/4	10 1/2	3 1/4	25	23	6 3/4	16 7/8	2 3/4	11 1/8	3/16	(4)-1 3/8	3 3/4	6 3/4
SDAF 22636	8 7/8	30 1/2	10 3/4	3 1/4	26 3/8	24 1/8	6 7/8	17 15/16	3 1/16	11 3/8	3/16	(4)-1 1/2	3 15/16	6 7/8
SDAF 22638	9 1/2	32	11 1/4	3 1/2	27 7/8	25 5/8	7 1/4	19	3 13/32	11 7/8	3/16	(4)-1 1/2	4 1/16	7 1/8

Nomenclature / SDAF extended range

Standards



1. Housing style:

S	Standard pillow block
D	Heavy duty series
A	Inch dimensions
F	Triple ring seal

2. Designation:

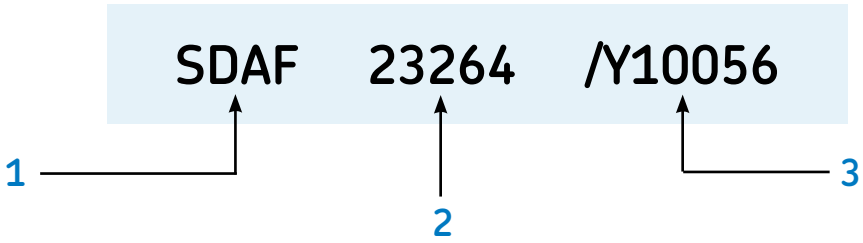
Complete assembly (cast-iron)	Housing only	Basic bearing series	Mounting method
230(00)	30(00)	230(00) CC/W33	Cylindrical
231(00)	31(00)	231(00) CC/W33	Cylindrical
232(00)	32(00)	232(00) CC/W33	Cylindrical
230(00)KA	30(00)KA	230(00) CCK/W33	Adapter
231(00)KA	31(00)KA	231(00) CCK/W33	Adapter
232(00)KA	32(00)KA	232(00) CCK/W33	Adapter

3. Suffix:

T	Taconite contact seal
–	Standard triple ring seal

4. Shaft size:

Adapter mounted



1. Prefix:

SDAF	Gray iron
SDAFD	Ductile iron
SDAFS	Cast steel
SSDAF	Solid foot, no cast slots, iron
SSDAFD	Solid foot, no cast slots, ductile
SSDAFS	Solid foot, no cast slots, steel

2. Designation:

23264	Complete kit including bearing and locking device
3264	Housing only, no bearing or locking device

3. Suffix:

/Y10056	Float, both ends open
H /Y10056	Fixed, both ends open, includes ring seals and (1) stabilizing ring
HH /Y10056	Fixed, both ends open, includes ring seals and (2) stabilizing rings
Y /Y10056	Float, one end closed, includes ring seals and end plug
HY /Y10056	Fixed, one end closed, includes (1) stabilizing ring and end plug
HHY /Y10056	Fixed, one end closed, includes (2) stabilizing rings and end plug

Introduction / SDAF extended range

Introduction

SKF is the leading supplier of split pillow blocks in the US and has established many of the designs that are regarded as the industry standards today. This position is due, in part, to the fact that SKF is a full range supplier of split pillow block housings and the associated bearings and mounting accessories for shafts ranging from 1-7/16" to over 20" in diameter. The largest size split pillow blocks, for 9" to 20" shafts, are referred to as the extended range series and are supplied as made-to-order, customized solutions for the largest and most demanding split pillow block applications.

The extended range series of pillow blocks are a rugged housing style of exceptionally sturdy 4-bolt construction. The standard material is class 40 gray iron but when extra high strength or impact resistance is necessary, housings can be supplied in high strength ductile irons or cast steel as specified below. Extended range housings are machined according to the requirements of the individual application and are, therefore, highly customized bearing solutions. These customized housings are each given their own specific part number and drawing so that there is a permanent record for each housing.

When no special features are required, housings are designated according to the part numbers in the following tables. However, since extended range housings are not stocked in a final machined state, it is recommended that each application for extended range housings be reviewed with SKF Applications Engineering to determine what features may be needed since many special features can often be accommodated with little or no additional cost.

Mounting

Because of their size, extended range housings often require special considerations when mounting and dismounting. For bearings mounted directly on the shaft, it is recommended that hydraulic assist features be included in the shaft design. These will aid in mounting and dismounting the bearing. For bearings mounted on adapter sleeves, sleeves can be supplied modified with hydraulic assist features which, once again, aid in both mounting and dismounting. SKF Applications Engineering can provide the appropriate recommendations and drawings for hydraulic assist as well as instructions for extended range housing assembly.

Housing material

- Standard material is ASTM A48B class 40 gray iron
- Alternate high strength or impact resistant material available
  - Ductile-Iron: ASTM A536 Grade 65-45-12
  - Ductile-Iron: ASTM A536 Grade 80-55-06
  - Cast-Steel: ASTM A27 Grade U-60-30

Lubrication

- Housing design will provide effective bearing lubrication with choice of conventional greasing methods, static oil or pressurized circulating oil system
- Readily adaptable for use with custom lubrication systems and auxiliary monitoring devices

Sealing options

- Triple ring seals of steel material for high wear resistance and strength in severe environments
- Special labyrinth ring seals with O-ring bore inserts for enhanced lubricant retention in oil applications
- Two-piece, bolt-on Taconite seal or TER cartridge type Taconite seals
- One end closed enclosures to provide superior sealing ability with ease of assembly and maintenance

Custom considerations

Because of the highly specialized nature of the extended range applications, SKF Mounted Products Design and Applications Engineering work together to specify and design each pillow block. This flexible approach to supplying extended range pillow blocks provides the user with a host of optional features that tailor to the specific application. These features can include, but are not limited to: drilled base bolt holes, milled foot pads, special machinings for lubrication and condition monitoring systems, special bore tolerances, machined foot ends, special seals, machinings for user supplied auxiliary seals, hydraulic assisted adapter sleeves, etc. The extended range series pillow blocks are individually engineered to provide a safe, reliable, cost effective bearing solution for the application. Consult SKF Applications Engineering for your particular needs.

Availability

SKF extended range housings are made-to-order to accommodate any special features that may be required. So that orders can be filled quickly, SKF stocks unmachined castings for the most popular sizes, and can turn around most finished products with reduced lead times.

Application information / SDAF extended range

Send this form plus any design details or drawings information you wish to include to your local SKF sales representative.

Application: (Please note type of equipment where pillow blocks are to be used.)

_____

_____

Purpose: (Is this installation part of a new design or a replacement? If the latter, please indicate what unit is presently used.)

_____

_____

Why is the present unit being replaced? (Please explain.)

Present unit is defective:_____

Equipment is being modified or upgraded: _____

What type of load is the pillow block intended to carry?

☐ Radial ☐ Steady ☐ Mild shock ☐ Axial ☐ Alternating ☐ Heavy shock

Direction_____Speed_____rpm Temperature_____° F Required Life_____hours (L_{10})

Type of lubrication available: ☐ Grease ☐ Oil ☐ Oil Mist ☐ Static ☐ Circulating

Conditions under which pillow block will be used: ☐ Wet ☐ Dry ☐ Exposed ☐ Covered

Type of drive mechanism to be used:_____

Shaft diameter range (specify): _____

Will unit use a cylindrical or adapter mounted (tapered) bore? _____

What special requirements will be needed?

Center height:_____

Bolt configuration and spacing: _____

Sealing material:_____

Other:_____

Name:_____ Title:_____

Company:_____

Address:_____

City:_____ State:_____ Zip:_____ Phone: (___) _____

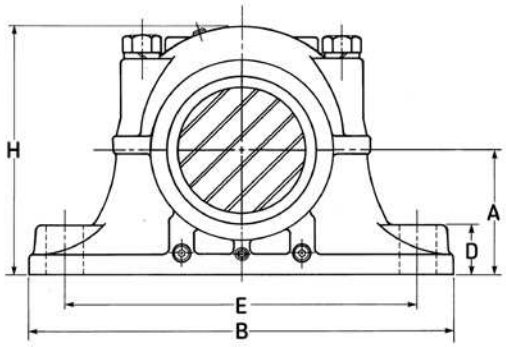
Email:_____ Cell Phone: (___) _____

Extended range / cylindrical mount

SDAF 23000
Two-piece heavy duty cast-iron housing
Self-aligning / 23000 series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

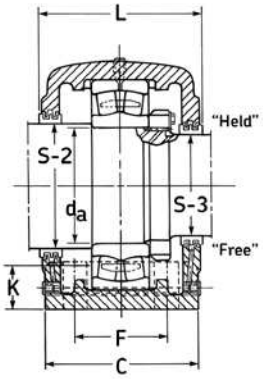
These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

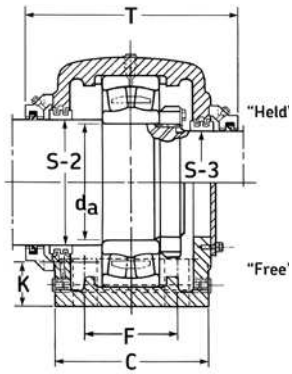


For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see page 353.

Shaft dia.			Designations								Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-plate	Pillow block housing	Stab. ring (No. req'd)	Triple ring seal S-2 shaft (1 req'd)	Triple ring seal S-3 shaft (1 req'd)	
mm	in										lbs
300	13	11 1/2	**SDAF 23060**	23060 CAC/W33	N 060	PL 60	SDAF 3060	(1)-A 8967	ERF 824	ERF 832	1 200
320	13 3/4	12 1/4	**SDAF 23064**	23064 CC/W33	N 064	PL 64	SDAF 3064	(1)-A 8968	ERF 943	ERF 804	1 300
340	15	13	**SDAF 23068**	23068 CAC/W33	N 068	PL 68	SDAF 3068	(1)-A 8969	ERF 806	ERF 824	1 550
360	15 3/4	13 3/4	**SDAF 23072**	23072 CAC/W33	N 072	PL 72	SDAF 3072	(1)-A 8970	ERF 969	ERF 874	1 650
380	16 3/4	14 1/2	**SDAF 23076**	23076 CAC/W33	N 076	PL 76	SDAF 3076	(1)-A 8971	ERF 822	ERF 950	1 700
400	17 1/2	15 3/8	**SDAF 23080**	23080 CAC/W33	N 080	PL 80	SDAF 3080	(1)-36053-153	ERF 999	ERF 942	2 300
420	18	16	**SDAF 23084**	23084 CA/W33	N 084	PL 84	SDAF 3084	(1)-36053-143	ERF 812	ERF 809	2 300
440	19 1/2	17	**SDAF 23088**	23088 CA/W33	N 088	PL 88	SDAF 3088	(2)-36053-150	ERF 926	ERF 838	2 550
460	20	17 3/4	**SDAF 23092**	23092 CA/W33	N 092	PL 92	SDAF 3092	(2)-36053-152	ERF 808	ERF 906	2 850
480	21	18 1/2	**SDAF 23096**	23096 CA/W33	N 096	PL 96	SDAF 3096	(2)-36053-200	ERF 933	ERF 978	4 250
500	21	19	**SDAF 230/500**	230/500 CA/W33	N 500	PL 500	SDAF 30/500	(2)-36053-165	ERF 933	ERF 922	4 350
530	22 1/2	20 3/8	**SDAF 230/530**	230/530 CA/W33	N 530	PL 530	SDAF 30/530	(2)-36053-166	ERF 997	ERF 998	5 200

Note: All SDAF extended range series are custom manufactured





Taconite seal option

Extended range / cylindrical mount

SDAF 23000
Two-piece heavy duty cast-iron housing
Self-aligning / 23000 series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see page 353.

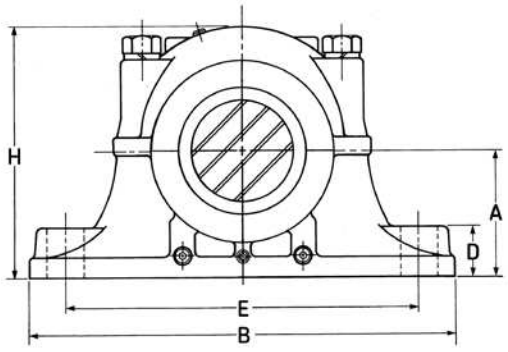
Designations Complete pillow block	A	B	C	D	E Max	E Min	E Drilled holes	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in														
SDAF 23060	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4 3/8	15 1/2	3/16	(4)-1 5/8	4 11/32	18 3/8
SDAF 23064	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4	15 1/2	3/16	(4)-1 5/8	4 1/2	19 3/8
SDAF 23068	12	39	15 1/4	4 3/16	33 1/2	32	32 3/4	10	24	3 3/8	15 3/4	3/16	(4)-1 7/8	4 7/8	19 5/8
SDAF 23072	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	3 23/32	16 3/4	3/16	(4)-1 7/8	4 7/8	20
SDAF 23076	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	3 3/8	16 3/4	3/16	(4)-1 7/8	5 1/8	20
SDAF 23080	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	28 7/8	4 7/16	17 5/8	3/16	(4)-2	5 17/32	22 3/4
SDAF 23084	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	29	4 1/16	17 5/8	3/16	(4)-2	5 9/16	22 3/4
SDAF 23088	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4 1/2	19 1/4	0	(4)-2 1/4	5 3/4	24
SDAF 23092	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4	19 1/4	0	(4)-2 1/4	5 7/8	24
SDAF 23096	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 1/8	21 3/4	0	(4)-2 1/4	5 29/32	26 1/2
SDAF 230/500	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	4 3/4	21 3/4	0	(4)-2 1/4	6 1/2	26 1/2
SDAF 230/530	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	4 13/16	22 1/4	0	(4)-2 1/2	6 27/32	27

Extended range / adapter mount

SDAF 23000 KA
Two-piece heavy duty cast-iron housing
Self-aligning / 23000 K series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.



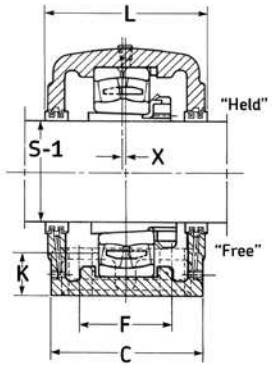
For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see page 353.

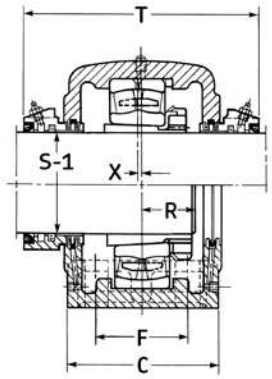
Shaft dia.		Designations								Mass
S-1 Standard	Optional [1]	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (No. req'd)	Triple ring seal (2 req'd)	End plug	Taconite seal	
in										lbs
$10^{15}/_{16}$	11	**SDAF 23060 KA x $10^{15}/_{16}$**	23060 CACK/W33	SNP 3060 x $10^{15}/_{16}$	SDAF 3060 KA x $10^{15}/_{16}$	(1)-A 8967	ERF 858	X-5217-9	TER 858	1 200
$11^{7}/_{16}$	$11^{1}/_{2}$	**SDAF 23064 KA x $11^{7}/_{16}$**	23064 CCK/W33	SNP 3064 x $11^{7}/_{16}$	SDAF 3064 KA x $11^{7}/_{16}$	(1)-A 8968	ERF 861	X-5217-16	TER 861	1 300
$11^{15}/_{16}$	12	**SDAF 23064 KA x $11^{15}/_{16}$**	23064 CCK/W33	SNP 3064 x $11^{15}/_{16}$	SDAF 3064 KA x $11^{15}/_{16}$	(1)-A 8968	ERF 859	X-5217-3	TER 859	1 250
$12^{7}/_{16}$	$12^{1}/_{2}$	**SDAF 23068 KA x $12^{7}/_{16}$**	23068 CACK/W33	SNP 3068 x $12^{7}/_{16}$	SDAF 3068 KA x $12^{7}/_{16}$	(1)-A 8969	ERF 865	X-5217-29	TER 865	1 550
$12^{15}/_{16}$	13	**SDAF 23072 KA x $12^{15}/_{16}$**	23072 CACK/W33	SNP 3072 x $12^{15}/_{16}$	SDAF 3072 KA x $12^{15}/_{16}$	(1)-A 8970	ERF 869	X-5217-28	TER 869	1 650
$13^{7}/_{16}$	$13^{1}/_{2}$	**SDAF 23072 KA x $13^{7}/_{16}$**	23072 CACK/W33	SNP 3072 x $13^{7}/_{16}$	SDAF 3072 KA x $13^{7}/_{16}$	(1)-A 8970	ERF 872	X-5217-27	TER 872	1 600
$13^{15}/_{16}$	14	**SDAF 23076 KA x $13^{15}/_{16}$**	23076 CAK/W33	SNP 3076 x $13^{15}/_{16}$	SDAF 3076 KA x $13^{15}/_{16}$	(1)-A 8971	ERF 875	X-5217-12	TER 875	1 700
15	$14^{15}/_{16}$	**SDAF 23080 KA x 15**	23080 CACK/W33	SNP 3080 x 15	SDAF 3080 KA x 15	(1)-36053-153	ERF 847	X-5217-21	TER 847	2 300
$15^{3}/_{4}$	*	**SDAF 23084 KA x $15^{3}/_{4}$**	23084 CAK/W33	SNP 3084 x $15^{3}/_{4}$	SDAF 3084 KA x $15^{3}/_{4}$	(1)-36053-143	ERF 969	X-5217-23	TER 969	2 300
$16^{1}/_{2}$	*	**SDAF 23088 KA x $16^{1}/_{2}$**	23088 CAK/W33	SNP 3088 x $16^{1}/_{2}$	SDAF 3088 KA x $16^{1}/_{2}$	(2)-36053-150	ERF 958	**	**	2 550
17	*	**SDAF 23092 KA x 17**	23092 CAK/W33	SNP 3092 x 17	SDAF 3092 KA x 17	(2)-36053-152	ERF 838	**	**	2 850
18	*	**SDAF 23096 KA x 18**	23096 CAK/W33	SNP 3096 x 18	SDAF 3096 KA x 18	(2)-36053-200	ERF 888	**	**	4 250
$18^{1}/_{2}$	*	**SDAF 230/500 KA x $18^{1}/_{2}$**	230/500 CAK/W33	SNP 30/500 x $18^{1}/_{2}$	SDAF 30/500 KA x $18^{1}/_{2}$	(2)-36053-165	ERF 978	**	**	4 350
$19^{1}/_{2}$	*	**SDAF 230/530 KA x $19^{1}/_{2}$**	230/530 CAK/W33	SNP 30/530 x $19^{1}/_{2}$	SDAF 30/530 KA x $19^{1}/_{2}$	(2)-36053-166	ERF 926	**	**	5 200

*SKF will evaluate optional shaft diameters upon request.
**In these sizes, housing and seals are a matched pair and cannot be ordered separately.
1) Requires different adapter sleeve and seals.

Optional internal radial clearances (e.g. C3) are available upon request.

Note: All SDAF extended range series are custom manufactured





Taconite seal option

Extended range / adapter mount

SDAF 23000KA
Two-piece heavy duty cast-iron housing
Self-aligning / 23000 K series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

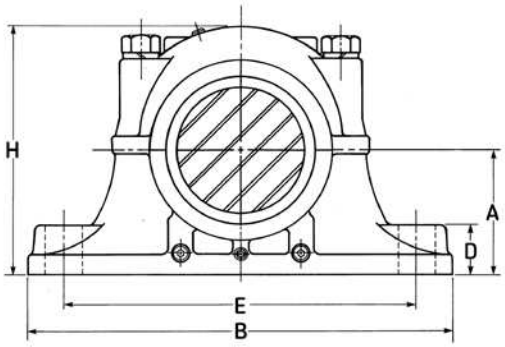
These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

For shaft diameter tolerances see page 359; for bearing information see page 164; for other seal speed limits see page 353.

Designations Complete pillow block	A	B	C	D	E Max	E Min	E Drilled holes	F	H	**Static oil level** K	L	X	**Bolts** (No. req'd)	R	T
	in														
SDAF 23060 KA x 10 15/16	12	38 1/4	14 3/4	3 3/8	33 1/2	32 3/4	33 1/8	9	23 7/16	4 3/8	15 1/2	3/16	(4)-1 5/8	4 11/32	18 3/8
SDAF 23064 KA x 11 7/16	12	38 1/4	14 3/4	3 3/8	33 1/2	32 3/4	33 1/8	9	23 7/16	4	15 1/2	3/16	(4)-1 5/8	4 1/2	19 3/8
SDAF 23064 KA x 11 15/16	12	38 1/4	14 3/4	3 3/8	33 1/2	32 3/4	33 1/8	9	23 7/16	4	15 1/2	3/16	(4)-1 5/8	4 1/2	19 3/8
SDAF 23068 KA x 12 7/16	11 13/16	39	15 1/4	4 3/16	33 1/2	32	32 3/4	10	24	3 3/8	15 3/4	3/16	(4)-1 7/8	4 7/8	19 5/8
SDAF 23072 KA x 12 15/16	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	3 23/32	16 3/4	3/16	(4)-1 7/8	4 7/8	20
SDAF 23072 KA x 13 7/16	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	3 23/32	16 3/4	3/16	(4)-1 7/8	4 7/8	20
SDAF 23076 KA x 13 15/16	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	3 3/8	16 3/4	3/16	(4)-1 7/8	5 1/8	20
SDAF 23080 KA x 15	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	29	4 7/16	17 5/8	3/16	(4)-2	5 17/32	22 3/4
SDAF 23084 KA x 15 3/4	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	29	4 1/16	17 5/8	3/16	(4)-2	5 9/16	22 3/4
SDAF 23088 KA x 16 1/2	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4 1/2	19 1/4	3/16	(4)-2 1/4	5 3/4	24
SDAF 23092 KA x 17	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4	19 1/4	3/16	(4)-2 1/4	5 7/8	24
SDAF 23096 KA x 18	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 1/8	21 3/4	3/16	(4)-2 1/4	5 29/32	26 1/2
SDAF 230/500 KA x 18 1/2	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	4 3/4	21 3/4	3/16	(4)-2 1/4	6 1/2	26 1/2
SDAF 230/530 KA x 19 1/2	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	4 13/16	22 1/4	3/16	(4)-2 1/2	6 27/32	27

Extended range / cylindrical mount

SDAF 23100
Two-piece heavy duty cast-iron housing
Self-aligning / 23100 series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured



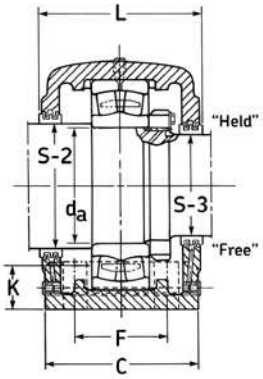
How to order

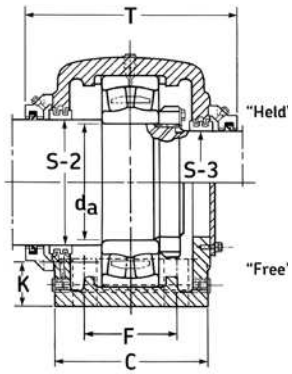
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For shaft diameter tolerances see page 359; for bearing information see page 166; for other seal speed limits see page 353.

Shaft dia.			Designations								Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-plate	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal S-2 shaft (1 req'd)	S-3 shaft (1 req'd)	
mm	in										lbs
260	11 1/2	9 15/16	**SDAF 23152**	23152 CAC/W33	N 052	PL 52	SDAF 3152	36053-114	ERF 832	ERF 845	1 050
280	12 1/2	10 3/4	**SDAF 23156**	23156 CAC/W33	N 056	PL 56	SDAF 3156	A 8967	ERF 866	ERF 826	1 250
300	13	11 1/2	**SDAF 23160**	23160 CAC/W33	N 060	PL 60	SDAF 3160	36053-157	ERF 846	ERF 856	1 350
320	14	12 1/4	**SDAF 23164**	23164 CAC/W33	N 064	PL 64	SDAF 3164	A 8970	ERF 876	ERF 983	1 850
340	15	13	**SDAF 23168**	23168 CAC/W33	N 068	PL 68	SDAF 3168	36053-137	ERF 847	ERF 846	2 450
360	16	13 3/4	**SDAF 23172**	23172 CAC/W33	N 072	PL 72	SDAF 3172	36053-167	ERF 809	ERF 874	2 500
380	17	14 1/2	**SDAF 23176**	23176 CA/W33	N 076	PL 76	SDAF 3176	36053-143	ERF 811	ERF 950	2 500
400	17 1/2	15 1/4	**SDAF 23180**	23180 CA/W33	N 080	PL 80	SDAF 3180	36053-150	ERF 967	ERF 895	2 800
420	18 1/2	15 3/4	**SDAF 23184**	23184 CA/W33	N 084	PL 84	SDAF 3184	36053-160	ERF 978	ERF 907	4 300
440	19 1/2	17	**SDAF 23188**	23188 CA/W33	N 088	PL 88	SDAF 3188	36053-165	ERF 926	ERF 838	4 300
460	20	17 3/4	**SDAF 23192**	23192 CA/W33	N 092	PL 92	SDAF 3192	36053-154	ERF 808	ERF 906	5 000
480	21	18 1/2	**SDAF 23196**	23196 CA/W33	N 096	PL 96	SDAF 3196	36053-159	ERF 933	ERF 978	5 300

Note: All SDAF extended range series are custom manufactured





Taconite seal option

Extended range / cylindrical mount

SDAF 23100
Two-piece heavy duty cast-iron housing
Self-aligning / 23100 series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

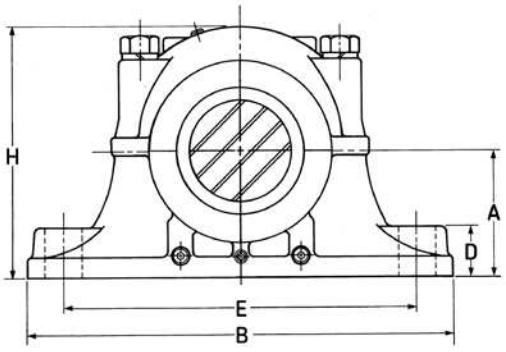
These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

For shaft diameter tolerances see page 359; for bearing information see page 166; for other seal speed limits see page 353.

Designations Complete pillow block	A	B	C	D	E Max	E Min	E Drilled holes	F	H	**Static oil level** K	L	**Bolts** (No. req'd)	R	T
	in													
SDAF 23152	10 1/4	35	13 1/8	3 3/4	30 1/2	29	29 3/4	8 3/4	20 7/8	3 1/8	13 3/4	(4)-1 5/8	4 5/8	17 1/2
SDAF 23156	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4 1/2	15 1/2	(4)-1 5/8	4 25/32	19
SDAF 23160	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	3 7/8	15 1/2	(4)-1 5/8	5 1/8	19
SDAF 23164	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	4 1/16	16 3/4	(4)-1 7/8	5 17/32	20 3/4
SDAF 23168	14	43 3/4	17 3/4	5	38 1/4	36 3/4	37 1/2	10 3/4	27 7/8	4 5/8	18 3/4	(4)-2	5 29/32	22 1/2
SDAF 23172	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	28 7/8	4 5/8	17 5/8	(4)-2	5 31/32	21 3/4
SDAF 23176	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	28 7/8	4 9/32	17 5/8	(4)-2	6 1/8	21 3/4
SDAF 23180	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4 13/16	19 1/4	(4)-2 1/4	6 13/32	24
SDAF 23184	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 19/32	21 3/4	(4)-2 1/4	6 7/8	26 1/2
SDAF 23188	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 5/16	21 3/4	(4)-2 1/4	7 7/32	26 1/2
SDAF 23192	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 7/16	22 1/4	(4)-2 1/2	7 1/2	27
SDAF 23196	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 3/16	22 1/4	(4)-2 1/2	7 21/32	27

Extended range / adapter mount

SDAF 23100 KA
Two-piece heavy duty cast-iron housing
Self-aligning / 23100 K series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured



How to order

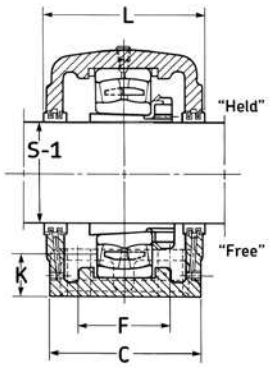
These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

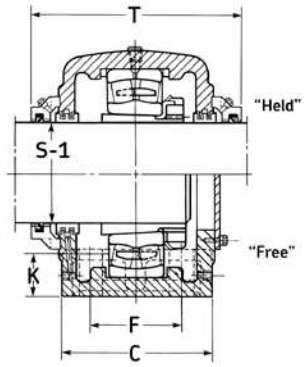
For shaft diameter tolerances see page 359; for bearing information see page 166; for other seal speed limits see page 353.

Shaft dia.		Designations						Mass
S-1 Standard	Optional	Complete pillow block	Bearing	Adapter assembly	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal (2 req'd)	
in								lbs
9 7/16	9 1/2	**SDAF 23152 KA x 9 7/16**	23152 CACK/W33	SNP 3152 x 9 7/16	SDAF 3152 KA x 9 7/16	36053-114	ERF 891	1 050
10 7/16	10 1/2	**SDAF 23156 KA x 10 7/16**	23156 CACK/W33	SNP 3156 x 10 7/16	SDAF 3156 KA x 10 7/16	A 8967	ERF 973	1 250
10 15/16	11	**SDAF 23160 KA x 10 15/16**	23160 CACK/W33	SNP 3160 x 10 15/16	SDAF 3160 KA x 10 15/16	36053-157	ERF 858	1 350
11 15/16	12	**SDAF 23164 KA x 11 15/16**	23164 CACK/W33	SNP 3164 x 11 15/16	SDAF 3164 KA x 11 15/16	A 8970	ERF 900	1 850
12 7/16	12 1/2	**SDAF 23168 KA x 12 7/16**	23168 CACK/W33	SNP 3168 x 12 7/16	SDAF 3168 KA x 12 7/16	36053-137	ERF 975	2 450
13 7/16	13 1/2	**SDAF 23172 KA x 13 7/16**	23172 CACK/W33	SNP 3172 x 13 7/16	SDAF 3172 KA x 13 7/16	36053-167	ERF 872	2 500
13 15/16	14	**SDAF 23176 KA x 13 15/16**	23176 CAK/W33	SNP 3176 x 13 15/16	SDAF 3176 KA x 13 15/16	36053-143	ERF 875	2 500
14 15/16	15	**SDAF 23180 KA x 14 15/16**	23180 CAK/W33	SNP 3180 x 14 15/16	SDAF 3180 KA x 14 15/16	36053-150	ERF 882	2 800
15 3/4	*	**SDAF 23184 KA x 15 3/4**	23184 CAK/W33	SNP 3184 x 15 3/4	SDAF 3184 KA x 15 3/4	36053-160	ERF 907	4 300
16 1/2	*	**SDAF 23188 KA x 16 1/2**	23188 CAK/W33	SNP 3188 x 16 1/2	SDAF 3188 KA x 16 1/2	36053-165	ERF 958	4 300
17	*	**SDAF 23192 KA x 17**	23192 CAK/W33	SNP 3192 x 17	SDAF 3192 KA x 17	36053-154	ERF 838	5 000
18	*	**SDAF 23196 KA x 18**	23196 CAK/W33	SNP 3196 x 18	SDAF 3196 KA x 18	36053-159	ERF 888	5 300

*SKF will evaluate optional shaft diameters upon request

Note: All SDAF extended range series are custom manufactured





Taconite seal option

Extended range / adapter mount

SDAF 23100 KA
Two-piece heavy duty cast-iron housing
Self-aligning / 23100 K series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

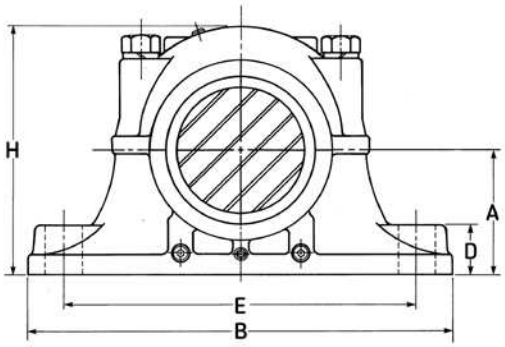
These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

For shaft diameter tolerances see page 359; for bearing information see page 166; for other seal speed limits see page 353.

Designations Complete pillow block	A	B	C	D	E Max	E Min	E Drilled holes	F	H	**Static oil level** K	L	**Bolts** (No. req'd)	R	T
	in													
SDAF 23152 KA x 9 7/16	10 1/4	35	13 1/8	3/4	30 1/2	29	29 3/4	8 3/4	20 7/8	3 1/8	13 3/4	(4)-1 5/8	4 5/8	17 1/2
SDAF 23156 KA x 10 7/16	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4 1/2	15 1/2	(4)-1 5/8	4 25/32	19
SDAF 23160 KA x 10 15/16	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	3 7/8	15 1/2	(4)-1 5/8	5 1/8	19
SDAF 23164 KA x 11 15/16	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	4 1/16	16 3/4	(4)-1 7/8	5 17/32	20 3/4
SDAF 23168 KA x 12 7/16	14	43 3/4	17 3/4	5	38 1/4	36 3/4	37 1/2	10 3/4	27 7/8	4 5/8	18 3/4	(4)-2	5 29/32	22 1/2
SDAF 23172 KA x 13 7/16	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	28 7/8	4 5/8	17 5/8	(4)-2	5 31/32	21 3/4
SDAF 23176 KA x 13 15/16	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	28 7/8	4 9/32	17 5/8	(4)-2	6 1/8	21 3/4
SDAF 23180 KA x 15	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4 13/16	19 1/4	(4)-2 1/4	6 13/32	24
SDAF 23184 KA x 15 3/4	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 19/32	21 3/4	(4)-2 1/4	6 7/8	26 1/2
SDAF 23188 KA x 16 1/2	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 5/16	21 3/4	(4)-2 1/4	7 7/32	26 1/2
SDAF 23192 KA x 17	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 7/16	22 1/4	(4)-2 1/2	7 1/2	27
SDAF 23196 KA x 18	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 3/16	22 1/4	(4)-2 1/2	7 21/32	27

Extended range / cylindrical mount

SDAF 23200
Two-piece heavy duty cast-iron housing
Self-aligning / 23200 series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured



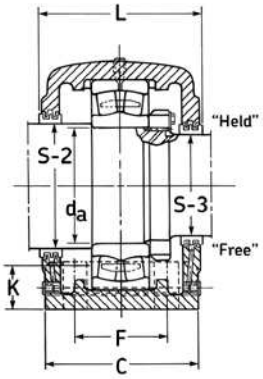
How to order

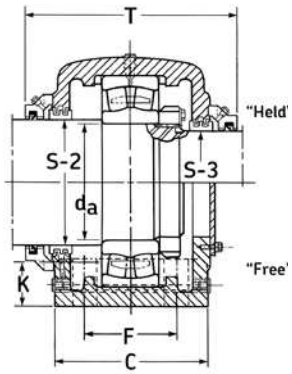
These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see page 353.

Shaft dia.			Designations								Mass
d_a	S-2	S-3	Complete pillow block	Bearing	Lock-nut	Lock-plate	Pillow block housing	Stab. ring (2 req'd)	Triple ring seal S-2 shaft	S-3 shaft (1 req'd)	(1 req'd)
mm	in										lbs
240	10 1/2	9 3/16	**SDAF 23248**	23248 CAC/W33	N 048	PL 48	SDAF 3248	36053-114	ERF 840	ERF 923	1 100
260	11 1/2	9 15/16	**SDAF 23252**	23252 CAC/W33	N 052	PL 52	SDAF 3252	A 8968	ERF 832	ERF 845	1 350
280	12 1/2	10 3/4	**SDAF 23256**	23256 CAC/W33	N 056	PL 56	SDAF 3256	36053-157	ERF 866	ERF 826	1 400
300	13	11 1/2	**SDAF 23260**	23260 CAC/W33	N 060	PL 60	SDAF 3260	36053-130	ERF 846	ERF 856	1 900
320	14	12 1/4	**SDAF 23264**	23264 CAC/W33	N 064	PL 64	SDAF 3264	36053-137	ERF 876	ERF 983	2 500
340	15	13	**SDAF 23268**	23268 CA/W33	N 068	PL 68	SDAF 3268	36053-143	ERF 847	ERF 846	2 650
360	16	13 3/4	**SDAF 23272**	23272 CA/W33	N 072	PL 72	SDAF 3272	36053-150	ERF 965	ERF 981	2 950
380	17	14 1/2	**SDAF 23276**	23276 CA/W33	N 076	PL 76	SDAF 3276	36053-152	ERF 838	ERF 984	3 050
400	17 1/2	15 1/4	**SDAF 23280**	23280 CA/W33	N 080	PL 80	SDAF 3280	36053-165	ERF 967	ERF 895	4 500
420	18 1/2	15 3/4	**SDAF 23284**	23284 CA/W33	N 084	PL 84	SDAF 3284	36053-154	ERF 978	ERF 907	5 000
440	19 1/2	17	**SDAF 23288**	23288 CA/W33	N 088	PL 88	SDAF 3288	36053-159	ERF 926	ERF 838	5 050

Note: All SDAF extended range series are custom manufactured





Taconite seal option

Extended range / cylindrical mount

SDAF 23200
Two-piece heavy duty cast-iron housing
Self-aligning / 23200 series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

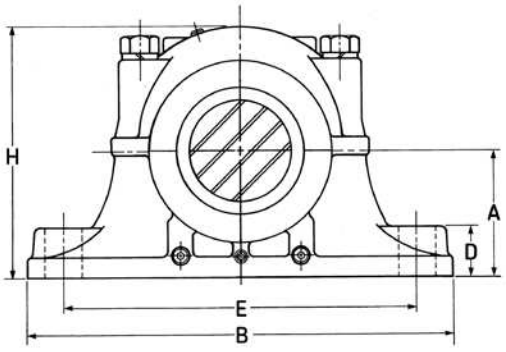
These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see page 353.

Designations Complete pillow block	A	B	C	D	E Max	E Min	E Drilled holes	F	H	**Static oil level** K	L	**Bolts** (No. req'd)	R	T
	in													
SDAF 23248	10 1/4	35	13 1/8	3 3/4	30 1/2	29	29 3/4	8 3/4	20 7/8	3 9/32	13 3/4	(4)-1 5/8	4 7/8	17 1/2
SDAF 23252	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4 3/8	15 1/2	(4)-1 5/8	5 7/32	19
SDAF 23256	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4	15 1/2	(4)-1 5/8	5 11/32	19
SDAF 23260	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	4 3/32	16 3/4	(4)-1 7/8	5 3/4	20 3/4
SDAF 23264	14	43 3/4	17 3/4	5	38 1/4	36 3/4	37 1/2	10 3/4	27 7/8	4 3/4	18 3/4	(4)-2	6 5/32	22 1/2
SDAF 23268	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	28 7/8	4 17/32	17 5/8	(4)-2	6 19/32	21 3/4
SDAF 23272	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	5 1/8	19 1/4	(4)-2 1/4	6 3/4	24
SDAF 23276	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4 9/16	19 1/4	(4)-2 1/4	7 1/32	24
SDAF 23280	17	53	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 5/8	21 3/4	(4)-2 1/4	7 1/2	26 1/2
SDAF 23284	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 25/32	22 1/4	(4)-2 1/2	7 13/16	27
SDAF 23288	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 1/4	22 1/4	(4)-2 1/2	8 9/32	27

Extended range / adapter mount

SDAF 23200 KA
Two-piece heavy duty cast-iron housing
Self-aligning / 23200 K series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured



How to order

These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

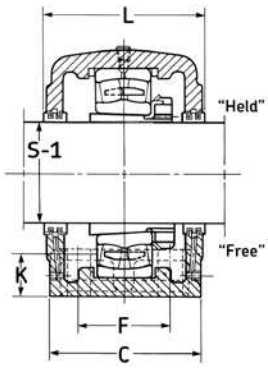
For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see page 353.

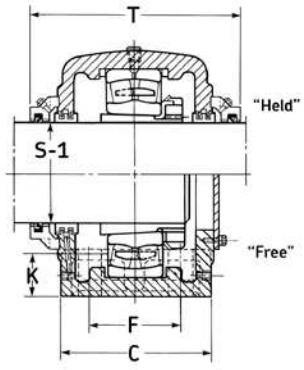
Shaft dia.		Designations						Mass
S-1 Standard	Optional[1]	Complete pillow block	Bearing	Adapter assembly housing	Pillow block (2 req'd)	Stab. ring (2 req'd)	Triple ring seal	
in								lbs
$8^{15}/_{16}$	9	**SDAF 23248 KA x $8^{15}/_{16}$**	23248 CACK/W33	SNP 148 x $8^{15}/_{16}$	SDAF 3248 KA x $8^{15}/_{16}$	36053-114	ERF 914	1 100
$9^{7}/_{16}$	$9^{1}/_{2}$	**SDAF 23252 KA x $9^{7}/_{16}$**	23252 CACK/W33	SNP 152 x $9^{7}/_{16}$	SDAF 3252 KA x $9^{7}/_{16}$	A 8968	ERF 891	1 350
$10^{7}/_{16}$	$10^{1}/_{2}$	**SDAF 23256 KA x $10^{7}/_{16}$**	23256 CACK/W33	SNP 3256 x $10^{7}/_{16}$	SDAF 3256 KA x $10^{7}/_{16}$	36053-157	ERF 973	1 400
$10^{15}/_{16}$	11	**SDAF 23260 KA x $10^{15}/_{16}$**	23260 CACK/W33	SNP 3260 x $10^{15}/_{16}$	SDAF 3260 KA x $10^{15}/_{16}$	36053-130	ERF 1002	1 900
$11^{15}/_{16}$	12	**SDAF 23264 KA x $11^{15}/_{16}$**	23264 CACK/W33	SNP 3264 x $11^{15}/_{16}$	SDAF 3264 KA x $11^{15}/_{16}$	36053-137	ERF 900	2 500
$12^{7}/_{16}$	$12^{1}/_{2}$	**SDAF 23268 KA x $12^{7}/_{16}$**	23268 CAK/W33	SNP 3268 x $12^{7}/_{16}$	SDAF 3268 KA x $12^{7}/_{16}$	36053-143	ERF 975	2 650
$13^{7}/_{16}$	$13^{1}/_{2}$	**SDAF 23272 KA x $13^{7}/_{16}$**	23272 CAK/W33	SNP 3272 x $13^{7}/_{16}$	SDAF 3272 KA x $13^{7}/_{16}$	36053-150	ERF 979	2 950
$13^{15}/_{16}$	14	**SDAF 23276 KA x $13^{15}/_{16}$**	23276 CAK/W33	SNP 3276 x $13^{15}/_{16}$	SDAF 3276 KA x $13^{15}/_{16}$	36053-152	ERF 977	3 050
$14^{15}/_{16}$	15	**SDAF 23280 KA x 15**	23280 CAK/W33	SNP 3280 x 15	SDAF 3280 KA x 15	36053-165	ERF 976	4 500
$15^{3}/_{4}$	*	**SDAF 23284 KA x $15^{3}/_{4}$**	23284 CAK/W33	SNP 3284 x $15^{3}/_{4}$	SDAF 3284 KA x $15^{3}/_{4}$	36053-154	ERF 907	5 000
$16^{1}/_{2}$	*	**SDAF 23288 KA x $16^{1}/_{2}$**	23288 CAK/W33	SNP 3288 x $16^{1}/_{2}$	SDAF 3288 KA x $16^{1}/_{2}$	36053-159	ERF 958	5 050

1) Requires different adapter sleeve and seals.

* SKF will evaluate optional shaft diameters upon request.

Note: All SDAF extended range series are custom manufactured





Taconite seal option

Extended range / adapter mount

SDAF 23200 KA
Two-piece heavy duty cast-iron housing
Self-aligning / 23200 K series bearing
Held or free bearing
Oil or grease lubrication
ERF triple ring seals
Custom manufactured

How to order

These housings are made-to-order, customized bearing solutions and should be reviewed by our application engineers. Please refer to page 427 for required application information.

For shaft diameter tolerances see page 359; for bearing information see page 167; for other seal speed limits see page 353.

Designations Complete pillow block	A	B	C	D	E Max	E Min	E Drilled holes	F	H	**Static oil level** K	L	**Bolts** (No. req'd)	R	T
	in													
SDAF 23248 KA x 8 15/16	10 1/4	35	13 1/8	3/4	30 1/2	29	29 3/4	8 3/4	20 7/8	3 9/32	13 3/4	(4)-1 5/8	4 7/8	17 1/2
SDAF 23252 KA x 9 7/16	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4 3/8	15 1/2	(4)-1 5/8	5 7/32	19
SDAF 23256 KA x 10 7/16	12	38 1/4	14 3/4	4	33 1/2	32 3/4	33 1/8	9	23 7/16	4	15 1/2	(4)-1 5/8	5 11/32	19
SDAF 23260 KA x 10 15/16	12 13/16	41 3/4	15 3/4	4 1/2	36 1/2	35	35 3/4	10 1/2	25 3/4	4 3/32	16 3/4	(4)-1 7/8	5 3/4	20 3/4
SDAF 23264 KA x 11 15/16	14	43 3/4	17 3/4	5	38 1/4	36 3/4	37 1/2	10 3/4	27 7/8	4 3/4	18 3/4	(4)-2	6 5/32	22 1/2
SDAF 23268 KA x 12 7/16	14 1/2	46	17 1/8	5 1/4	40 3/4	39 1/4	40	11	28 7/8	4 17/32	17 5/8	(4)-2	6 19/32	21 3/4
SDAF 23272 KA x 13 7/16	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	5 1/8	19 1/4	(4)-2 1/4	6 3/4	24
SDAF 23276 KA x 13 15/16	15 1/2	48 3/4	18 3/4	5 1/2	43 1/2	41 3/4	42 5/8	12 1/4	30 1/2	4 9/16	19 1/4	(4)-2 1/4	7 1/32	24
SDAF 23280 KA x 15	17	52	21	5 1/2	46 1/8	44 3/8	45 1/4	14 1/2	33 3/4	5 5/8	21 3/4	(4)-2 1/4	7 1/2	26 1/2
SDAF 23284 KA x 15 3/4	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 25/32	22 1/4	(4)-2 1/2	7 13/16	27
SDAF 23288 KA x 16 1/2	18	54 1/4	21 5/8	5 3/4	48 7/8	47 1/8	48	15	35 3/4	5 1/4	22 1/4	(4)-2 1/2	8 9/32	27

Mounting accessories / introduction

Adapters

The adapter is used to hold and locate a tapered bore bearing on a cylindrical shaft seat. It permits relatively wide tolerances for the shaft diameter and makes it unnecessary to heat the bearing or use a press when mounting in order to obtain an interference fit of the inner ring on the shaft.

SKF adapters are manufactured with the same precise techniques and care used in the manufacture of bearings.

SKF adapters are generally supplied complete with locknut and locking device.

Dimensions and tolerances

The adapters, locknuts, lockwashers, lockplates and withdrawal sleeves generally conform to ABMA standard 8.2.

In addition to the inch bore accessories shown in these catalog tables the SKF manufacturing program includes metric bore adapter sleeves and withdrawal sleeves along with their associated locking devices. Consult SKF for information.

Hydraulic assist adapters (OSNW and OSNP)

SKF inch adapter sleeves for bearing sizes 26 (22226, 23226) and larger, can be supplied with oil supply ducts and distribution grooves for pressurized oil to assist in mounting and dismounting. M6 x 1 threads are used for all inch dimension adapter sleeves. For corresponding information on inch dimension adapter sleeves, please consult SKF Applications Engineering.



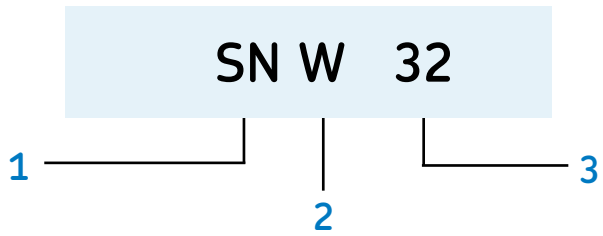
Complete adapters

Hydraulic assist adapters (nomenclature):

OS....	Inlet on non-threaded side to distribution groove on tapered surface
OS....H	Inlet on threaded side to distribution groove on tapered surface
OS....HB	Inlet on threaded side to distribution groove on tapered surface; 2nd inlet on threaded side to distribution groove on bore surface
OS....B	Inlet on non-threaded side to distribution groove on tapered surface; 2nd inlet on non-threaded side to distribution groove on bore surface

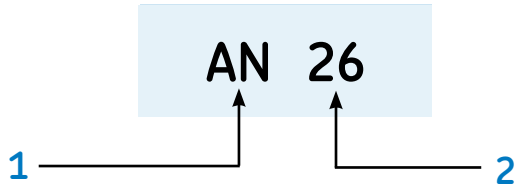
Mounting accessories / nomenclature

Complete adapters



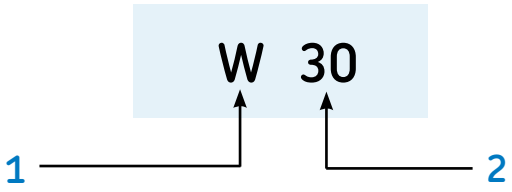
1. Adapters:	
S	Adapter sleeve
N	Locknut
2. Locking device:	
S	Lockwasher
N	Lockplate
3. Size:	

Locknuts



1. Locknut:	
N	Heavy section
AN	Heavy section
NO	Light section
2. Size:	

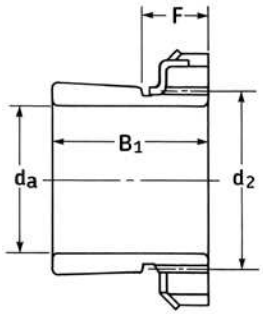
Lockwashers / lockplates



1. Locking device:	
W	Lockwasher, heavy section
WO	Lockwasher, light section
PL	Lockplate
2. Size:	

Adapters

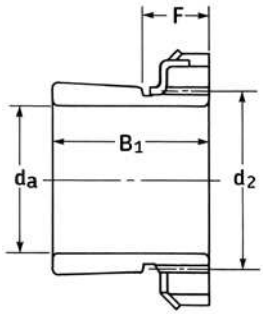
Bearings series 12, 13, 222



How to order	Specify
Complete adapter	Shaft size
SNW 5	x 3/4

All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard. Consult SKF for optional shaft sizes.

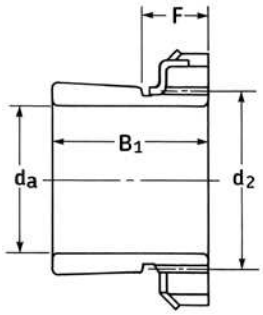
Bearing size	Shaft dia.		Designations				Mass	Dimensions			
	d_a Standard	Optional	Complete adapter	Locknut	Lockwasher	Adapter sleeve		B_1	F	Mean thread pitch diameter d_2	Threads per inch
	in						lbs				
05	3/4	–	**SNW 5**	N 05	W 05	S 5	0.22	1.269	0.562	0.9470	32
06	15/16	–	**SNW 6**	N 06	W 06	S 6	0.28	1.353	0.622	1.1339	18
07	1 3/16	–	**SNW 7**	N 07	W 07	S 7	0.35	1.459	0.654	1.3369	18
08	1 5/16	–	**SNW 8**	N 08	W 08	S 8	0.41	1.504	0.662	1.5237	18
09	1 7/16	1 3/8, 1 1/2	**SNW 9**	N 09	W 09	S 9	0.62	1.584	0.662	1.7277	18
10	1 11/16	1 5/8, 1 3/4	**SNW 10**	N 10	W 10	S 10	0.73	1.765	0.724	1.9277	18
11	1 15/16	1 7/8, 2	**SNW 11**	N 11	W 11	S 11	0.80	1.845	0.729	2.1174	18
12	2 1/16		**SNW 12**	N 12	W 12	S 12	1.10	1.989	0.760	2.3204	18
13	2 3/16	2 1/8, 2 1/4	**SNW 13**	N 13	W 13	S 13	1.40	2.100	0.792	2.5084	18
14	2 5/16	–	**SNW 14**	N 14	W 14	S 14	1.80	2.274	0.792	2.7114	18
15	2 7/16	2 3/8, 2 1/2	**SNW 15**	AN 15	W 15	S 15	2.25	2.296	0.895	2.8752	12
16	2 11/16	2 5/8, 2 3/4	**SNW 16**	AN 16	W 16	S 16	2.40	2.376	0.895	3.0790	12
17	2 15/16	2 13/16, 2 7/8, 3	**SNW 17**	AN 17	W 17	S 17	2.90	2.486	0.926	3.2812	12
18	3 3/16	3 1/16, 3 1/8, 3 1/4	**SNW 18**	AN 18	W 18	S 18	3.05	2.646	1.010	3.4682	12
19	3 5/16	–	**SNW 19**	AN 19	W 19	S 19	4.05	2.760	1.041	3.6712	12
20	3 7/16	3 5/16, 3 3/8, 3 1/2	**SNW 20**	AN 20	W 20	S 20	4.40	2.869	1.073	3.8592	12
21	3 11/16	–	**SNW 21**	AN 21	W 21	S 21	4.55	2.987	1.073	4.0618	12
22	3 15/16	3 13/16, 3 7/8, 4	**SNW 22**	AN 22	W 22	S 22	5.00	3.206	1.135	4.2648	12
24	4 3/16	4 1/16, 4 1/8, 4 1/4	**SNW 24**	AN 24	W 24	S 24	6.65	3.466	1.166	4.6558	12
26	4 7/16	4 5/16, 4 3/8, 4 1/2	**SNW 26**	AN 26	W 26	S 26	9.70	3.762	1.229	5.0458	12
28	4 15/16	4 13/16, 4 7/8, 5	**SNW 28**	AN 28	W 28	S 28	10.5	3.981	1.291	5.4368	12
30	5 3/16	5 1/8, 5 1/4	**SNW 30**	AN 30	W 30	S 30	16.0	4.241	1.354	5.8278	12
32	5 7/16	5 3/8, 5 1/2	**SNW 32**	AN 32	W 32	S 32	15.5	4.578	1.510	6.1953	8
34	5 15/16	5 13/16, 5 7/8, 6	**SNW 34**	AN 34	W 34	S 34	19.5	4.847	1.541	6.5703	8
36	6 7/16	6 5/16, 6 3/8, 6 1/2	**SNW 36**	AN 36	W 36	S 36	20.5	5.038	1.573	6.9773	8
38	6 15/16	6 13/16, 6 7/8, 7	**SNW 38**	AN 38	W 38	S 38	23.5	5.261	1.604	7.3833	8
40	7 3/16	7 1/8, 7 1/4	**SNW 40**	AN 40	W 40	S 40	30.5	5.484	1.666	7.7571	8
44	7 15/16	7 13/16, 7 7/8, 8	**SNW 44**	N 44	W 44	S 44	32.5	5.901	1.698	8.5378	8



How to order	Specify
Complete adapter	Shaft size
SNW 3024	x 4 3/16

All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
Consult SKF for optional shaft sizes.

Bearing size	Shaft dia. d_a		Designations				Mass	Dimensions			
	Standard	Optional	Complete adapter	Locknut	Lockwasher	Adapter sleeve		B_1	F	Mean thread pitch diameter d_2	Threads per inch
	in						lbs				
24	4 3/16	4 1/16, 4 1/8, 4 1/4	**SNW 3024**	N 024	W 024	S 3024	6.15	2.947	1.250	4.6558	12
26	4 7/16	4 5/16, 4 3/8, 4 1/2	**SNW 3026**	N 026	W 026	S 3026	7.50	3.237	1.313	5.0458	12
28	4 15/16	4 13/16, 4 7/8, 5	**SNW 3028**	N 028	W 028	S 3028	8.45	3.340	1.375	5.4368	12
30	5 3/16	5 1/8, 5 1/4	**SNW 3030**	N 030	W 030	S 3030	9.80	3.492	1.406	5.8278	12
32	5 7/16	5 3/8, 5 1/2	**SNW 3032**	N 032	W 032	S 3032	12.0	3.711	1.468	6.1953	8
34	5 15/16	5 13/16, 5 7/8, 6	**SNW 3034**	N 034	W 034	S 3034	13.5	4.019	1.500	6.5703	8
36	6 7/16	6 5/16, 6 3/8, 6 1/2	**SNW 3036**	N 036	W 036	S 3036	15.0	4.337	1.531	6.9773	8
38	6 15/16	6 13/16, 6 7/8, 7	**SNW 3038**	N 038	W 038	S 3038	16.5	4.412	1.594	7.3833	8
40	7 3/16	7 1/8, 7 1/4	**SNW 3040**	N 040	W 040	S 3040	19.5	4.750	4.656	7.7571	8
44	7 15/16	7 13/16, 7 7/8, 8	**SNW 3044**	N 044	W 044	S 3044	24.5	5.130	1.750	8.5378	8
48	8 15/16	8 7/16, 8 1/2, 9	**SNP 3048**	N 048	PL 48	S 3048	32.0	5.432	1.968	9.3245	6
52	9 7/16	9 1/2	**SNP 3052**	N 052	PL 52	S 3052	41.0	6.019	2.125	10.0742	6
56	10 7/16	10, 10 1/2	**SNP 3056**	N 056	PL 56	S 3056	45.5	6.191	2.219	10.8852	6
60	10 15/16	11	**SNP 3060**	N 060	PL 60	S 3060	59.0	6.727	2.281	11.6662	6
64	11 15/16	11 1/2, 12	**SNP 3064**	N 064	PL 64	S 3064	65.0	6.946	2.375	12.4440	6
68	12 7/16	12 1/2	**SNP 3068**	N 068	PL 68	S 3068	78.0	7.543	2.531	13.1910	5
72	13 7/16	13, 13 1/2	**SNP 3072**	N 072	PL 72	S 3072	86.0	7.579	2.531	14.0220	5
76	13 15/16	14	**SNP 3076**	N 076	PL 76	S 3076	94.5	7.743	2.656	14.8090	5
80	15	15	**SNP 3080**	N 080	PL 80	S 3080	100.0	8.411	2.813	15.5970	5
84	15 3/4	–	**SNP 3084**	N 084	PL 84	S 3084	105.0	8.498	2.813	16.3840	5
88	16 1/2	–	**SNP 3088**	N 088	PL 88	S 3088	130.0	9.100	3.228	17.2830	5
92	17	–	**SNP 3092**	N 092	PL 92	S 3092	157.0	9.336	3.228	18.0710	5
96	18	–	**SNP 3096**	N 096	PL 96	S 3096	165.0	9.446	3.260	18.8580	5
500	18 1/2	–	**SNP 30/500**	N 500	PL 500	S 32/500	200.0	9.838	3.573	19.6460	5
530	19 1/2	–	**SNP 30/530**	N 530	PL 530	S 32/530	263.0	10.679	3.573	20.8270	4

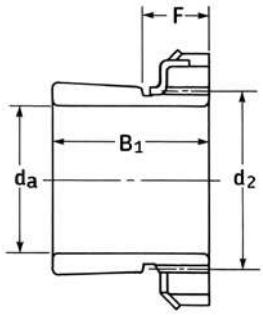


How to order	Specify
Complete adapter	Shaft size
SNW 3122	x 3 15/16

All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard. Consult SKF for optional shaft sizes.

Bearing size	Shaft dia. d_a Standard	Shaft dia. d_a Optional	Designations Complete adapter	Locknut	Lockwasher	Adapter sleeve	Mass	Dimensions B_1	F	Mean thread pitch diameter d_2	Threads per inch
	in						lbs				
22	3 15/16	–	**SNW 3122**	N 022	W 022	S 22	4.25	3.206	1.135	4.2648	12
24	4 1/4	–	**SNW 3124**	N 024	W 024	S 24	5.85	3.466	1.166	4.6558	12
26	4 7/16	–	**SNW 3126**	N 026	W 026	S 26	8.35	3.762	1.229	5.0458	12
28	4 15/16	–	**SNW 3128**	N 028	W 028	S 28	8.85	3.981	1.291	5.4368	12
30	5 3/16	–	**SNW 3130**	N 030	W 030	S 30	13.5	4.241	1.354	5.8278	12
32	5 7/16	–	**SNW 3132**	N 032	W 032	S 32	13.5	4.578	1.510	6.1953	8
34	5 15/16	–	**SNW 3134**	N 034	W 034	S 34	16.0	4.847	1.541	6.5703	8
36	6 7/16	–	**SNW 3136**	N 036	W 036	S 36	17.0	5.038	1.573	6.9773	8
38	6 15/16	–	**SNW 3138**	N 038	W 038	S 38	19.5	5.261	1.604	7.3833	8
40	7 3/16	–	**SNW 3140**	N 040	W 040	S 40	28.5	5.484	1.666	7.7571	8
44	7 15/16	–	**SNW 3144**	N 044	W 044	S 44	28.0	5.901	1.698	8.5378	8
48	8 15/16		**SNP 3148**	N 048	PL 48	S 48	37.5	6.638	1.979	9.3245	6
52	9 7/16	9 1/2	**SNP 3152**	N 052	PL 52	S 52	44.0	7.593	2.125	10.0742	6
56	10	10 1/2	**SNP 3156**	N 056	PL 56	S 3156	46.5	7.766	2.219	10.8852	6
60	10 15/16	11	**SNP 3160**	N 060	PL 60	S 3160	59.5	8.830	2.281	11.6662	6
64	12	12	**SNP 3164**	N 064	PL 64	S 3164	74.0	9.111	2.375	12.4440	6
68	12 7/16	12 1/2	**SNP 3168**	N 068	PL 68	S 3168	93.5	9.787	2.531	13.1910	5
72	13 7/16	13 1/2	**SNP 3172**	N 072	PL 72	S 3172	120.0	9.862	2.531	14.0220	5
76	13 15/16	14	**SNP 3176**	N 076	PL 76	S 3176	125.0	10.066	2.656	14.8090	5
80	15	15	**SNP 3180**	N 080	PL 80	S 3180	140.0	10.459	2.875	15.5970	5
84	15 3/4	–	**SNP 3184**	N 084	PL 84	S 3184	145.0	11.412	2.938	16.3840	5
88	16 1/2	–	**SNP 3188**	N 088	PL 88	S 3188	151.0	11.817	3.228	17.2830	5
92	17	–	**SNP 3192**	N 092	PL 92	S 3192	209.0	12.368	3.323	18.0710	5
96	18	–	**SNP 3196**	N 096	PL 96	S 3196	201.0	12.714	3.354	18.8580	5

Bearings series 223 and 232
d_a $1^{7}/_{16}$ - $5^{3}/_{16}$ in

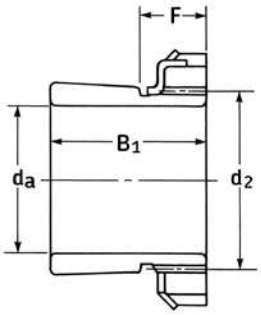


All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
Consult SKF for optional shaft sizes.

Bearing size	Shaft dia.	Designations				Mass	Dimensions			
	d_a Standard	Complete adapter	Locknut	Lockwasher	Adapter sleeve		B_1	F	Mean thread pitch diameter d_2	Threads per inch
	in					lbs				
09	$1^{7}/_{16}$	**SNW 109**	N 09	W 09	S 109	0.71	2.133	0.622	1.7277	18
10	$1^{11}/_{16}$	**SNW 110**	N 10	W 10	S 110	0.87	2.394	0.724	1.9277	18
11	$1^{15}/_{16}$	**SNW 111**	N 11	W 11	S 111	0.94	2.516	0.729	2.1174	18
12	$2^{1}/_{16}$	**SNW 112**	N 12	W 12	S 112	1.60	2.659	0.760	2.3204	18
13	$2^{3}/_{16}$	**SNW 113**	N 13	W 13	S 113	1.75	2.771	0.792	2.5084	18
14	$2^{7}/_{16}$	**SNW 114**	N 14	W 14	S 114	2.05	2.945	0.792	2.7114	18
15	$2^{7}/_{8}$	**SNW 115**	AN 15	W 15	S 115	2.95	3.084	0.895	2.8752	12
16	$2^{11}/_{16}$	**SNW 116**	AN 16	W 16	S 116	3.20	3.204	0.895	3.0790	12
17	$2^{15}/_{16}$	**SNW 117**	AN 17	W 17	S 117	3.40	3.312	0.926	3.2812	12
18	$3^{3}/_{16}$	**SNW 118**	AN 18	W 18	S 118	4.00	3.553	1.010	3.4682	12
19	$3^{5}/_{16}$	**SNW 119**	AN 19	W 19	S 119	4.80	3.702	1.041	3.6712	12
20	$3^{7}/_{16}$	**SNW 120**	AN 20	W 20	S 120	6.25	3.971	1.073	3.8592	12
22	$3^{15}/_{16}$	**SNW 122**	AN 22	W 22	S 122	6.45	4.348	1.135	4.2648	12
24	$4^{3}/_{16}$	**SNW 124**	AN 24	W 24	S 124	7.80	4.648	1.166	4.6558	12
26	$4^{7}/_{16}$	**SNW 126**	AN 26	W 26	S 126	12.5	4.982	1.229	5.0458	12
28	$4^{15}/_{16}$	**SNW 128**	AN 28	W 28	S 128	13.0	5.323	1.291	5.4368	12
30	$5^{3}/_{16}$	**SNW 130**	AN 30	W 30	S 130	8.15	5.621	1.354	5.8278	12

Bearings series 223 and 232

d_a $5^{7}/_{16}$ - $16^{1}/_{2}$ in



How to order	Specify
Complete adapter	Shaft size
SNW 132	x $5^{7}/_{16}$

All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard. Consult SKF for optional shaft sizes.

Bearing size	Shaft dia.		Designations				Mass	Dimensions			
	d_a Standard	Optional	Complete adapter	Locknut	Lockwasher/ lockplate	Adapter sleeve		B_1	F	Mean thread pitch diameter d_2	Threads per inch
	in						lbs				
32	$5^{7}/_{16}$	$5^{3}/_{8}$, $5^{1}/_{2}$	**SNW 132**	AN 32	W 32	S 132	18.0	5.920	1.510	6.1953	8
34	$5^{15}/_{16}$	$5^{13}/_{16}$, $5^{7}/_{8}$, 6	**SNW 134**	AN 34	W 34	S 134	21.0	6.188	1.541	6.5703	8
36	$6^{7}/_{16}$	–	**SNW 136**	AN 36	W 36	S 136	22.5	6.456	1.573	6.9773	8
38	$6^{15}/_{16}$	$6^{13}/_{16}$, $6^{7}/_{8}$, 7	**SNW 138**	AN 38	W 38	S 138	28.0	6.758	1.604	7.3833	8
40	$7^{3}/_{16}$	$7^{1}/_{8}$, $7^{1}/_{4}$	**SNW 140**	AN 40	W 40	S 140	35.5	7.095	1.666	7.7571	8
44	$7^{15}/_{16}$	–	**SNW 144**	N 44	W 44	S 144	46.5	7.287	1.698	8.5378	8
48	$8^{15}/_{16}$	–	**SNP 148**	N 048	PL 48	S 148	48.5	8.109	1.979	9.3245	6
52	$9^{7}/_{16}$	$9^{1}/_{2}$	**SNP 152**	N 052	PL 52	S 152	54.5	8.774	2.125	10.0742	6
56	$10^{7}/_{16}$	$10^{1}/_{2}$	**SNP 3256**	N 056	PL 56	S 3256	59.0	8.947	2.219	10.8852	6
60	$10^{15}/_{16}$	11	**SNP 3260**	N 060	PL 60	S 3260	68.5	9.640	2.281	11.6662	6
64	$11^{15}/_{16}$	12	**SNP 3264**	N 064	PL 64	S 3264	98.0	10.371	2.375	12.4440	6
68	$12^{7}/_{16}$	$12^{1}/_{2}$	**SNP 3268**	N 068	PL 68	S 3268	105.0	11.126	2.531	13.1910	5
72	$13^{7}/_{16}$	$13^{1}/_{2}$	**SNP 3272**	N 072	PL 72	S 3272	135.0	11.437	2.531	14.0220	5
76	$13^{15}/_{16}$	14	**SNP 3276**	N 076	PL 76	S 3276	145.0	11.877	2.656	14.8090	5
80	15	15	**SNP 3280**	N 080	PL 80	S 3280	165.0	12.664	2.875	15.5970	5
84	$15^{3}/_{4}$	–	**SNP 3284**	N 084	PL 84	S 3284	165.0	13.302	2.938	16.3840	5
88	$16^{1}/_{2}$	–	**SNP 3288**	N 088	PL 88	S 3288	190.0	13.943	3.228	17.2830	5

Mounting accessories / locknuts lockwashers and lockplates

Locknuts, lockwashers and lockplates

Locknuts and lockwashers are commonly used as effective means for holding bearing inner rings axially on the shaft. They are also frequently used to secure gears, belt pulleys and other machine components. The locknuts are accurately made to insure that the abutment face will be square with the shaft axis, thus avoiding distortion of the shaft during tightening.

The lockwashers are made from selected high quality steel, heat treated, and they must pass a final inspection that requires their surfaces to be smooth and free from burrs.

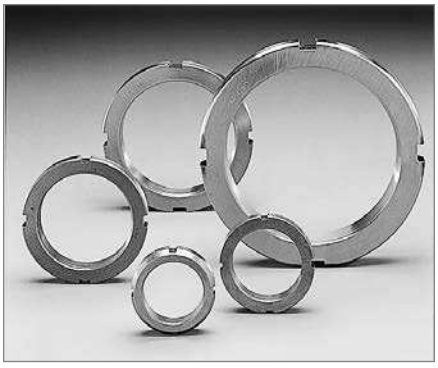
The lockplate is a steel stamping that engages the slot of the sleeve and is secured to the end face of larger nuts by two screws. This unit is used in lieu of lockwashers.

Wherever bearings must be held in permanent or correct position, SKF locknuts, lockwashers and lockplates are recommended.

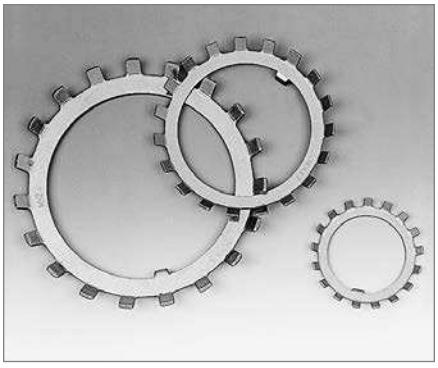
Dimensions and tolerances

The adapters, locknuts, lockwashers, lockplates and withdrawal sleeves generally conform to ABMA standard 8.2.

In addition to the inch bore accessories shown in these catalog tables, the SKF manufacturing program includes metric bore adapter sleeves and withdrawal sleeves along with their associated locking devices. Consult SKF for information.

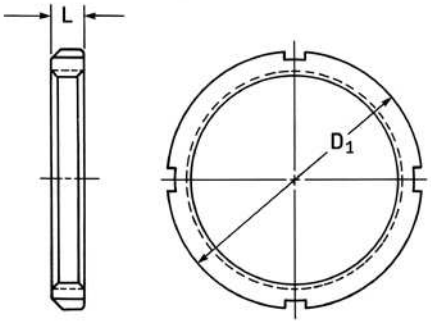


Locknuts



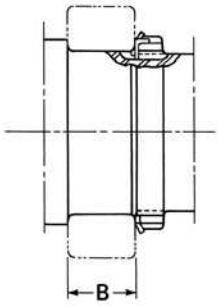
Lockwashers / Lockplates

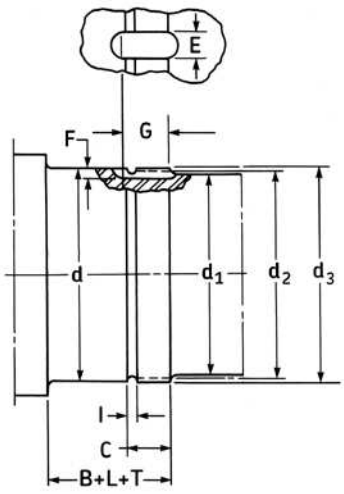
Heavy section
Locknuts and lockwashers
Bearing Series 12, 13, 222, 223, 232



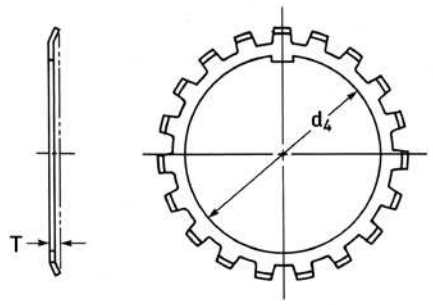
How to order	Specify
N 00	Locknut
W 00	Lockwasher

All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.





Bearing size	Designations		Combined mass	Shaft dimensions		
	Locknut	Lockwasher		d	Threads major dia. d_3 max	min.
			lbs	in		
00	**N 00**	**W 00**	0.02	0.3937	0.3910	0.3856
01	**N 01**	**W 01**	0.04	0.4724	0.4690	0.4636
02	**N 02**	**W 02**	0.05	0.5906	0.5860	0.5806
03	**N 03**	**W 03**	0.07	0.6693	0.6640	0.6586
04	**N 04**	**W 04**	0.11	0.7874	0.7810	0.7756
05	**N 05**	**W 05**	0.14	0.9843	0.9690	0.9636
06	**N 06**	**W 06**	0.16	1.1811	1.1730	1.1648
07	**N 07**	**W 07**	0.24	1.3780	1.3760	1.3678
08	**N 08**	**W 08**	0.27	1.5748	1.5630	1.5548
09	**N 09**	**W 09**	0.34	1.7717	1.7670	1.7588
10	**N 10**	**W 10**	0.39	1.9685	1.9670	1.9588
11	**N 11**	**W 11**	0.48	2.1654	2.1570	2.1488
12	**N 12**	**W 12**	0.54	2.3622	2.3600	2.3518
13	**N 13**	**W 13**	0.64	2.5591	2.5480	2.5398
14	**N 14**	**W 14**	0.73	2.7559	2.7510	2.7428
15	**AN 15**	**W 15**	0.90	2.9528	2.9330	2.9218
16	**AN 16**	**W 16**	1.05	3.1496	3.1370	3.1258
17	**AN 17**	**W 17**	1.20	3.3465	3.3400	3.3288
18	**AN 18**	**W 18**	1.50	3.5433	3.5270	3.5158
19	**AN 19**	**W 19**	1.75	3.7402	3.7300	3.7188
20	**AN 20**	**W 20**	2.05	3.9370	3.9180	3.9068



How to order	Specify
N 00	Locknut
W 00	Lockwasher

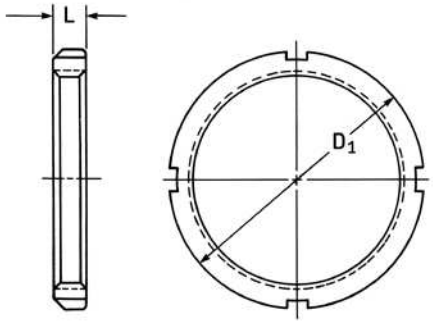
All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.

Dimensions

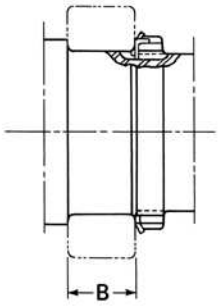
Thread pitch dia. d_2 max	Thread pitch dia. d_2 min	Threads per inch	d_1 max	C $+1/64$ –0	G $+1/32$ –0	I $+1/64$ –0	E $+1/64$ –0	F $+1/64$ –0	Locknut D_1	Locknut L	Lockwasher T	Lockwasher d_4
			in									
0.3707	0.3681	32	5/16	9/32	3/8	1/16	1/8	1/16	3/4	7/32	0.042	0.414
0.4487	0.4461	32	13/32	3/8	15/32	1/16	1/8	1/16	7/8	5/16	0.042	0.492
0.5657	0.5627	32	1/2	3/8	15/32	1/16	1/8	5/64	1	5/16	0.042	0.609
0.6437	0.6407	32	9/16	13/32	1/2	1/16	1/8	5/64	1 1/8	11/32	0.042	0.687
0.7607	0.7573	32	23/32	7/16	17/32	1/16	3/16	5/64	1 3/8	3/8	0.042	0.809
0.9487	0.9453	32	7/8	15/32	19/32	1/16	3/16	3/32	1 9/16	13/32	0.050	0.999
1.1369	1.1329	18	1 1/16	15/32	19/32	3/32	3/16	3/32	1 3/4	13/32	0.050	1.203
1.3399	1.3359	18	1 1/4	1/2	5/8	3/32	3/16	3/32	2 1/16	7/16	0.050	1.406
1.5269	1.5224	18	1 15/32	17/32	21/32	3/32	5/16	3/32	2 1/4	7/16	0.058	1.593
1.7309	1.7204	18	1 11/16	17/32	11/16	1/8	5/16	3/32	2 17/32	7/16	0.058	1.805
1.9309	1.9264	18	1 7/8	19/32	3/4	1/8	5/16	3/32	2 11/16	1/2	0.058	2.005
2.1209	2.1158	18	2 1/16	19/32	3/4	1/8	5/16	1/8	2 31/32	1/2	0.063	2.195
2.3239	2.3188	18	2 1/4	5/8	25/32	1/8	5/16	1/8	3 5/32	17/32	0.063	2.413
2.5119	2.5068	18	2 7/16	21/32	13/16	1/8	5/16	1/8	3 3/8	9/16	0.063	2.601
2.7149	2.7098	18	2 5/8	21/32	29/32	1/8	5/16	1/8	3 5/8	9/16	0.063	2.804
2.8789	2.8735	12	2 25/32	11/16	15/16	5/32	5/16	1/8	3 7/8	19/32	0.072	2.988
3.0829	3.0770	12	3	11/16	15/16	5/32	3/8	1/8	4 5/32	19/32	0.072	3.192
3.2859	3.2800	12	3 3/16	23/32	31/32	5/32	3/8	1/8	4 13/32	5/8	0.072	3.410
3.4729	3.4655	12	3 3/8	13/16	1 1/16	5/32	3/8	5/32	4 21/32	11/16	0.094	3.597
3.6759	3.6685	12	3 9/16	27/32	1 3/32	5/32	3/8	5/32	4 15/16	23/32	0.094	3.815
3.8639	3.8565	12	3 25/32	7/8	1 3/16	5/32	3/8	5/32	5 3/16	3/4	0.094	4.003

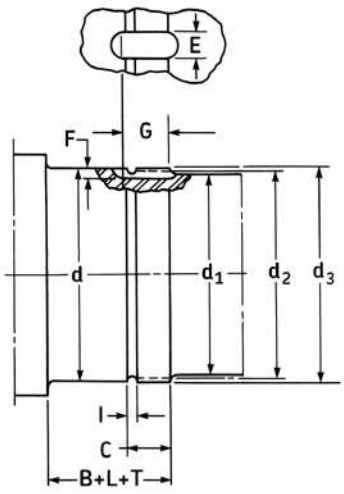
Heavy section
Locknuts and lockwashers
Bearing series 12, 13, 222, 223, 232*

How to order	Specify
AN 21	Locknut
W 21	Lockwasher



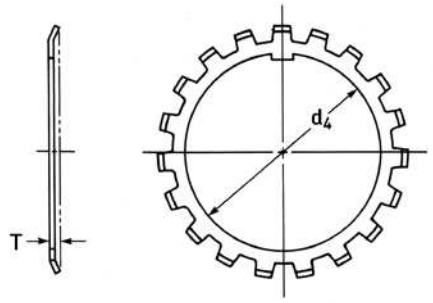
All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.





Bearing size	Designations		Combined mass	Shaft dimensions		
	Locknut	Lockwasher		d	Threads major dia. d_3 max	min
			lbs	in		
21	**AN 21**	**W 21**	2.25	4.1339	4.122	4.1108
22	**AN 22**	**W 22**	2.45	4.3307	4.325	4.3138
24	**AN 24**	**W 24**	2.80	4.7244	4.716	4.7048
26	**AN 26**	**W 26**	3.90	5.1181	5.106	5.0948
28	**AN 28**	**W 28**	4.30	5.5118	5.497	5.4858
30	**AN 30**	**W 30**	5.40	5.9055	5.888	5.8768
32	**AN 32**	**W 32**	6.15	6.2992	6.284	6.2688
34	**AN 34**	**W 34**	7.55	6.6929	6.659	6.6438
36	**AN 36**	**W 36**	8.25	7.0866	7.066	7.0508
38	**AN 38**	**W 38**	8.80	7.4803	7.472	7.4568
40	**AN 40**	**W 40**	9.70	7.8740	7.847	7.8318
44	**N 44**	**W 44**	13.50	8.6614	8.628	8.6128

*For bearings in series 232, larger than a 23244, use locknuts and lockplates on pages 452 and 453.



How to order	Specify
AN 21	Locknut
W 21	Lockwasher

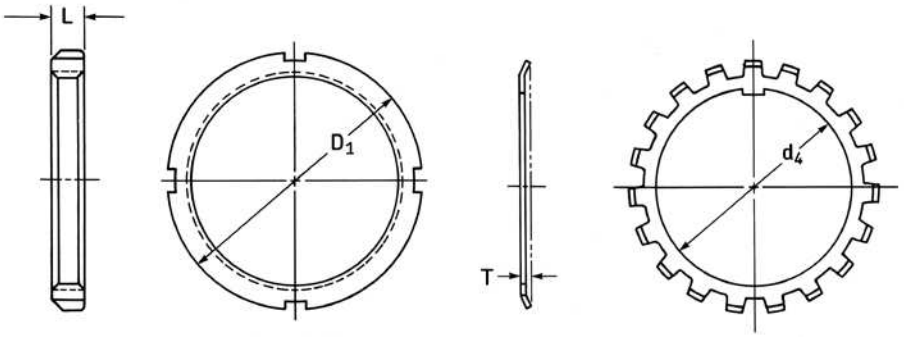
All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.

Dimensions

Thread pitch dia. d_2		Threads per	d_1	C	G	I	E	F	Locknut		Lockwasher	
max	min	inch	max	$+1/16$ -0	$+1/32$ -0	$+1/16$ -0	$+1/16$ -0	$+1/64$ -0	D_1	L	T	d_4
			in									
4.0679	4.0596	12	$3\,15/16$	$7/8$	$1\,3/16$	$5/32$	$3/8$	$5/32$	$5\,7/16$	$3/4$	0.094	4.207
4.2709	4.2626	12	$4\,3/16$	$29/32$	$1\,7/32$	$5/32$	$3/8$	$3/16$	$5\,23/32$	$25/32$	0.125	4.410
4.6619	4.6536	12	$4\,9/16$	$15/16$	$1\,1/4$	$5/32$	$3/8$	$3/16$	$6\,1/8$	$13/16$	0.125	4.816
5.0519	5.0436	12	$4\,15/16$	1	$1\,5/16$	$5/32$	$1/2$	$3/16$	$6\,3/4$	$7/8$	0.125	5.209
5.4429	5.4346	12	$5\,5/16$	$1\,1/16$	$1\,3/8$	$5/32$	$5/8$	$3/16$	$7\,3/32$	$15/16$	0.125	5.600
5.8339	5.8256	12	$5\,3/4$	$1\,1/8$	$1\,1/2$	$5/32$	$5/8$	$7/32$	$7\,11/16$	$31/32$	0.156	6.001
6.2028	6.1937	8	$6\,1/8$	$1\,3/16$	$1\,9/16$	$1/4$	$5/8$	$15/64$	$8\,1/16$	$1\,1/32$	0.156	6.407
6.5778	6.5687	8	$6\,1/2$	$1\,7/32$	$1\,19/32$	$1/4$	$3/4$	$15/64$	$8\,21/32$	$1\,1/16$	0.156	6.782
6.9848	6.9757	8	$6\,29/32$	$1\,1/4$	$1\,5/8$	$1/4$	$3/4$	$15/64$	$9\,1/16$	$1\,3/32$	0.156	7.189
7.3908	7.3817	8	$7\,5/16$	$1\,9/32$	$1\,21/32$	$1/4$	$3/4$	$15/64$	$9\,15/32$	$1\,1/8$	0.156	7.595
7.7658	7.7544	8	$7\,11/16$	$1\,11/32$	$1\,23/32$	$1/4$	$7/8$	$15/64$	$9\,27/32$	$1\,3/16$	0.156	8.000
8.5468	8.5347	8	$8\,5/16$	$1\,3/8$	$1\,9/16$	$1/4$	$1\,1/16$	$3/8$	11	$1\,1/4$	0.156	8.719

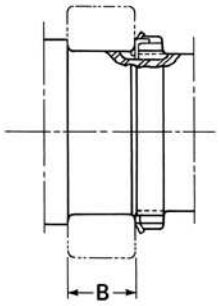
*For bearings in series 232, larger than a 23244, use locknuts and lockplates on pages 452 and 453.

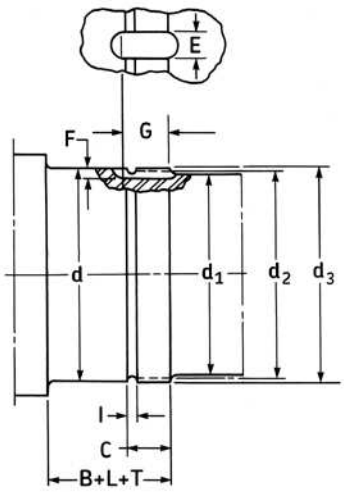
Light section
Locknuts, lockwashers and lockplates
Bearing series 230, 231, 23248 and larger



How to order	Specify
N 022	Locknut
W 022	Lockwasher

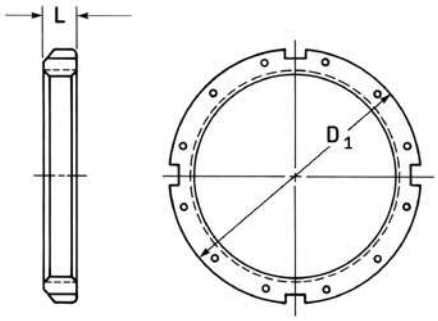
All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.

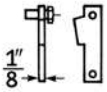




(B+L+1/4" for N 048-N 076)

Bearing size	Designations		Combined mass	Shaft dimensions		
	Locknut	Lockwasher		d	Threads major dia. d_3 max	min
			lbs	in		
22	**N 022**	**W 022**	1.75	4.3307	4.325	4.3138
24	**N 024**	**W 024**	1.90	4.7244	4.716	4.7048
26	**N 026**	**W 026**	2.65	5.1181	5.106	5.0948
28	**N 028**	**W 028**	2.60	5.5118	5.497	5.4858
30	**N 030**	**W 030**	3.65	5.9055	5.888	5.8768
32	**N 032**	**W 032**	4.15	6.2992	6.284	6.2688
34	**N 034**	**W 034**	4.50	6.6929	6.659	6.6438
36	**N 036**	**W 036**	4.80	7.0866	7.066	7.0508
38	**N 038**	**W 038**	6.65	7.4803	7.472	7.4568
40	**N 040**	**W 040**	7.65	7.8740	7.847	7.8318
44	**N 044**	**W 044**	9.25	8.6614	8.628	8.6128
48	**N 048**	**PL 48**	13.0	9.4488	9.442	9.4218
52	**N 052**	**PL 52**	15.0	10.2362	10.192	10.1718
56	**N 056**	**PL 56**	17.0	11.0236	11.004	10.9838
60	**N 060**	**PL 60**	23.0	11.8110	11.785	11.7648
64	**N 064**	**PL 64**	26.0	12.5984	12.562	12.5418
68	**N 068**	**PL 68**	29.5	13.3858	13.303	13.2870
72	**N 072**	**PL 72**	30.0	14.1732	14.134	14.1180
76	**N 076**	**PL 76**	41.0	14.9606	14.921	14.9050
80	**N 080**	**PL 80**	46.0	15.7480	15.709	15.6930
84	**N 084**	**PL 84**	49.0	16.5354	16.496	16.4800
88	**N 088**	**PL 88**	66.5	17.3228	17.283	17.2670
92	**N 092**	**PL 92**	68.5	18.1102	18.071	18.0550
96	**N 096**	**PL 96**	71.5	18.8976	18.858	18.8420
1500	**N 500**	**PL 500**	79.0	19.6460	19.646	19.6440
1530	**N 530**	**PL 530**	107.0	20.8270	20.827	20.8070





Lockplate and capscrew

Light section
Locknuts, lockwashers and lockplates
Bearing series 230, 231, 23248 and larger

How to order	Specify
N 022	Locknut
W 022	Lockwasher

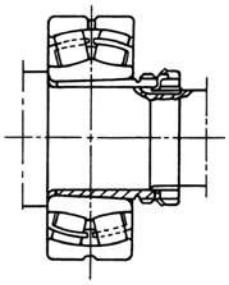
All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.

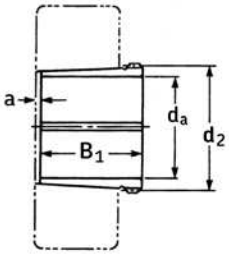
Dimensions

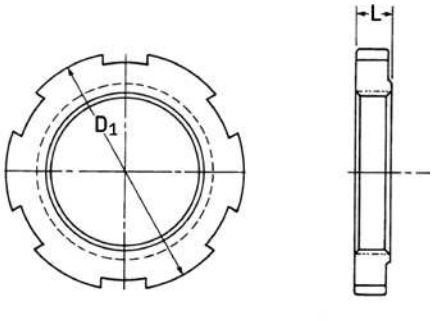
Thread pitch dia. d_2 max	min	Threads per inch	d_1 max	C $+1/64$ –0	G $+1/32$ –0	I $+1/64$ –0	E $+1/64$ –0	F $+1/64$ –0	Locknut D_1	L	Lockwasher T	d_4
			in									
4.2709	4.2626	12	4 3/16	29/32	1 7/32	5/32	3/8	3/16	5 5/16	25/32	0.125	4.410
4.6619	4.6536	12	4 9/16	15/16	1 1/4	5/32	3/8	3/16	5 11/16	13/16	0.125	4.816
5.0519	5.0436	12	4 15/16	1	1 5/16	5/32	1/2	3/16	6 1/8	7/8	0.125	5.209
5.4429	5.4346	12	5 5/16	1 1/16	1 3/8	5/32	5/8	3/16	6 1/2	15/16	0.125	5.600
5.8339	5.8256	12	5 23/32	1 1/8	1 1/2	5/32	5/8	7/32	7 1/8	31/32	0.125	6.000
6.2028	6.1937	8	6 1/8	1 3/16	1 9/16	1/4	5/8	15/64	7 1/2	1 1/32	0.125	6.407
6.5778	6.5687	8	6 1/2	1 7/32	1 19/32	1/4	3/4	15/64	7 7/8	1 1/16	0.125	6.782
6.9848	6.9757	8	6 9/32	1 1/4	1 5/8	1/4	3/4	15/64	8 1/4	1 3/32	0.125	7.189
7.3908	7.3817	8	7 5/16	1 9/32	1 21/32	1/4	3/4	15/64	8 11/16	1 1/8	0.125	7.595
7.7658	7.7544	8	7 11/16	1 11/32	1 23/32	1/4	7/8	15/64	9 7/16	1 3/16	0.125	8.000
8.5468	8.5347	8	8 5/16	1 3/8	1 9/16	1/4	1 1/16	3/8	10 1/4	1 1/4	0.125	8.719
											Capscrew size	
9.3337	9.3123	6	9 3/16	1 23/32	1/2	1/4	1 1/8	7/16	11 7/16	1 11/32	5/16-18 x 5/8	
10.0837	10.0707	6	9 15/16	1 25/32	1/2	1/4	1 3/16	7/16	12 3/16	1 13/32	5/16-18 x 5/8	
10.8957	10.8827	6	10 3/4	1 7/8	1/2	1/4	1 1/4	7/16	13	1 1/2	5/16-18 x 5/8	
11.6767	11.6637	6	11 1/2	1 15/16	1/2	1/4	1 3/8	7/16	14 3/16	1 9/16	3/8-16 x 3/4	
12.4537	12.4402	6	12 5/16	2 1/32	1/2	1/4	1 7/16	7/16	15	1 21/32	3/8-16 x 3/4	
13.203	13.187	5	13 1/16	2 5/32	1/2	1/4	1 1/2	7/16	15 3/4	1 25/32	3/8-16 x 3/4	
14.034	14.018	5	13 13/16	2 5/32	1/2	1/4	1 1/2	1/2	16 1/2	1 25/32	3/8-16 x 3/4	
14.821	14.805	5	14 5/8	2 9/32	1/2	1/4	1 1/2	1/2	17 3/4	1 29/32	1/2-13 x 7/8	
15.609	15.593	5	15 3/8	2 7/16	1/2	1/4	1 5/8	1/2	18 1/2	2 1/16	1/2-13 x 7/8	
16.396	16.380	5	16 3/16	2 7/16	1/2	1/4	1 5/8	1/2	19 5/16	2 1/16	1/2-13 x 7/8	
17.183	17.167	5	17	2 3/4	1/2	1/4	1 13/16	1/2	20 1/2	2 3/8	5/8-11 x 1	
17.971	17.955	5	17 3/4	2 3/4	1/2	1/4	1 13/16	1/2	21 1/4	2 3/8	5/8-11 x 1	
18.758	18.742	5	18 1/2	2 3/4	1/2	1/4	1 13/16	1/2	22 1/16	2 3/8	5/8-11 x 1 1/4	
19.546	19.530	5	19 1/4	3 9/64	1/2	1/4	1.812	1/2	22 13/16	2 11/16	5/8-11 x 1 1/4	
20.702	20.682	4	20 1/4	3 9/64	1/2	1/4	1.812	1/2	24 13/16	2 11/16	5/8-11 x 1 1/4	

Withdrawal sleeves, removal nuts

Bearing series 13 and 222



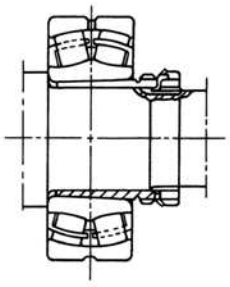


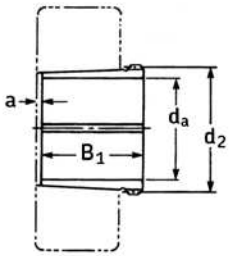


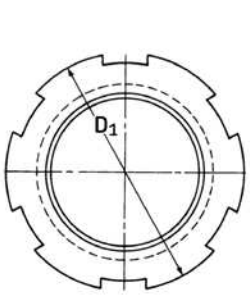
All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.

Bearing[4] size	Designations				Mass	Dimensions						
	Sleeve	Locknut	Lock-washer	Removal nut		d_a	B_1	a[5]	D_1	L	Mean thread pitch diameter d_2	Threads[3] per inch
–	–	–	–	–	lb	in	in	in	in	–	–	–
08	SK 8	N 07	W 07	N 09	0.16	1.377	1.181	0.098	$2\frac{17}{32}$	$\frac{7}{16}$	1.7277	18
09	SK 9	N 08	W 08	N 10	0.22	1.574	1.260	0.098	$2\frac{11}{16}$	$\frac{1}{2}$	1.9277	18
10	SK 10	N 09	W 09	RN 10	0.25	1.771	1.378	0.118	$3\frac{9}{32}$	$\frac{9}{16}$	2.1644	18
11	SK 11	N 10	W 10	RN 11	0.31	1.968	1.457	0.118	$3\frac{1}{2}$	$\frac{9}{16}$	2.3674	18
12	SK 12	N 11	W 11	RN 12	0.41	2.164	1.575	0.138	$3\frac{23}{32}$	$\frac{5}{8}$	2.5864	18
13	ASK 13	N 12	W 12	AN 15	0.50	2.361	1.654	0.138	$3\frac{7}{8}$	$\frac{19}{32}$	2.8752	12
14	ASK 14	N 12	W 12	AN 16	0.94	2.361	1.732	0.138	$4\frac{5}{32}$	$\frac{19}{32}$	3.0790	12
15[1]	SK 2215	N 13	W 13	AN 17	1.25	2.558	1.732	0.138	$4\frac{13}{32}$	$\frac{5}{8}$	3.2812	12
16[2]	SK 2216	N 14	W 14	AN 18	1.25	2.755	1.732	0.138	$4\frac{21}{32}$	$\frac{11}{16}$	3.4682	12
17	ASK 17	AN 15	W 15	AN 19	1.45	2.952	2.047	0.138	$4\frac{15}{16}$	$\frac{23}{32}$	3.6712	12
18	ASK 18	AN 16	W 16	AN 20	1.55	3.149	2.087	0.138	$5\frac{3}{16}$	$\frac{3}{4}$	3.8592	12
19	ASK 19	AN 17	W 17	AN 21	1.80	3.346	2.244	0.157	$5\frac{7}{16}$	$\frac{3}{4}$	4.0618	12
20	ASK 20	AN 18	W 18	AN 22	2.00	3.543	2.323	0.157	$5\frac{23}{32}$	$\frac{3}{4}$	4.2648	12
21	ASK 21	AN 19	W 19	ARN 21	2.30	3.740	2.441	0.157	6	$\frac{3}{4}$	4.4988	12
22	ASK 22	AN 20	W 20	ARN 22	2.45	3.937	2.559	0.157	$6\frac{25}{32}$	$\frac{3}{4}$	4.7178	12
24	ASK 24	AN 22	W 22	ARN 24	3.15	4.330	2.835	0.157	$7\frac{13}{32}$	$\frac{13}{16}$	5.1248	12
26	ASK 26	AN 22	W 22	ARN 26	5.00	4.527	3.071	0.157	$7\frac{25}{32}$	$\frac{7}{8}$	5.5618	12
28	SK 28	AN 24	W 24	RN 28	5.90	4.921	3.228	0.197	$8\frac{17}{32}$	$\frac{15}{16}$	6.0083	8
30	SK 30	AN 26	W 26	RN 30	6.80	5.315	3.465	0.197	$9\frac{5}{32}$	1	6.4143	8
32	SK 32	AN 28	W 28	RN 32	9.95	5.512	3.780	0.197	$9\frac{25}{32}$	1	6.8363	8
34	SK 34	AN 30	W 30	RN 34	11.50	5.906	4.095	0.197	$10\frac{13}{32}$	$1\frac{1}{16}$	7.2423	8
36	SK 36	AN 32	W 32	RN 36	12.50	6.299	4.095	0.197	$10\frac{29}{32}$	$1\frac{1}{16}$	7.6643	8
38	SK 38	AN 34	W 34	RN 38	14.50	6.693	4.409	0.197	$11\frac{7}{8}$	$1\frac{3}{16}$	8.1019	8
40	SK 40	AN 36	W 36	N 44	16.50	7.087	4.646	0.197	11	$1\frac{1}{4}$	8.5378	8
44	SK 44	AN 40	W 40	N 048	19.50	7.874	5.118	0.236	$11\frac{7}{16}$	$1\frac{11}{32}$	9.3245	6
48	SK 48	N 44	W 44	N 052	24.50	8.661	5.669	0.236	$12\frac{3}{16}$	$1\frac{13}{32}$	10.0742	6

1) For bearing 1315, use sleeve No. ASK 15 with length of 1.850.
2) For bearing 1316, use sleeve No. ASK 16 with length of 1.969.
3) Threads derived from the *Screw Threads Standards for Federal Services Handbook H-28* (1944) page 111, and H-28 (1957) Part 1, page 181, Class 3.
4) Last two figures of bearing designation.
5) Stickout before the sleeve is pressed into the bearing bore.







All mounting accessories are manufactured in accordance with ABMA standard 8.2 latest revision. For more information on threads please consult this standard.
For recommended bearing seat tolerances see page 359.

Bearing[2] **size**	**Designations**				**Mass**	**Dimensions**						
	Sleeve	Locknut	Lock-washer	Removal nut		d_a	B_1	a^3	D_1	L	Mean thread pitch diameter d_2	Threads[1] per inch
–	–	–	–	–	lb	in	in	in	in	–	–	–
08	SK 108	N 07	W 07	N 09	0.25	1.377	1.575	0.118	$2^{17}/_{32}$	$^{7}/_{16}$	1.7277	18
*09	SK 109	N 08	W 08	N 10	0.31	1.574	1.732	0.118	$2^{11}/_{16}$	$^{1}/_{2}$	1.9277	18
10	SK 110	N 09	W 09	RN 10	0.47	1.771	1.969	0.118	$3^{9}/_{32}$	$^{9}/_{16}$	2.1644	18
11	SK 111	N 10	W 10	RN 11	0.56	1.968	2.126	0.118	$3^{1}/_{2}$	$^{9}/_{16}$	2.3674	18
12	SK 112	N 11	W 11	RN 12	0.69	2.164	2.244	0.138	4	$^{5}/_{8}$	2.5864	18
13	ASK 113	N 12	W 12	AN 15	0.84	2.361	2.402	0.138	$3^{7}/_{8}$	$^{9}/_{32}$	2.8752	12
14	ASK 114	N 12	W 12	AN 16	1.55	2.361	2.559	0.138	$4^{1}/_{7}$	$^{19}/_{32}$	3.0790	12
15	ASK 115	N 13	W 13	AN 17	1.80	2.558	2.717	0.138	$4^{13}/_{32}$	$^{5}/_{8}$	3.2812	12
16	ASK 116	N 14	W 14	AN 18	2.00	2.755	2.835	0.138	$4^{21}/_{32}$	$^{11}/_{16}$	3.4682	12
17	ASK 117	AN 15	W 15	AN 19	2.25	2.952	2.953	0.138	$4^{15}/_{32}$	$^{23}/_{32}$	3.6712	12
18	ASK 118	AN 16	W 16	AN 20	2.55	3.149	3.150	0.138	$5^{3}/_{16}$	$^{3}/_{4}$	3.8592	12
19	ASK 119	AN 17	W 17	AN 21	2.95	3.346	3.346	0.157	$5^{7}/_{16}$	$^{3}/_{4}$	4.0618	12
20	ASK 120	AN 18	W 18	AN 22	3.40	3.543	3.543	0.157	$5^{23}/_{32}$	$^{25}/_{32}$	4.2648	12
21	ASK 121	AN 19	W 19	ARN 21	3.90	3.740	3.701	0.157	6	$^{3}/_{4}$	4.4988	12
22	ASK 122	AN 20	W 20	ARN 22	4.25	3.937	3.858	0.157	$6^{5}/_{7}$	$^{3}/_{4}$	4.7178	12
24	ASK 124	AN 22	W 22	ARN 24	5.00	4.330	4.134	0.157	$7^{13}/_{32}$	$^{13}/_{16}$	5.1248	8
26	ASK 126	AN 22	W 22	ARN 26	8.00	4.527	4.523	0.157	$7^{25}/_{32}$	$^{7}/_{8}$	5.5618	8
28	SK 128	AN 24	W 24	RN 28	9.50	4.921	4.921	0.197	$8^{17}/_{32}$	$^{5}/_{16}$	6.0083	8
30	SK 130	AN 26	W 26	RN 30	11.50	5.315	5.512	0.197	$9^{5}/_{32}$	1	6.8363	8
32	SK 132	AN 28	W 28	RN 32	15.50	5.512	5.512	0.236	$9^{25}/_{32}$	1	6.8363	8
34	SK 134	AN 30	W 30	RN 34	17.50	5.906	5.748	0.236	$10^{13}/_{32}$	$1^{1}/_{16}$	7.2423	8
36	SK 136	AN 32	W 32	RN 36	20.50	6.299	6.063	0.236	$10^{29}/_{32}$	$1^{1}/_{16}$	7.6643	8
38	SK 138	AN 34	W 34	RN 38	22.00	6.693	6.299	0.276	$11^{7}/_{16}$	$1^{3}/_{16}$	8.1019	8
40	SK 140	AN 36	W 36	N 44	25.50	7.087	6.693	0.276	11	$1^{1}/_{4}$	8.5378	8
44	SK 144	AN 40	W 40	N 48	29.50	7.874	7.126	0.315	$11^{7}/_{16}$	$1^{11}/_{32}$	9.3245	6
48	SK 148	N 44	W 44	N 052	34.00	8.661	7.441	0.315	$12^{3}/_{16}$	$1^{13}/_{32}$	10.0742	6

1) Threads derived from the *Screw Threads Standards for Federal Services Handbook H-28* (1944) page 111, and H-28 (1957) Part 1, page 181, Class 3.
2) Last two figures of bearing designation.
3) Stickout before the sleeve is pressed into the bearing bore.

Notes



Split pillow blocks
(metric series)

F SNL 522-619 NMSN

1 2 3 4

1. Prefix:

–	Two holes for attachment bolts
F	Four drilled holes for attachment bolts
S	No holes

2. Housing styles:

SNL	Housing of gray cast-iron
SNLD	Housing of ductile-iron
SE	Standard flummer block housing

3. Housing size:

205 to 218

505 to 532

4. Suffix:

NM	Drilled and tapped hole 1/8-27 NPSF at center of cap, one grease nipple supplied
V	Grease escape hole in base
VU	Cap drilled, tapped and plugged with two holes 1/8-27 NPSF; Base drilled diagonally opposite, tapped and plugged with two holes 1/8-27 NPSF; One grease fitting AH 1/8-27 PTF supplied with housing
T	Drilled and tapped hole 1/4-28 UNF at one side of cap, one grease nipple supplied
TD	Drilled and tapped hole 1/4-28 UNF at both sides of cap, two grease nipples supplied
SN	Drilled and tapped hole for sensor
K7	Bearing seating diameter tolerance K7
F	Fixed (large size blocks)
L	Loose (no stab ring – large size blocks)

Where two or more suffixes are used they are given in the same order as above

Introduction

Fewer bearing replacements and less maintenance

Plummer (pillow) block housings have much to offer

The main benefit of split plummer block housings is their easy installation; pre-assembled shafts can be mounted in them. When the housing bases are attached to the base plate it is then only necessary to place the housing caps in position and to tighten the attachment bolts to complete the installation.

Split plummer block housings available on the market are mainly intended for self-aligning ball bearings, spherical roller bearings and CARB® bearings of ISO dimension series 02, 03, 22, 23 and 32. They can often be fitted with various seals. Many designs and variants of split plummer block housings are available making the use of tailored housings unnecessary and thus enabling cost effective bearing arrangements to be made.

For many years SKF has been one of the leading producers of split plummer block housings – synonymous with operational reliability, quality and versatility.

SNL plummer (pillow) block housings have more to offer

SKF has developed the SNL plummer block housings to be the first choice for design, quality and economy. This enables customers to keep a step ahead.

SNL plummer block housings enable the full service life potential of the incorporated bearings to be exploited with less need of maintenance. This supports user efforts to further reduce maintenance costs. Among other characteristics the housings are very stiff, making them insensitive to uncontrolled and excessive tightening of the attachment bolts.

Another benefit is the choice of oil or grease lubrication for the bearings housed in SNL plummer blocks. A range of efficient seals for oil lubrication and rough environments make for trouble-free operation.

One basic design – many variants

SNL plummer block housings are primarily intended for self-aligning ball bearings, spherical roller bearings and CARB bearings. The housings are designed on a "building block" principle. This enables a more generous choice of bearing, shaft mounting, seals and type of lubrication. Stocking is also simplified.

A building block system

The basis of the SNL plummer block housing system consists of a number of housings of the same design but in different sizes. By combining these housings with the different standard seals a wide variety of housing variants, all belonging to the standard range, can be supplied to cover the majority of demands for plummer blocks for shafts having diameters of 20 to 160 mm, inclusive. The standard range also covers other variants, for example, housings with drilled and tapped holes for lubrication nipples or condition monitoring sensors. Housings are also available for bearings for larger shaft diameters (see page 504).

SNL plummer block housings are made of gray cast-iron and demonstrate high strength. Should, however, this strength be inadequate, dimensionally equivalent plummer block housings of ductile iron (spheroidal graphite cast-iron) can be supplied.

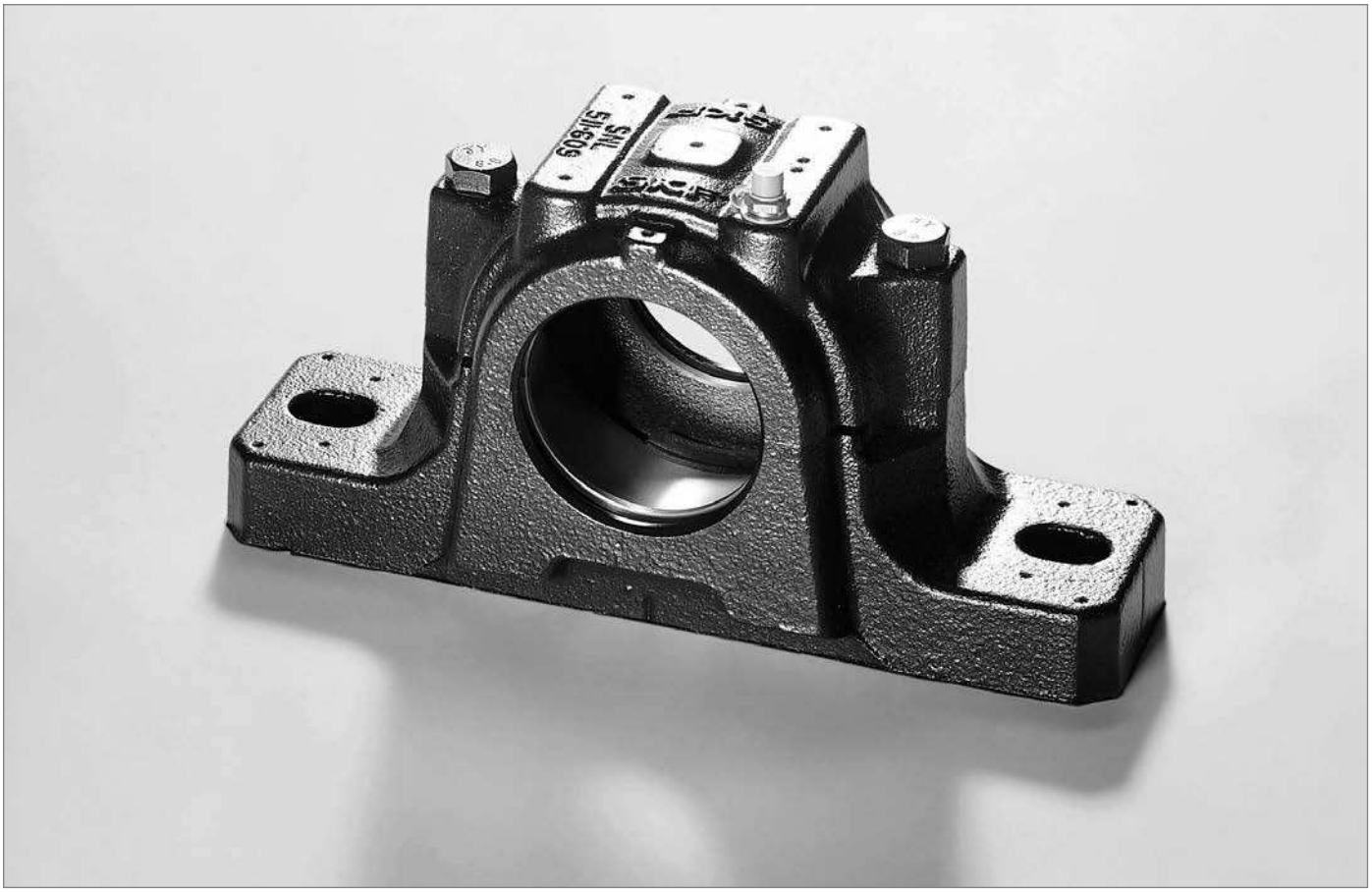
Several sealing options

An important advantage of the SNL plummer block housings is that they can be fitted with a variety of seals. The standard seals supplied by SKF comprise double-lip seals, V-ring seals, felt seals, labyrinth seals and heavy-duty "taconite" seals as well as end covers. Other standard seals are also available for SNL housings. The housings need modification to accommodate the seals. These are oil seals and heavy-duty axial taconite seals.

SNL plummer block housings are fully interchangeable with the earlier SNH housings. Their dimensions conform to ISO 113:1994.

Painting system

Resulting from customer surveys, SNL plummer block housings are painted as standard in accordance with ISO 12944-2, environmental Class C2. Black color: RAL 9005.

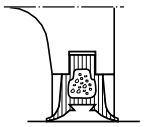


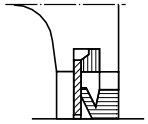
Seals

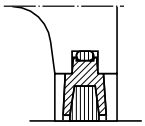
Standard seals

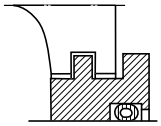
An important advantage of SNL plummer block housings is that they can be fitted with different types of seal. The standard seals available from SKF are split double-lip seals and felt seals, one-piece V-rings, labyrinth seals and the heavy-duty "taconite" seals. The seals are easy to install and are supplied separately.

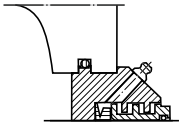
All the standard seals as well as the seals for use with oil lubrication are presented in Table 1 which gives a comprehensive overview of the seal types, their design features and their suitability for various operating conditions. Detailed information on the various standard and special seals, including properties and availability, will be found on pages 462 to 466.


TSN .. G


TSN .. A


TSN .. C


TSN .. S


TSN .. ND

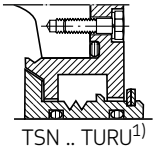
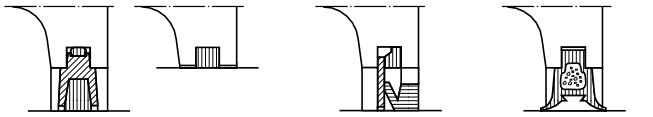

TSN .. TURU[1)]

Table 1

Seal selection	TSN..G	TSN..A	TSN..C	TSN..S	TSN..ND	TSN..TURU[1)]
Internal conditions						
Temperature	-40° to +212° F (-40° to +100° C)	-40° to +212° F (-40° to +100° C)	-40° to +212° F (-40° to +100° C)	-58° to +392° F (-50° to +200° C)	-40° to +212° F (-40° to +100° C)	-40° to +392° F (-40° to +200° C)
Peripheral speed	Up to 26 ft/sec (Up to 8 m/sec)	Up to 23 ft/sec (Up to 7 m/sec) Above 23 ft/sec [2)] (Above 7 m/sec [2)])	Up to 13 ft/sec (Up to 4 m/sec)	++ ++	Up to 39 ft/sec (Up to 12 m/sec)	++ ++
Misalignment, degrees	0.5 to 1	1 to 1.5	Up to 0.5	Up to 0.3	Up to 0.5	Up to 1
Relubrication grease	13 ft/sec [3)] (4 m/sec [3)])	++[4)]	-	+	+	
Oil lubrication	-	-	--	-	-	++
Low friction	+	++	-	++	+	++
Axial shaft displacement	++	-	++	+	+	-
Vertical mounting	+	++ [5)]	--	--	-	--
Replacement	++	-	+	-	-	-
External conditions						
Dust	++	+	+	+	++	-
Sand	++	+	-	+	++	+
Grit	+	-	-	+	++	+
Sharp objects, chipping splinters, etc.	+	--	+	++	++	++
Liquids when sprayed	+	+	-	--	++	-
Direct sunshine	+	--	++	++	++	++

Symbols: ++ very suitable + suitable - limited suitability -- unsuitable

[1)] Delivered as a complete unit only, i.e. housing with seals.
[2)] When V-ring axially supported.
[3)] When using housing with grease escape hole (suffix V).
[4)] If appropriate components are used: ASNA .. V.
[5)] When the V-ring of the lower seal is mounted inboard.



C design
felt seals

A design
V-ring seals

G design
double-lip seals

Table 2

Permissible shaft speeds for rubbing seals

Shaft diameter	Guideline values for the permissible shaft speed[1] for standard seals of design		
d_a, d_b	C[2]	A	G
mm	r/min		
20	3 820	6 680	7 640
25	3 060	5 350	6 110
30	2 550	4 460	5 090
35	2 180	3 820	4 360
40	1 910	3 340	3 820
45	1 700	2 970	3 390
50	1 530	2 670	3 060
55	1 390	2 430	2 780
60	1 270	2 230	2 550
65	1 180	2 060	2 350
70	1 090	1 910	2 180
75	1 020	1 780	2 040
80	960	1 670	1 910
85	900	1 570	1 800
90	850	1 490	1 700
95	800	1 410	1 610
100	760	1 340	1 530
110	690	1 220	1 390
115	660	1 160	1 330
120	640	1 110	1 270
125	610	1 070	1 220
130	590	1 030	1 180
135	570	990	1 130
140	550	960	1 090
145	530	920	1 050
150	510	890	1 020
155	490	860	990
160	480	840	960
165	460	810	930
170	450	790	900

The speeds are valid when the seals are operated at temperatures between -40° to +212° F (-40° to +100° C) (permissible temperature range). At temperatures outside this range and/or at speeds higher than those given, labyrinth seals should be used.

[1] The guideline values are based on the permissible sliding speed at the seal/counterface contact. However, the permissible shaft seal is determined by the speed rating for the bearing to be used in the housing.
[2] The guideline values are based on a peripheral speed of 13 ft/sec (4 m/sec). Higher speeds are possible, see under "Felt ring seals".

Seals

Double-lip seals

Double-lip seals (**Figure 1**) are made of polyurethane, a wear-resistant material which has good elastic properties. The seals are split so that they are easy to fit. They are intended for grease lubrication and can be used at peripheral speeds of up to 26 ft/sec (8 m/sec). The permissible angular misalignment is approximately 1° for shaft diameters up to approximately 100 mm and 0.5° for larger sizes. The seal counterface on the shaft should be ground and the surface roughness Ra should not exceed 126 µin (3.2 µm). The recommended shaft tolerance is h9. When using housings with grease escape hole (suffix V) the speed limit is 13 ft/sec (4 m/sec) due to increased pressure on the inner seal lip.

The axial movement of the shaft relative to the housing is not limited when double-lip seals are used.

The double-lip seals are always supplied in packs of two seals. When housings are used at shaft ends, i.e. with one end cover, one of the seals will be left over and can be kept as a spare. The double lip seals are identified by the designation prefix TSN followed by the size identification and the suffix G, e.g. TSN 511 G.

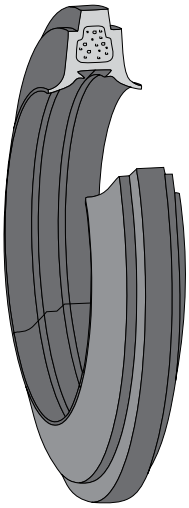
V-ring seals

The V-ring seals **(Figure 2)** consist of a V-ring and a sheet steel sealing washer with vulcanized rubber lip which fits into the sealing groove in the housing. The washer is protected against corrosion. The V-rings are made of synthetic rubber and have a slim sealing lip, which seals axially against the sealing washer. The V-ring "body", which sits tightly on the shaft and rotates with it, also serves as a flinger. V-ring seals provide efficient sealing even under difficult operating conditions such as high speeds, rough finished shafts etc. They can be operated at peripheral speeds in excess of 7 m/s if the V-ring is prevented from moving or lifting from the shaft by a support ring. Recommended dimensions for appropriate support rings (for axial and radial location) are given in **Table 3**.

The permissible angular misalignment for V-ring seals is approximately 1.5° for a 50 mm shaft decreasing to approximately 1° for a shaft diameter of 150 mm and above. The axial movement of the shaft relative to the housing is limited to ±1 mm for shaft diameters up to 65 mm and to approximately ±1.2 mm for larger shaft diameters.

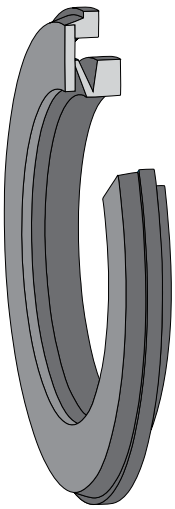
The V-ring seals are always supplied in packs of two seals. When housings are used at shaft ends, i.e. with one end cover, one of the seals will be left over and can be kept as a spare. The V-ring seals are identified by the designation prefix TSN followed by the size identification and the suffix A, e.g. TSN 511 A.

Figure 1



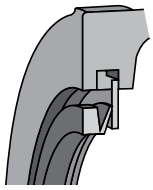
Double-lip seal

Figure 2

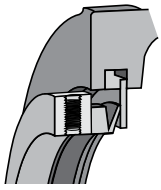


V-ring seal

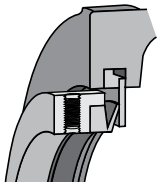
Location of V-ring



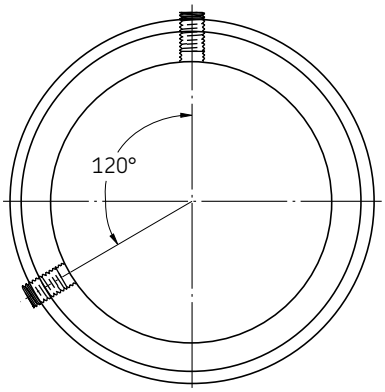
Peripheral speed 7 m/s

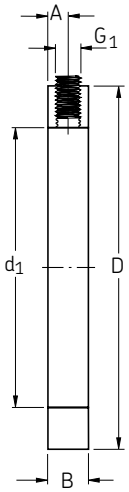


Peripheral speed 7 to 12 m/s

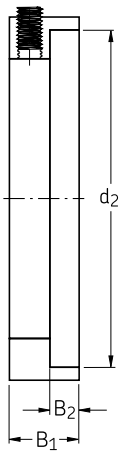


Peripheral speed above 7 m/s





7-12 m/s



>12 m/s

Table 3

Recommended dimensions for support rings for V-ring seals

Shaft diameter	Dimensions							Grub screw to	V-ring Designation	
d_a, d_b	d_1	d_2	B	B_1	B_2	D	A	G_1	DIN 913	
mm	mm								–	–
20	20	27.2	5	8.5	3.5	30	2.5	M3	3 x 5	CR 400200
25	25	32.1	5	8.5	3.5	35	2.5	M3	3 x 5	CR 400250
30	30	37.2	5	8.5	3.5	40	2.5	M3	3 x 5	CR 400300
35	35	42.2	5	8.5	3.5	45	2.5	M3	3 x 5	CR 400350
40	40	49.1	7	11.5	4.5	53	3.5	M4	4 x 5	CR 400400
45	45	54	7	11.5	4.5	58	3.5	M4	4 x 5	CR 400450
50	50	59.1	7	11.5	4.5	63	3.5	M4	4 x 5	CR 400500
55	55	64.1	7	11.5	4.5	68	3.5	M4	4 x 5	CR 400550
60	60	69.1	7	11.5	4.5	73	3.5	M4	4 x 5	CR 400600
65	65	74.1	7	11.5	4.5	78	3.5	M4	4 x 5	CR 400650
70	70	81	9	15	6	84	4.5	M5	5 x 6	CR 400700
75	75	86	9	15	6	89.5	4.5	M5	5 x 6	CR 400750
80	80	91	9	15	6	94.5	4.5	M5	5 x 6	CR 400800
85	85	96	9	15	6	100	4.5	M5	5 x 6	CR 400850
90	90	101	9	15	6	105	4.5	M5	5 x 6	CR 400900
95	95	106	9	15	6	109	4.5	M5	5 x 6	CR 400950
100	100	111	9	15	6	115	4.5	M5	5 x 6	CR 401000
110	110	122.9	10	7.5	7.5	128	5	M6	6 x 8	CR 401100
115	115	127.4	10	17.5	7.5	133	5	M6	6 x 8	CR 401100
125	125	138.1	10	17.5	7.5	143	5	M6	6 x 8	CR 401300
135	135	147.5	10	17.5	7.5	153	5	M6	6 x 8	CR 401300
140	140	152.9	10	17.5	7.5	158	5	M6	6 x 8	CR 401400
145	145	158.1	10	17.5	7.5	163	5	M6	6 x 8	CR 401500
155	155	167.5	10	18.5	8.5	173	5	M6	6 x 8	CR 401500
165	165	179.9	10	18.5	8.5	185.5	5	M6	6 x 8	CR 401700
175	175	189.3	10	18.5	8.5	195	5	M6	6 x 8	CR 401700

Seals

Felt ring seals

Felt ring seals **(Figure 3)** are simple but efficient seals for use with grease lubrication. They can be operated at peripheral speeds up to 13 ft/sec (4 m/sec). The seals can be used at much higher speeds but at high speeds a small gap will be formed between the felt and the shaft and the seal becomes a non-rubbing gap-type seal. For plummer block housings with bearings on adapter sleeves on cylindrical shafts the felt ring seals are split. The impregnated felt is inserted in light alloy half-rings. It is only necessary to insert the seals in the grooves in the housing. The rubber O-section cords should be put into the grooves first as they prevent the seal rings from turning.

SNL plummer block housings for bearings mounted on cylindrical seatings on stepped shafts, sizes 205 to 218 inclusive, can also be supplied with felt seals. In this case the seals consist of loose felt strips, which can be inserted in the sealing grooves. Before mounting, the FS felt strips should be left to soak for a few minutes in hot oil.

For applications with spherical roller bearings or CARB bearings, which are to operate at continuously high temperatures up to approximately 482° F (+250° C), SKF graphited FSB sealing strips, made of aluminum boron silicate, can be used. They are suitable for peripheral speeds up to 6.5 ft/sec (2 m/sec). The strips have been well proven as seals on autoclave trucks.

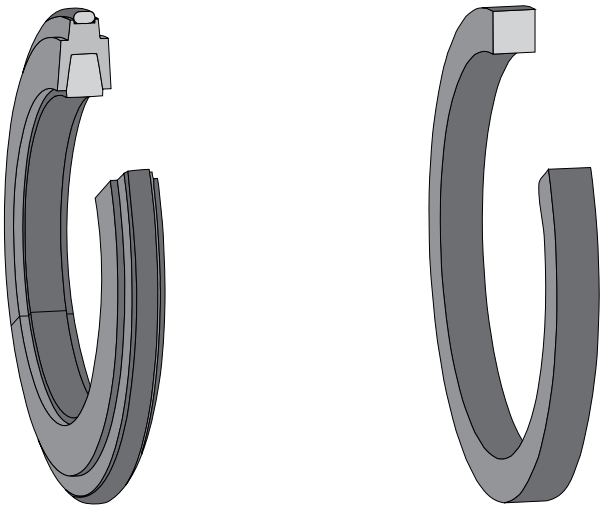
The permissible angular misalignment is approximately 0.5°. The seal counterface on the shaft should be ground and the surface roughness Ra should not exceed 126 µin (3.2 µm).

The axial movement of the shaft relative to the housing is not limited when felt seals are used.

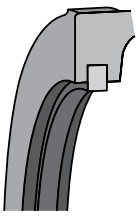
The ready-to-mount felt ring seals (in light alloy half-rings) are always supplied in packs of two seals. When housings are used at shaft ends, i.e. with one end cover, one of the seals will be left over and can be kept as a spare. The felt ring seals are identified by the designation prefix TSN followed by the size identification and the suffix C, e.g. TSN 511 C.

The felt ring seals can also be supplied with an FSB insert. The rubber O-section cords are replaced by fluoro rubber O-section cords. These seals are identified by the suffix CB, e.g. TSN 511 CB.

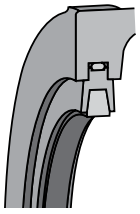
Figure 3



Felt ring seal



Ready-to-mount felt ring seal



Felt strips

Labyrinth seals

Under difficult operating conditions and/or at high speeds the use of labyrinth seals **(Figure 4)** is recommended. The labyrinth rings are made of steel and have two radially arranged labyrinth steps, which form a narrow sealing gap with the housing grooves.

Hollow O-ring cords of silicone rubber (supplied with the seals) allows the labyrinth rings, which are mounted with a loose fit, to rotate with the shaft. Angular misalignments of the shaft up to approximately 0.3° are permissible. The operating temperature range for the labyrinth seals is -58° to +392° F (-50° to +200° C).

When labyrinth seals are used, axial movement of the shaft relative to the housing is not limited. The recommended shaft tolerance is h9.

The labyrinth seals are supplied singly. For bearing arrangements for through shafts it is therefore necessary to order two rings. The labyrinth seal is identified by the prefix TSN followed by the size identification and the suffix S, e.g. TSN 511 S.

Taconite heavy-duty seals

Taconite is a very fine-grained mineral which is extremely difficult to seal out. For bearing arrangements, which must operate under very arduous conditions (such as those encountered in mining), labyrinth seals, which can be relubricated, are recommended; grease enhances the sealing effect and extends the serviceability of the seals. SKF has developed two different designs of these heavy-duty seals (which can seal out taconite, hence the name) which can be supplied for use with SNL housings.

The one taconite seal design **(Figure 5)** is based on a radial labyrinth seal and fits the standard housings. A V-ring seal mounted on the shaft seals against the non-rotating part of the seal, which is inserted in the seal groove and prevents contaminants from penetrating the bearing when the seal is relubricated. This grease is supplied via a grease nipple in the non-rotating part of the seal. Angular misalignments of the shaft of up to approximately 0.5° are possible. The permissible operating temperature range for the seal is between -40° to +212° F (-40° and +100° C).

The axial movement of the shaft relative to the housing is limited for this type of taconite seal to ±1 mm for shaft diameters up to 65 mm and to approximately ±1.2 mm for sizes up to 100 mm and ±1.5 mm for larger shaft diameters. The recommended shaft tolerance is h9.

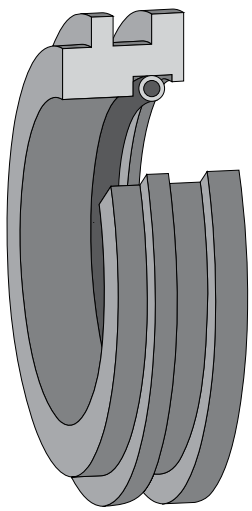
These seals are supplied singly so that for housings used on through shafts, it is necessary to order two seals. The seal is identified by the prefix TSN followed by the size identification and the suffix ND, e.g. TSN 511 ND.

The other design of taconite seal **(Figure 6)** is based on a labyrinth seal with the labyrinth stages arranged axially and does not fit the standard housings. The seal is relubricated via lubrication holes and nipples in the housing cap. The positions for the holes are marked by dimples in the casting. The permissible misalignment of the shaft relative to the housing for this seal is approximately 0.5°. The operating temperature range is from -40° to +482° F (-40° to +250° C). Axial movement of the shaft relative to the housing is also limited. The recommended shaft tolerance is h9.

The modified SNL housings are always supplied together with the seals and are available from size 515-612. The housings with seals are identified by the designation suffix TNC, e.g. SNL 515 TNC or SNL 612 TNC. A housing intended for a shaft end with one seal and one end cover is identified by an additional suffix A, e.g. SNL 515 ATNC. The seal itself is designated TSN .. NC.

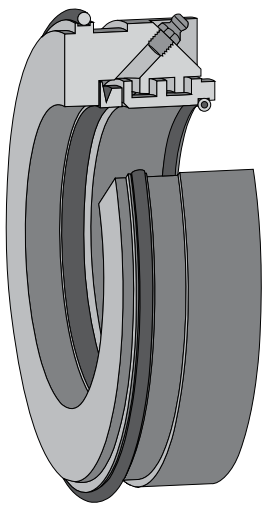
A variant of the TNC seal with an additional V-ring can also be supplied. The seal is identified by the letters TNB and can be supplied to order.

Figure 4



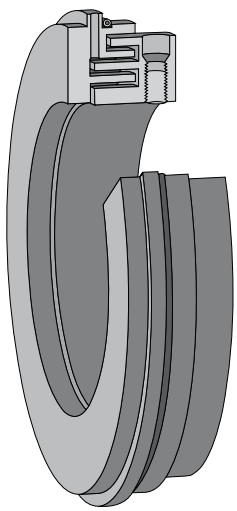
Labyrinth seal

Figure 5



Taconite heavy-duty seal

Figure 6



Taconite heavy-duty seal

Seals for oil lubrication

Special seals (oil seals) are required to prevent oil from escaping from the housing when oil lubrication is applied. For SNL housings, SKF has developed the non-rubbing seal of the U design **(Figure 7)**. These U seals also require modified housings and comprise two parts: one that is stationary and is screwed to the housing and the other that is mounted on the shaft and rotates. A hollow O-ring cord of silicone rubber inserted between the labyrinth ring and the shaft allows the ring, which is mounted with a loose fit, to rotate with the shaft, and oil cannot escape along the shaft. These oil seals do not limit axial movement of the shaft relative to the housing. The recommended shaft tolerance is h9.

The modified SNL housing is supplied together with the seals as a unit. The housings with seals are identified by the suffix TURU, e.g. SNL 524 TURU. Special end covers can be supplied separately on request, designation ASNH .. R.

Special seals

Applications where, for some reason, the standard seals cannot be used, **must** be fitted with special seals. The SNL housings can be supplied without seals for such applications and are relatively easy to equip with special seals. It is recommended that housings of series SNL 2 are used rather than those of series SNL 5-6 as they have a comparatively larger bore at the shaft entrance. There is therefore more room to accommodate a seal, so that there are more choices for seal design.

Special seals are not normally supplied by SKF. Therefore, the relevant housing dimensions are given in **Table 4**.

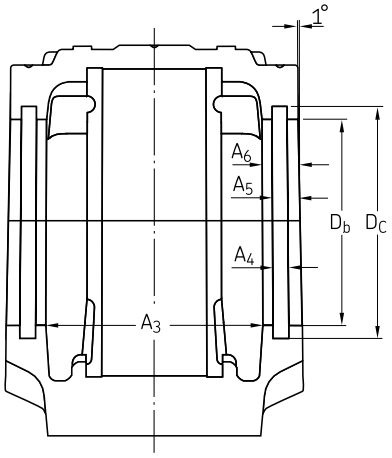
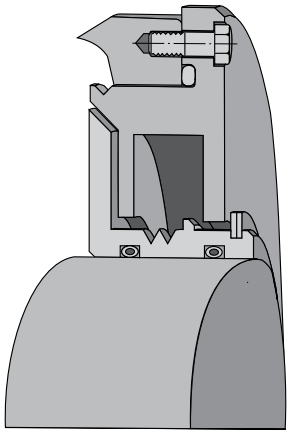


Table 4

Sealing groove dimensions

Housing Size	Dimensions A_3	A_4	A_5	A_6	D_b	D_c
–	mm					
SNL 205	44	5	7.5	10	36.5	44.5
SNL 206-305	54	5	7.5	10	46.5	54.5
SNL 207	58	5	8	11	56.5	64.5
SNL 208-307	61	5	8	11	62	70.5
SNL 209	59	5	9	12	67	75.5
SNL 210	64	5	9	12	72	80.5
SNL 211	69	5	9	12	77	85.5
SNL 212	79	5	9	12	87	95.5
SNL 213	82	5	9	13	92.5	101
SNL 215	87	5	9	13	102.5	111
SNL 216	92	5	9	13	108	116.5
SNL 217	97	5	9	13	112	120.5
SNL 218	112	5	9	13	120	128.5
SNL 505	45	5	7.5	10	31.5	39.5
SNL 506-605	55	5	7.5	10	36.5	44.5
SNL 507-606	59	5	8	11	46.5	54.5
SNL 508-607	62	5	8	11	51.5	59.5
SNL 509	60	5	9	12	56.5	64.5
SNL 510-608	65	5	9	12	62	70.5
SNL 511-609	70	5	9	12	67	75.5
SNL 512-610	80	5	9	12	72	80.5
SNL 513-611	83	5	9	13	77	85.5
SNL 515-612	88	5	9	13	87	95.5
SNL 516-613	93	5	9	13	92.5	101
SNL 517	98	5	9	13	97.5	106
SNL 518-615	113	5	9	13	102.5	111
SNL 519-616	116	6	10	14	131	141
SNL 520-617	131	6	10	14	137.5	147.5
SNL 522-619	143	6	10	14	147.5	157.5
SNL 524-620	151	6	11	15	157.5	167.5
SNL 526	156	6	11	15	167.5	177.5
SNL 528	171	6	11	15	177.5	187.5
SNL 530	189	6	11	15	192.5	202.5
SNL 532	201	6	11	15	202.5	212.5

Figure 7



Oil seal

End covers

For housings mounted at the ends of shafts, the one opening should be fitted with an end cover, which fits into the seal groove **(Figure 8)**. Details of the permissible length of the shaft end can be found in **Table 5**. The end covers are of plastic and are suitable for operating temperatures in the range -40° to +230° F (-40° to +110° C).

At higher temperatures sheet steel end covers should be used instead. These can be cut out from steel sheets and should be inserted with a hollow O-ring cord of silicone rubber in the seal groove in the housing. The relevant seal groove dimensions are given in **Table 4**.

The standard end cover of plastic is designated by the prefix ASNH followed by the housing size identification, e.g. ASNH 511-609.

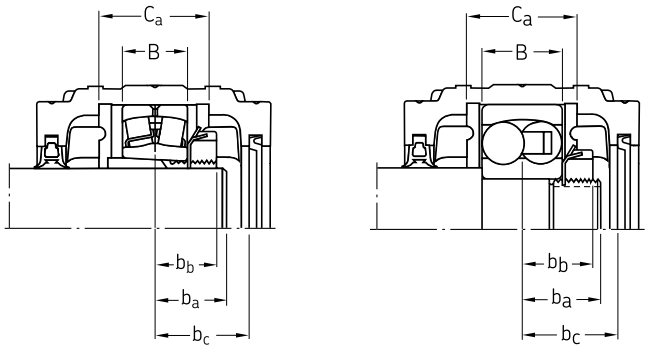


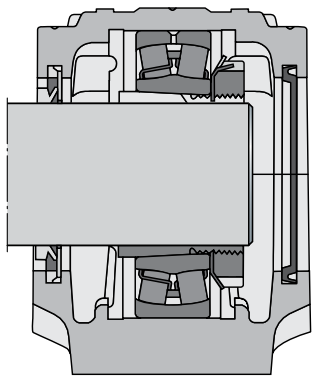
Table 5

Permissible length of shaft end

Housing Size	Dimensions			Widest bearing to fit housing Designation	Dimensions	
	b_a [1]	b_c	C_a		B	b_b
–	mm			–	mm	
SNL 205	18	24	25	**22205 CC/W33**	18	17
SNL 206-305	20	29	32	**22206 CC/W33**	20	18
SNL 207	23	32	34	**22207 CC/W33**	23	20.5
SNL 208-307	26 (22)	33	39	**22208 E**	23	21.5
SNL 209	25	32	30	**22209 CC/W33**	23	22.5
SNL 210	28 (24)	35	41	**22210 CC/W33**	23	23.5
SNL 211	30 (25)	37	44	**22211 E**	25	25
SNL 212	33 (26)	42	48	**22212 E**	28	27
SNL 213	35 (30)	45	51	**22213 CC/W33**	31	29.5
SNL 215	37 (30)	47	56	**22215 E**	31	30.5
SNL 216	39 (33)	50	58	**22216 E**	33	33.5
SNL 217	40 (35)	52	61	**22217 E**	36	36
SNL 218	45 (35)	60	65	**23218 CC/W33**	52.4	44.2
SNL 505	18	24	25	**22205 CCK/W33**	18	17
SNL 506-605	20	29	32	**2305 EK**	24	19
SNL 507-606	23	32	34	**2306 K**	27	21.5
SNL 508-607	26 (22)	33	39	**2307 EK**	31	24.5
SNL 509	25	32	30	**22209 CCK/W33**	23	22.5
SNL 510-608	28 (24)	35	41	**22308 CCK/W33**	33	26.5
SNL 511-609	30 (25)	37	44	**22309 CCK/W33**	36	29
SNL 512-610	33 (26)	42	48	**22310 EK**	40	32
SNL 513-611	35 (30)	45	51	**22311 EK**	43	33.5
SNL 515-612	37 (30)	47	56	**22312 EK**	46	36
SNL 516-613	39 (33)	50	58	**22313 EK**	48	38
SNL 517	40 (35)	52	61	**22217 EK**	36	36
SNL 518-615	45 (35)	60	65	**22315 EK**	55	42.5
SNL 519-616	47 (40)	61	68	**22316 EK**	58	46
SNL 520-617	51 (45)	69	70	**23220 CCK/W33**	60.3	50.2
SNL 522-619	61	75	80	**23222 CCK/W33**	69.8	55.9
SNL 524-620	65	79	86	**23224 CCK/W33**	76	60
SNL 526	65	81	90	**23226 CCK/W33**	80	63
SNL 528	70	89	98	**23228 CCK/W33**	88	68
SNL 530	80	98	106	**23230 CCK/W33**	96	74
SNL 532	85	104	114	**23232 CCK/W33**	104	80

[1] The dimension b_a is determined to suit all appropriate bearings with two exceptions:
1. With self-aligning ball bearings of series 12 where the total bearing seating width must be available, the values given in brackets apply.
2. For non-locating arrangements with the widest bearings, as listed above, which are not mounted centrally in the housing, the value of b_a must be either correspondingly reduced or correspondingly increased.

Figure 8



Housing with end cover

Locating rings

Locating rings

The bearing seating in the housing is sufficiently wide to enable the bearing to be displaced axially. The locating or held bearing must always be fixed axially in position in the housing bore by locating rings at both sides (**Figure 9**).

CARB bearings are non-locating bearings and cannot take axial loads. Since axial displacement is accommodated within a CARB bearing (together with any misalignment), it is necessary to locate the outer ring axially in its seating by inserting a locating ring at each side of the bearing.

The locating rings are identified by the prefix FRB followed by figures giving the width/outside diameter in millimeters, e.g. FRB 11.5/100.

Axial displacement of CARB bearings in SNL housings

The permissible axial displacement in a CARB bearing is dependent on the clearance remaining in the bearing after mounting: the larger the residual radial internal clearance, the larger the permissible axial displacement of one ring with respect to the other. This axial displacement reduces the clearance in the bearing until at a given displacement, the clearance disappears altogether or the rollers may start to be exposed at one side of the bearing.

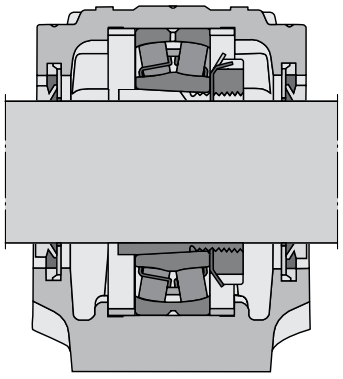
Table 6 shows the maximum permissible axial displacement for each CARB bearing having Normal initial radial internal clearance when mounted normally. It is assumed that there is little difference in temperature between inner and outer ring.

When the rings are displaced a certain distance, the roller and cage assembly will move through half this distance. If the inner ring moves into the bearing, or alternatively, if the outer ring moves out from the bearing, the roller and cage assembly can contact the lock nut and locking washer. For bearings of series C 22 K up to and including size 22, therefore, a special adapter sleeve with a narrow slot and a self-locking KMFE nut must be used to prevent this from happening (**Figure 10**). Such sleeves are supplied by SKF and identified by suffix E, e.g. H 311 E.

For bearings of series C 22 K and C 32 K, from size 24 and above, the adapter sleeves are supplied together with a KML nut, indicated by suffix L in the sleeve designation, e.g. H 2324 L.

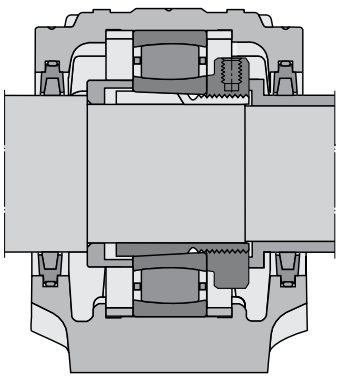
It should be observed that the possible axial displacement of the shaft relative to the housing may be limited by the type of seal used.

Figure 9



Housing with locating rings at both sides of bearing

Figure 10



CARB bearing on adapter sleeve with spacer ring between bearing inner ring and lock nut

Axial displacement

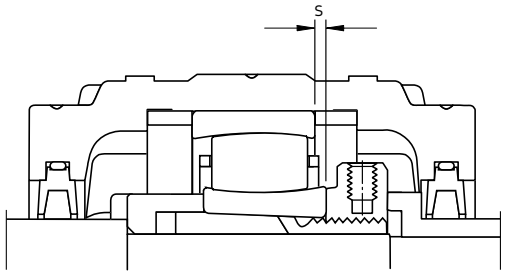


Table 6

Axial displacement for mounted CARB bearings

Bearing	Housing Size	Axial displacement s[1] for mounted CARB bearings with initial radial internal clearance Normal
–	–	mm
C 2205 K	**SNL 505**	2.3
C 2206 K	**SNL 506-605**	2.3
C 2207 K	**SNL 507-606**	2.8
C 2208 K	**SNL 508-607**	2.7
C 2209 K	**SNL 509**	3.1
C 2210 K	**SNL 510-508**	2.9
C 2211 K	**SNL 511-609**	3.5
C 2212 K	**SNL 512-610**	3.6
C 2213 K	**SNL 513-611**	3.7
C 2215 K	**SNL 515-612**	4.4
C 2315 K	**SNL 518-615**	5.9
C 2216 K	**SNL 516-613**	4.4
C 2316 K	**SNL 519-616**	5.7
C 2217 K	**SNL 517**	5.1
C 2317 K	**SNL 520-617**	6.5
C 2218 K	**SNL 518-615**	5.2
C 2220 K	**SNL 520-617**	5.4
C 2320 K	**SNL 524-620**	6.8
C 2222 K	**SNL 522-619**	6.7
C 3224 K	**SNL 524**	7.8
C 2226 K	**SNL 526**	8.0
C 2228 K	**SNL 528**	8.0
C 2230 K	**SNL 530**	9.3
C 3232 K	**SNL 532**	10.5

[1] s is the maximum permissible displacement of one ring with respect to the other in one direction; the total axial displacement is twice as large.

Lubrication

SNL plummer block housings are designed so that the bearings can be lubricated with grease or oil, although grease lubrication is generally preferable. The lubricant should be selected with reference to the operating conditions.

Grease lubrication

In the majority of applications, the amount of grease applied to the SNL housings when mounting (initial fill) or after an inspection is adequate until the next planned inspection.

Certain operating conditions, e.g. high speeds, high temperatures or heavy loads, may mean that more frequent relubrication is necessary. **Table 7** gives guideline values for the grease quantities to be applied for the initial fill and for relubrication. Seven markings will be found on the housing cap of which six show where holes can be drilled and tapped to take grease nipples.

There is also a drilled and tapped hole for the grease nipple AH 1/8-27 PTF, which is supplied with the housing. This hole is closed by a plastic plug. The two markings at the outer sides of the central ridge indicate the position for lubrication holes for the seals.

It is recommended that spherical roller bearings having a lubrication groove and three holes in the outer ring (designation suffix E or W33) be lubricated via this feature **(Figure 11)**. A hole should be drilled at one of the middle markings on the three bars for this purpose. SNL housings having a drilled and tapped hole in the middle of the cap together with a lubrication nipple and can be supplied on request. They are identified by the designation suffix NM, e.g. SNL 511-609 NM.

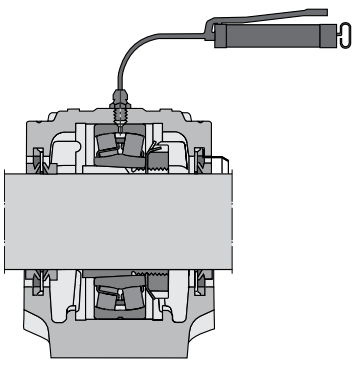
Table 7

Grease quantities

Housing Size	Grease quantities First fill[1]	 Relubrication
–	g	
SNL 205	25	5
SNL 206-305	40	5
SNL 207	50	10
SNL 208-307	60	10
SNL 209	65	10
SNL 210	75	10
SNL 211	100	15
SNL 212	150	15
SNL 213	180	20
SNL 215	230	20
SNL 216	280	25
SNL 217	330	25
SNL 218	430	40
SNL 505	25	5
SNL 506-605	40	5
SNL 507-606	50	10
SNL 508-607	60	10
SNL 509	65	10
SNL 510-608	75	10
SNL 511-609	100	15
SNL 512-610	150	15
SNL 513-611	180	20
SNL 515-612	230	20
SNL 516-613	280	25
SNL 517	330	25
SNL 518-615	430	40
SNL 519-616	480	50
SNL 520-617	630	55
SNL 522-619	850	70
SNL 524-620	1 000	80
SNL 526	1 100	95
SNL 528	1 400	110
SNL 530	1 700	130
SNL 532	2 000	150

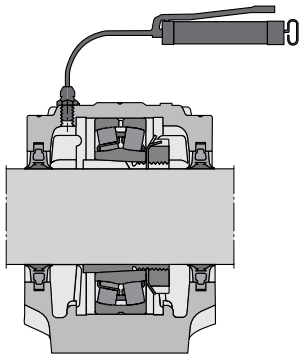
1 Fills approximately 40% of the free space in the housing.

Figure 11



Lubricating the bearing via the outer ring

Figure 12



Bearing lubrication via the standard nipple

It should be noted that when spherical roller bearings are to be relubricated via the outer ring, they should be rotated. If outer ring relubrication is not possible or if self-aligning ball bearings or CARB bearings are used, the standard grease nipple supplied with the housing should be inserted in the hole provided and used for this purpose **(Figure 12)**. If it is desired to use a grease nipple other than that supplied with the housing, adapters are available which make a reworking of the available drilled and tapped hole unnecessary.

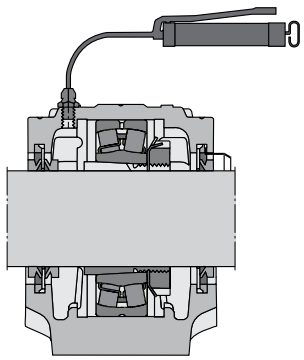
Where V-ring seals are used, the effectiveness of relubrication can be much improved if an additional V-ring is mounted inside the housing at the side where the grease is applied, so that grease can only exit at the opposite side of the housing. For this purpose a set comprising a V-ring and a splash plate, which covers a sector of more than 180° **(Figure 13)**, can be supplied. This V-ring and splash plate set is designated by the prefix ASNA followed by the housing size identification and the suffix V, e.g. ASNA 511 V.

Where the bearings are mounted on adapter sleeves, the grease should be introduced at the side opposite to the lock nut of the sleeve. Where housings are mounted at shaft ends, grease should be applied at the end cover side.

Where G- or C-design seals are used, it should be noted that grease cannot escape via the seals. If frequent relubrication is required when such seals are used, it is advisable to provide the housing with a grease escape hole **(Figure 14)** through which excess grease can escape. Recommended dimensions will be found in **Table 8**. SNL housings with a grease escape hole in the base can be supplied. This housing design is identified by the suffix V, e.g. SNL 511-609 V.

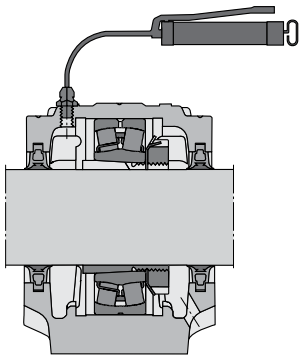
If housings fitted with the G-design double-lip seals are periodically relubricated, the seals can only be operated at peripheral speeds up to 13 ft/sec (4 m/sec) as otherwise the sealing lips may overheat and wear.

Figure 13



Housing with additional V-ring and splash plate

Figure 14



Housing with grease escape hole

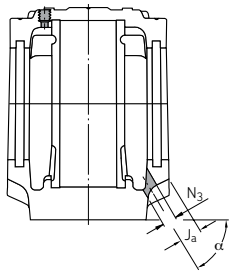


Table 8

Recommended dimensions for grease escape hole

Housing Size	Dimensions J_a	N_3	a
–	mm		degrees
SNL 205	8.5	10	45
SNL 206-305	10	10	45
SNL 207	10	10	45
SNL 208-307	9	10	45
SNL 209	10	10	45
SNL 210	11	10	45
SNL 211	10	12	45
SNL 212	9	12	45
SNL 213	13	12	45
SNL 215	12.5	12	45
SNL 216	14	16	45
SNL 217	17	16	45
SNL 218	20	16	40
SNL 505	8.5	10	45
SNL 506-605	10	10	45
SNL 507-606	10	10	45
SNL 508-607	9	10	45
SNL 509	10	10	45
SNL 510-608	11	10	45
SNL 511-609	10	12	45
SNL 512-610	9	12	45
SNL 513-611	13	12	45
SNL 515-612	12.5	12	45
SNL 516-613	14	16	45
SNL 517	17	16	45
SNL 518-615	20	16	40
SNL 519-616	20	16	50
SNL 520-617	21	16	50
SNL 522-619	21	20	50
SNL 524-620	24	20	55
SNL 526	22	20	55
SNL 528	23	20	50
SNL 530	25	20	55
SNL 532	25	20	60

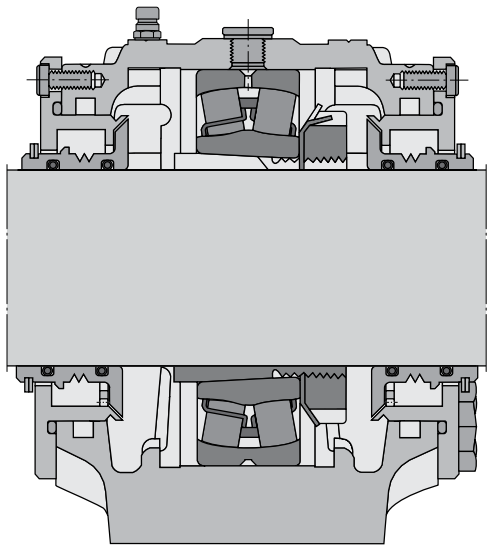
The dimensions are those recommended when the standard grease nipple AH 1/8-27 PTF is used (supplied with the housing) but can also be applied if nipples having threads R 1/8, KR 1/8 or M 10x1 are used. An adapter is available, which fits the SNL standard lubrication hole, designation LAPN 1/8. Using this adapter nipple with thread G 1/4 and grease dispensers, e.g. SKF SYSTEM 24, can be applied.

Lubrication

Oil lubrication

The new SNL housings can be used for oil lubrication at relatively high speeds. When using oil, however, the specially developed U-design seals should be incorporated to avoid oil loss from the housing. These seals are described on page 466. In order for these seals to be used, the housing must be modified so that SNL housings for oil lubrication are only supplied complete with seals.

Figure 15



Housing for oil lubrication

Table 1

Recommended oil levels for SNL..TURU plummer blocks of series 5(00)
For series 3(00) and 6(00) please contact SKF Applications Engineering

Housing Designation	Oil level for bearings of series 12		22		232		222		C 22	
	min	max	min	max	min	max	min	max	min	max
–	mm									
SNL 511 TURU	27	31	27	32			27	31	28	32
SNL 512 TURU	23	27	22	28			23	27	23	26
SNL 513 TURU	29	33	28	34			28	33	29	34
SNL 515 TURU	24	29	23	29			23	28	24	29
SNL 516 TURU	34	39	33	40			33	39	34	39
SNL 517 TURU	30	36	30	36			29	35	30	36
SNL 518 TURU	31	38	31	38	33	37	30	37	30	36
SNL 519 TURU	38	45	38	46			38	45		
SNL 520 TURU	34	42	34	42	37	42	33	41	35	43
SNL 522 TURU	39	47	38	48	42	47	37	46	39	48
SNL 524 TURU	47	57			50	55	46	55		
SNL 526 TURU					54	59	50	59	52	62
SNL 528 TURU					46	52	44	52	40	51
SNL 530 TURU					48	54	45	54	44	57
SNL 532 TURU					50	57	47	57		

The oil level is measured from the base of the housing. Mark the min and max level on the sight glass.

Mounting

SNL housings together with SKF bearings are robust and operationally reliable bearing arrangements which have long lives. However, if they are to achieve their full potential and not fail prematurely, they must be properly mounted. **Incorrect procedures or unsuitable tools can influence life negatively.**

Mounting the bearing

The bearings can be mounted either on a tapered seating – normally for SNL housings in the form of an adapter sleeve – or on a cylindrical seating. When a bearing is correctly mounted on a sleeve, there will be interference fits between the inner ring, sleeve and shaft. The degree of interference is determined by how far the bearing is driven up on the sleeve and either the internal clearance reduction or the axial drive-up distance can be used as a measure. The clearance reduction in spherical roller bearings can be measured using a feeler gauge, or the new SKF drive-up method can be used.

When mounting self-aligning ball bearings having Normal radial internal clearance (which is relatively small) the clearance reduction can be checked by turning and swivelling out the outer ring. When the swivelling out meets a slight resistance, the bearing has a sufficient degree of interference and the drive-up should be stopped. A particularly simple method of mounting self-aligning ball bearings on adapter sleeves is the use of the spanner set TMHN 7, which has been specially developed for this purpose. Each spanner is marked with the angle to which the lock nut should be turned when self-aligning ball bearings having C3 radial internal clearance are used.

CARB bearings can also be mounted on cylindrical as well as tapered seatings. For tapered seatings, adapter sleeves are normally employed; the spanner set TMHN 7 can be used for smaller CARB bearings as well as for self-aligning ball bearings. For larger CARB bearings either the clearance reduction or the axial drive-up length should be measured. When using a feeler gauge to measure clearance reduction, it is important that the inner and outer rings of the bearing are not displaced with respect to each other. The new SKF drive-up method can also be applied.

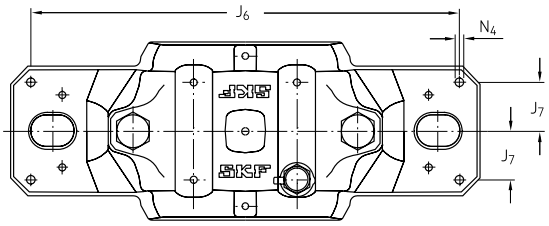


Table 10

Position and size of dowel holes

Housing Size	Dimensions J_6	J_7	N_4 max	Housing Size	Dimensions J_6	J_7	N_4 max
–	mm			–	mm		
SNL 205	152	16	5	**SNL 511-609**	234	27	8
SNL 206-305	172	19	5	**SNL 512-610**	234	27	8
SNL 207	172	19	5	**SNL 513-611**	252	29	8
SNL 208-307	188	22	6	**SNL 515-612**	257	29	8
SNL 209	188	22	6	**SNL 516-613**	288	33	8
SNL 210	188	22	6	**SNL 517**	292	33	8
SNL 211	234	27	8	**SNL 518-615**	317	35	8
SNL 212	234	27	8	**SNL 519-616**	317	35	8
SNL 213	252	29	8	**SNL 520-617**	348	39	8
SNL 215	257	29	8	**SNL 522-619**	378	44	8
SNL 216	288	33	8	**SNL 524-620**	378	44	8
SNL 217	292	33	8	**SNL 526**	414	46	12
SNL 218	317	35	8				
SNL 505	152	16	5	**SNL 528**	458	54	12
SNL 506-605	172	19	5	**SNL 530**	486	58	12
SNL 507-606	172	19	5	**SNL 532**	506	58	12
SNL 508-607	188	22	6				
SNL 509	188	22	6				
SNL 510-608	188	22	6				

Bearings with cylindrical bore are normally mounted with an interference fit on the shaft. Appropriate shaft tolerances should be selected. The recommendations applying to self-aligning ball and spherical roller bearings also apply to CARB bearings.

Support surface for housing base

To guarantee long bearing service life it is recommended that the support surface for the housing is finished to Ra ≤ 492 µin (12.5 µm). The flatness tolerance should be to IT7. For moderate demands IT8 may be satisfactory.

Dowel pins

SNL housings are designed for loads acting vertically to the housing base support. If they are to be subjected to moderate or heavy loads acting parallel to the base support, a stop should be provided, or the housing should be pinned to its support. Recommendations for the position and size of holes to take dowel pins are given in **Table 10**.

Mounting

Housings with four bolt holes in base

For the attachment of SNL housings to T-shaped beams, it is possible to drill four bolt holes in the base. The appropriate positions are indicated by dimples. Recommended dimensions are given in **Table 11**.

Some housings which are already prepared for four-bolt mounting can be supplied. These housings are also prepared for relubrication of the bearing via the outer ring (suffix NM) as standard. Available sizes are shown in **Table 12**. The housings are designated FSNL .. NM, e.g. FSNL 511-609 NM.

Attachment bolts

It is recommended that hexagon-headed bolts to strength class 8.8 according to ISO 4014:1999 be used. If the load does not act vertically to the base, it may be necessary to use stronger, class 10.9 bolts. Details of the appropriate tightening torques for the bolts to class 8.8 are given in **Table 14** on page 477.

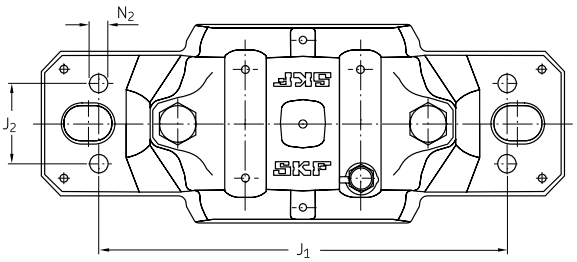


Table 11

Bolt hole dimensions

Housing Size	Dimensions J_1	J_2	N_2	Appropriate bolt size
–	mm			mm
SNL 208-307	160	34	11	M 10
SNL 209	160	34	11	M 10
SNL 210	160	34	11	M 10
SNL 211	200	40	14	M 12
SNL 212	200	40	14	M 12
SNL 213	220	48	14	M 12
SNL 215	220	48	14	M 12
SNL 216	252	52	18	M 16
SNL 217	252	52	18	M 16
SNL 218	280	58	18	M 16
SNL 508-607	160	34	11	M 10
SNL 509	160	34	11	M 10
SNL 510-608	160	34	11	M 10
SNL 511-609	200	40	14	M 12
SNL 512-610	200	40	14	M 12
SNL 513-611	220	48	14	M 12
SNL 515-612	220	48	14	M 12
SNL 516-613	252	52	18	M 16
SNL 517	252	52	18	M 16
SNL 518-615	280	58	18	M 16
SNL 519-616	280	58	18	M 16
SNL 520-617	300	66	18	M 16
SNL 522-619	320	74	18	M 16
SNL 524-620	330	74	18	M 16
SNL 526	370	80	22	M 20
SNL 528	400	92	26	M 24
SNL 530	430	100	26	M 24
SNL 532	450	100	26	M 24

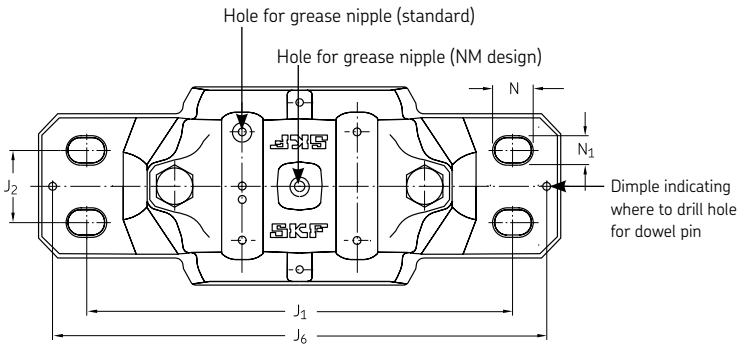


Table 12

Bolt hole dimensions

Housing Size	Dimensions N	N_1	J_1	J_2	J_6
–	mm				
FSNL 511-609 NM	20	15	210	35	234
FSNL 513-611 NM	20	15	230	40	252
FSNL 515-612 NM	20	15	230	40	257
FSNL 516-613 NM	24	18	260	50	288
FSNL 517 NM	24	18	260	50	292
FSNL 518-615 NM	24	18	290	50	317
FSNL 520-617 NM	24	18	320	60	348
FSNL 522-619 NM	24	18	350	70	378
FSNL 524-620 NM	24	18	350	70	378
FSNL 526 NM	28	22	380	70	414
FSNL 528 NM	32	26	420	80	458
FSNL 530 NM	32	26	450	90	486
FSNL 532 NM	32	26	470	90	506

Load carrying ability

SNL plummer block housings are intended for loads acting vertically towards the base plate (support). If loads acting in other directions occur, checks should be made to ensure that the magnitude of the load is permissible for the housing, the bolts joining the housing cap and base, and for the attachment bolts.

Load carrying ability of the housing

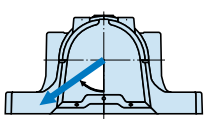
Guideline values for the breaking load P of the housing for various load directions are given in **Table 13**. Using these values and a safety factor selected with respect to the operating conditions, the permissible load for the housing can be calculated. In general engineering a safety factor of 6 is often used. For special purposes where extra strength and resistance to shock loads are required, SKF supplies as standard a range of dimensionally equivalent spheroidal graphite cast-iron housings. For housings made of spheroidal graphite cast-iron, the values for P obtained from **Table 13** should be multiplied by 1.8.

It is important for the load carrying ability of the housing that the bolts joining cap and base are properly tightened in accordance with the values given in **Table 14**. The axial load carrying capacity of the housing is approximately 65% of P180°. For load angles between 55° and 120° as well as for axial loads, if the load acting parallel to the base plate (support surface) exceeds 5% of P180°, the housing should be pinned to the support or a stop should be provided in the direction of the load.

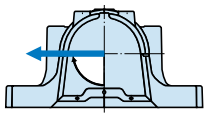
Load carrying ability of the bolts

SNL plummer block housings are supplied with cap bolts (to join cap and base) to strength class 8.8 as standard. The guideline values for the yield point Q for the cap bolts are given in **Table 14** for various load directions as well as the corresponding maximum radial loads F.

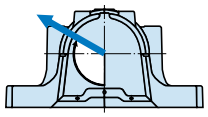
IMPORTANT: Refer to text for determination of permissible load



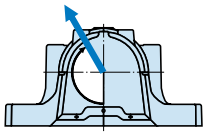
$P_{55°}$



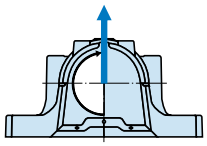
$P_{90°}$



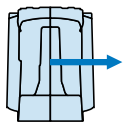
$P_{120°}$



$P_{150°}$



$P_{180°}$



P_a

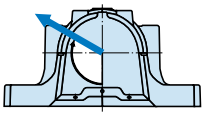
Table 13

Breaking loads for SNL plummer block housings

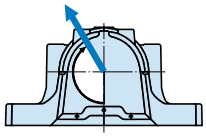
Housing Size	Breaking loads for SNL housing $P_{55°}$	$P_{90°}$	$P_{120°}$	$P_{150°}$	$P_{180°}$	P_a
–	kN*					
SNL 205	155	95	70	60	80	52
SNL 206-305	170	100	80	65	85	55
SNL 207	190	115	85	80	95	60
SNL 208-307	215	130	95	85	110	70
SNL 209	230	140	100	90	115	75
SNL 210	265	155	120	110	130	85
SNL 211	275	170	125	115	140	90
SNL 212	300	180	130	120	150	100
SNL 213	340	205	150	130	170	110
SNL 215	410	250	185	160	205	135
SNL 216	430	260	190	175	215	140
SNL 217	480	290	205	190	240	155
SNL 218	550	340	250	215	275	180
SNL 505	155	95	70	60	80	52
SNL 506-605	170	100	80	65	85	55
SNL 507-606	190	115	85	80	95	60
SNL 508-607	215	130	95	85	110	70
SNL 509	230	140	100	90	115	75
SNL 510-608	265	155	120	110	130	85
SNL 511-609	275	170	125	115	140	90
SNL 512-610	300	180	130	120	150	100
SNL 513-611	340	205	150	130	170	110
SNL 515-612	410	250	185	160	205	135
SNL 516-613	430	260	190	175	215	140
SNL 517	480	290	205	190	240	155
SNL 518-615	550	340	250	215	275	180
SNL 519-616	580	350	260	230	290	190
SNL 520-617	620	370	280	250	310	200
SNL 522-619	680	410	310	275	340	220
SNL 524-620	790	470	350	320	400	260
SNL 526	900	540	410	360	450	295
SNL 528	1 050	630	470	430	530	345
SNL 530	1 200	730	540	480	600	390
SNL 532	1 450	860	640	570	720	470

* lbs = Kn x 225

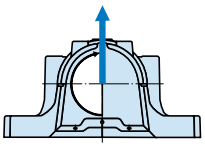
Load carrying ability



$Q_{120°}$
$F_{120°}$



$Q_{150°}$
$F_{150°}$



$Q_{180°}$
$F_{180°}$

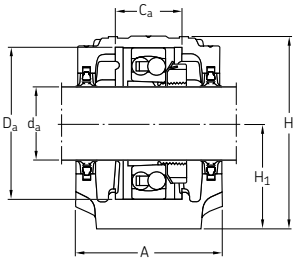
Table 14

Load carrying ability and tightening torque for cap bolts and attachment bolts

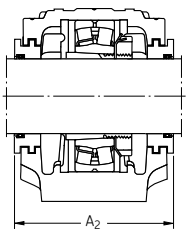
Housing	Cap bolts								Attachment bolts	
Size	Yield point for both bolts			Maximum load for both bolts			Tightening torque	Designation	Size	Tightening torque
	$Q_{120°}$	$Q_{150°}$	$Q_{180°}$	$F_{120°}$	$F_{150°}$	$F_{180°}$				
–	kN[1]			kN[1]			Nm[2]	–	–	Nm[2]
SNL 205	150	85	75	50	30	25	50	M 10x40	M 12	90
SNL 206-305	150	85	75	50	30	25	50	M 10x40	M 12	90
SNL 207	150	85	75	50	30	25	50	M 10x50	M 12	90
SNL 208-307	150	85	75	50	30	25	50	M 10x50	M 12	90
SNL 209	150	85	75	50	30	25	50	M 10x50	M 12	90
SNL 210	150	85	75	50	30	25	50	M 10x55	M 12	90
SNL 211	220	125	110	80	45	40	80	M 12x60	M 16	220
SNL 212	220	125	110	80	45	40	80	M 12x60	M 16	220
SNL 213	220	125	110	80	45	40	80	M 12x65	M 16	220
SNL 215	220	125	110	80	45	40	80	M 12x65	M 16	220
SNL 216	220	125	110	80	45	40	80	M 12x70	M 20	430
SNL 217	220	125	110	80	45	40	80	M 12x80	M 20	430
SNL 218	400	230	200	170	100	85	150	M 16x90	M 20	430
SNL 505	150	85	75	50	30	25	50	M 10x40	M 12	90
SNL 506-605	150	85	75	50	30	25	50	M 10x40	M 12	90
SNL 507-606	150	85	75	50	30	25	50	M 10x50	M 12	90
SNL 508-607	150	85	75	50	30	25	50	M 10x50	M 12	90
SNL 509	150	85	75	50	30	25	50	M 10x50	M 12	90
SNL 510-608	150	85	75	50	30	25	50	M 10x55	M 12	90
SNL 511-609	220	125	110	80	45	40	80	M 12x60	M 16	220
SNL 512-610	220	125	110	80	45	40	80	M 12x60	M 16	220
SNL 513-611	220	125	110	80	45	40	80	M 12x65	M 16	220
SNL 515-612	220	125	110	80	45	40	80	M 12x65	M 16	220
SNL 516-613	220	125	110	80	45	40	80	M 12x70	M 20	430
SNL 517	220	125	110	80	45	40	80	M 12x80	M 20	430
SNL 518-615	400	230	200	170	100	85	150	M 16x90	M 20	430
SNL 519-616	400	230	200	170	100	85	150	M 16x90	M 20	430
SNL 520-617	620	360	310	260	150	130	200	M 20x100	M 24	750
SNL 522-619	620	360	310	260	150	130	200	M 20x100	M 24	750
SNL 524-620	620	360	310	260	150	130	200	M 20x110	M 24	750
SNL 526	900	500	450	380	220	190	350	M 24x130	M 24	750
SNL 528	900	500	450	380	220	190	350	M 24x130	M 30	1 400
SNL 530	900	500	450	380	220	190	350	M 24x130	M 30	1 400
SNL 532	900	500	450	380	220	190	350	M 24x130	M 30	1 400

[1] lbs = kN x 225
[2] 1 Nm = 8.85 in-lbf

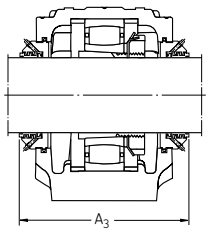
SNL plummer block housings
for bearings on adapter sleeve
d_a 20 – 35 mm



Double-lip seals
G-design



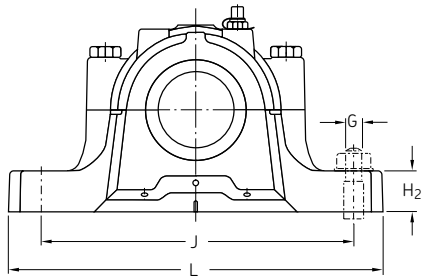
Labyrinth seals
S-design

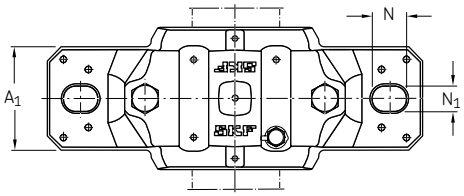


Taconite seals
ND-design

Note: These products are not sold as complete units. Each component must be ordered separately.

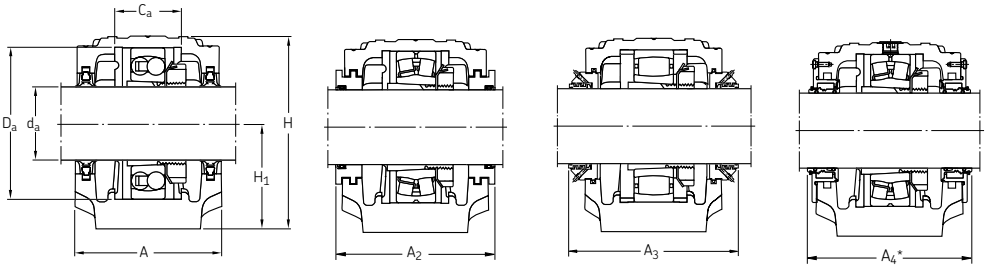
Shaft	Housing dimensions										Mass	Designations		
												Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
20	67	46	74	40	19	130	165	20	15	12	1.45	SNL 505	TSN 505 G	ASNH 505
												SNL 505	TSN 505 A	ASNH 505
												SNL 505	TSN 505 C	ASNH 505
												SNL 505	TSN 505 S	ASNH 505
												SNL 505	TSN 505 ND	ASNH 505
	77	52	89	50	22	150	185	20	15	12	2.00	SNL 506-605	TSN 605 G	ASNH 506-605
												SNL 506-605	TSN 605 A	ASNH 506-605
												SNL 506-605	TSN 605 C	ASNH 506-605
												SNL 506-605	TSN 605 S	ASNH 506-605
												SNL 506-605	TSN 605 ND	ASNH 506-605
25	77	52	89	50	22	150	185	20	15	12	2.00	SNL 506-605	TSN 506 G	ASNH 506-605
												SNL 506-605	TSN 506 A	ASNH 506-605
												SNL 506-605	TSN 506 C	ASNH 506-605
												SNL 506-605	TSN 506 S	ASNH 506-605
												SNL 506-605	TSN 506 ND	ASNH 506-605
	82	52	93	50	22	150	185	20	15	12	2.20	SNL 507-606	TSN 606 G	ASNH 507-606
												SNL 507-606	TSN 606 A	ASNH 507-606
												SNL 507-606	TSN 606 C	ASNH 507-606
												SNL 507-606	TSN 606 S	ASNH 507-606
												SNL 507-606	TSN 606 ND	ASNH 507-606
30	82	52	93	50	22	150	185	20	15	12	2.20	SNL 507-606	TSN 507 G	ASNH 507-606
												SNL 507-606	TSN 507 A	ASNH 507-606
												SNL 507-606	TSN 507 C	ASNH 507-606
												SNL 507-606	TSN 507 S	ASNH 507-606
												SNL 507-606	TSN 507 ND	ASNH 507-606
	85	60	107	60	25	170	205	20	15	12	2.90	SNL 508-607	TSN 607 G	ASNH 508-607
												SNL 508-607	TSN 607 A	ASNH 508-607
												SNL 508-607	TSN 607 C	ASNH 508-607
												SNL 508-607	TSN 607 S	ASNH 508-607
												SNL 508-607	TSN 607 ND	ASNH 508-607
35	85	60	108	60	25	170	205	20	15	12	2.90	SNL 508-607	TSN 508 G	ASNH 508-607
												SNL 508-607	TSN 508 A	ASNH 508-607
												SNL 508-607	TSN 508 C	ASNH 508-607
												SNL 508-607	TSN 508 S	ASNH 508-607
												SNL 508-607	TSN 508 ND	ASNH 508-607
	90	60	113	60	25	170	205	20	15	12	3.20	SNL 510-608	TSN 608 G	ASNH 510-608
												SNL 510-608	TSN 608 A	ASNH 510-608
												SNL 510-608	TSN 608 C	ASNH 510-608
												SNL 510-608	TSN 608 S	ASNH 510-608
												SNL 510-608	TSN 608 ND	ASNH 510-608





Shaft	Bearing seating		Width across seal		Appropriate bearings and associated components					
					Self-aligning ball bearing Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing
d_a	C_a	D_a	A_2	A_3						
mm	mm		mm		–					
20	25	52	80	130	**1205 EK** **–**	H 205 –	FRB 5/52 –	**2205 EK** **22205 CCK/W33** **C 2205 K**	H 305 H 305 H 305 E	FRB 3.5/52 FRB 3.5/52 FRB 3.5/52
	32	62	89	135	**1305 EK** **–**	H 305 –	FRB 7.5/62 –	**2305 EK** **–** **–**	H 2305 – –	FRB 4/62 – –
25	32	62	89	140	**1206 EK** **–**	H 206 –	FRB 8/62 –	**2206 EK** **22206 CCK/W33** **C 2206 K**	H 306 H 306 H 306 E	FRB 6/62 FRB 6/62 FRB 6/62
	34	72	94	140	**1306 EK** **–**	H 306 –	FRB 7.5/72 –	**2306 K** **–** **–**	H 2306 – –	FRB 3.5/72 – –
30	34	72	94	145	**1207 EK** **–**	H 207 –	FRB 8.5/72 –	**2207 EK** **22207 CCK/W33** **C 2207 K**	H 307 H 307 H 307 E	FRB 5.5/72 FRB 5.5/72 FRB 5.5/72
	39	80	97	145	**1307 EK** **–**	H 307 –	FRB 9/80 –	**2307 EK** **–** **–**	H 2307 – –	FRB 4/80 – –
35	39	80	97	150	**1208 EK** **–**	H 208 –	FRB 10.5/80 –	**2208 EK** **22208 EK** **C 2208 K**	H 308 H 308 H 308 E	FRB 8/80 FRB 8/80 FRB 8/80
	41	90	102	150	**1308 EK** **21308 CCK**	H 308 H 308	FRB 9/90 FRB 9/90	**2308 EK** **22308 CCK/W33** **–**	H 2308 H 2308 –	FRB 4/90 FRB 4/90 –

SNL plummer block housings
for bearings on adapter sleeve
d_a 40 – 50 mm

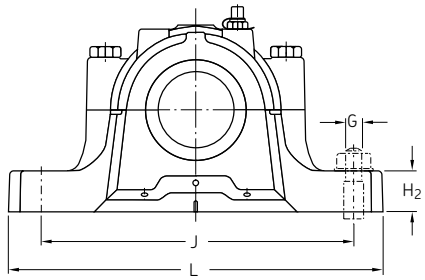


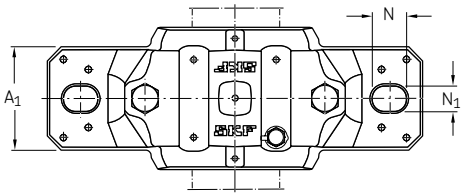
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design | Oil seals U-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
40	85	60	109	60	25	170	205	20	15	12	2.90	SNL 509	TSN 509 G	ASNH 509
												SNL 509	TSN 509 A	ASNH 509
												SNL 509	TSN 509 C	ASNH 509
												SNL 509	TSN 509 S	ASNH 509
												SNL 509	TSN 509 ND	ASNH 509
	95	70	127	70	28	210	255	24	18	16	4.40	SNL 511-609	TSN 609 G	ASNH 511-609
												SNL 511-609	TSN 609 A	ASNH 511-609
												SNL 511-609	TSN 609 C	ASNH 511-609
												SNL 511-609	TSN 609 S	ASNH 511-609
												SNL 511-609	TSN 609 ND	ASNH 511-609
												SNL 511-609 RU	TSN 609 U	ASNH 511-609 R
45	90	60	113	60	25	170	205	20	15	12	3.20	SNL 510-608	TSN 510 G	ASNH 510-608
												SNL 510-608	TSN 510 A	ASNH 510-608
												SNL 510-608	TSN 510 C	ASNH 510-608
												SNL 510-608	TSN 510 S	ASNH 510-608
												SNL 510-608	TSN 510 ND	ASNH 510-608
	105	70	133	70	30	210	255	24	18	16	5.10	SNL 512-610	TSN 610 G	ASNH 512-610
												SNL 512-610	TSN 610 A	ASNH 512-610
												SNL 512-610	TSN 610 C	ASNH 512-610
												SNL 512-610	TSN 610 S	ASNH 512-610
												SNL 512-610	TSN 610 ND	ASNH 512-610
												SNL 512-610 RU	TSN 610 U	ASNH 512-610 R
50	95	70	128	70	28	210	255	24	18	16	4.40	SNL 511-609	TSN 511 G	ASNH 511-609
												SNL 511-609	TSN 511 A	ASNH 511-609
												SNL 511-609	TSN 511 C	ASNH 511-609
												SNL 511-609	TSN 511 S	ASNH 511-609
												SNL 511-609	TSN 511 ND	ASNH 511-609
												SNL 211 RU	TSN 511 U	ASNH 513-611 R
	110	80	148	80	30	230	275	24	18	16	6.50	SNL 513-611	TSN 611 G	ASNH 513-611
												SNL 513-611	TSN 611 A	ASNH 513-611
												SNL 513-611	TSN 611 C	ASNH 513-611
												SNL 513-611	TSN 611 S	ASNH 513-611
												SNL 513-611	TSN 611 ND	ASNH 513-611
												SNL 513-611 RU	TSN 611 U	ASNH 513-611 R

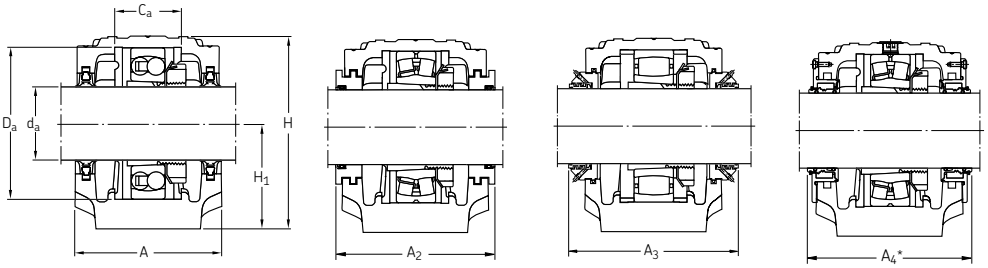
* For A_4 dimension see Table 4, page 466.





Shaft	Bearing seating		Width across seal		Appropriate bearings and associated components					
					Self-aligning ball bearing Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing
d_a	C_a	D_a	A_2	A_3						
mm	mm		mm		–					
40	30	85	97	150	**1209 EK**	H 209	FRB 5.5/85	**2209 EK**	H 309	FRB 3.5/85
					–	–	–	**22209 CCK/W33**	H 309	FRB 3.5/85
								C 2209 K	H 309 E	FRB 3.5/85
	44	100	107	155	**1309 EK**	H 309	FRB 9.5/100	**2309 EK**	H 2309	FRB 4/100
					21309 EK	H 309	FRB 9.5/100	**22309 CCK/W33**	H 2309	FRB 4/100
								–	–	–
45	41	90	102	155	**1210 EK**	H 210	FRB 10.5/90	**2210 EK**	H 310	FRB 9/90
					–	–	–	**22210 CCK/W33**	H 310	FRB 9/90
								C 2210 K	H 310 E	FRB 9/90
	48	110	117	165	**1310 EK**	H 310	FRB 10.5/110	**2310 K**	H 2310	FRB 4/110
					21310 EK	H 310	FRB 10.5/110	**22310 CCK/W33**	H 2310	FRB 4/110
								–	–	–
50	44	100	107	165	**1211 EK**	H 211	FRB 11.5/100	**2211 EK**	H 311	FRB 9.5/100
					–	–	–	**22211 EK**	H 311	FRB 9.5/100
								C 2211 K	H 311 E	FRB 9.5/100
	51	120	122	170	**1311 EK**	H 311	FRB 11/120	**2311 K**	H 2311	FRB 4/120
					21311 EK	H 311	FRB 11/120	**22311 EK**	H 2311	FRB 4/120

SNL plummer block housings
for bearings on adapter sleeve
d_a 55 – 65 mm

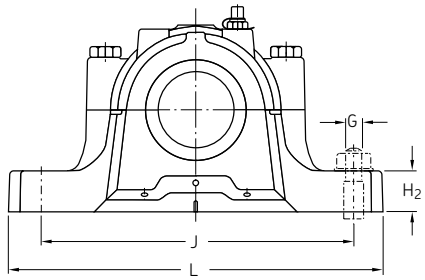


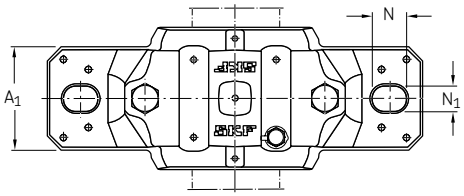
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design | Oil seals U-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
55	105	70	134	70	30	210	255	24	18	16	5.10	SNL 512-610	TSN 512 G	ASNH 512-610
												SNL 512-610	TSN 512 A	ASNH 512-610
												SNL 512-610	TSN 512 C	ASNH 512-610
												SNL 512-610	TSN 512 S	ASNH 512-610
												SNL 512-610	TSN 512 ND	ASNH 512-610
												SNL 212 RU	TSN 512 U	ASNH 515-612 R
	115	80	154	80	30	230	280	24	18	16	7.00	SNL 515-612	TSN 612 G	ASNH 515-612
												SNL 515-612	TSN 612 A	ASNH 515-612
												SNL 515-612	TSN 612 C	ASNH 515-612
												SNL 515-612	TSN 612 S	ASNH 515-612
												SNL 515-612	TSN 612 ND	ASNH 515-612
												SNL 515-612 RU	TSN 612 U	ASNH 515-612 R
60	110	80	149	80	30	230	275	24	18	16	6.50	SNL 513-611	TSN 513 G	ASNH 513-611
												SNL 513-611	TSN 513 A	ASNH 513-611
												SNL 513-611	TSN 513 C	ASNH 513-611
												SNL 513-611	TSN 513 S	ASNH 513-611
												SNL 513-611	TSN 513 ND	ASNH 513-611
												SNL 213 RU	TSN 513 U	ASNH 513-611 R
	120	90	175	95	32	260	315	28	22	20	9.50	SNL 516-613	TSN 613 G	ASNH 516-613
												SNL 516-613	TSN 613 A	ASNH 516-613
												SNL 516-613	TSN 613 C	ASNH 516-613
												SNL 516-613	TSN 613 S	ASNH 516-613
												SNL 516-613	TSN 613 ND	ASNH 516-613
												SNL 516-613 RU	TSN 613 U	ASNH 516-613 R
65	115	80	155	80	30	230	280	24	18	16	7.00	SNL 515-612	TSN 515 G	ASNH 515-612
												SNL 515-612	TSN 515 A	ASNH 515-612
												SNL 515-612	TSN 515 C	ASNH 515-612
												SNL 515-612	TSN 515 S	ASNH 515-612
												SNL 515-612	TSN 515 ND	ASNH 515-612
												SNL 215 RU	TSN 515 U	ASNH 518-615 R
	140	100	193	100	35	290	345	28	22	20	12.5	SNL 518-615	TSN 615 G	ASNH 518-615
												SNL 518-615	TSN 615 A	ASNH 518-615
												SNL 518-615	TSN 615 C	ASNH 518-615
												SNL 518-615	TSN 615 S	ASNH 518-615
												SNL 518-615	TSN 615 ND	ASNH 518-615
												SNL 518-615 RU	TSN 615 U	ASNH 518-615 R

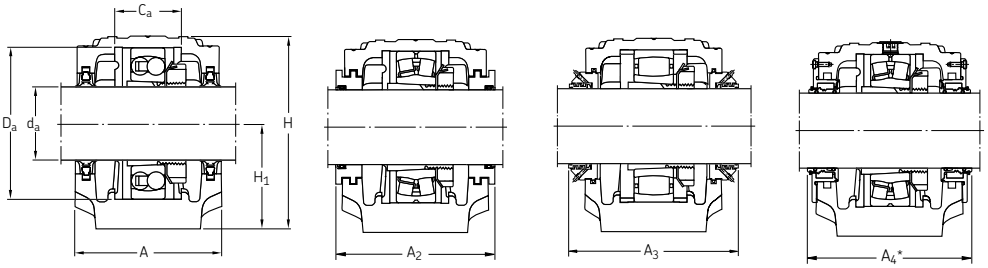
* For A_4 dimension see Table 4, page 466.





Shaft	Bearing seating		Width across seal		Appropriate bearings and associated components					
					Self-aligning ball bearing Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing
d_a	C_a	D_a	A_2	A_3						
mm	mm		mm		–					
55	48	110	117	175	**1212 EK** **–**	H 212 –	FRB 13/110 –	**2212 EK** **22212 EK** **C 2212 K**	H 312 H 312 H 312 E	FRB 10/110 FRB 10/110 FRB 10/110
	56	130	127	175	**1312 EK** **21312 EK**	H 312 H 312	FRB 12.5/130 FRB 12.5/130	**2312 K** **22312 EK** **–**	H 2312 H 2312 –	FRB 5/130 FRB 5/130 –
60	51	120	122	180	**1213 EK** **–**	H 213 –	FRB 14/120 –	**2213 EK** **22213 CCK/W33** **C 2213 K**	H 313 H 313 H 313 E	FRB 10/120 FRB 10/120 FRB 10/120
	58	140	138	180	**1313 EK** **21313 EK**	H 313 H 313	FRB 12.5/140 FRB 12.5/140	**2313 K** **22313 EK** **–**	H 2313 H 2313 –	FRB 5/140 FRB 5/140 –
65	56	130	127	175	**1215 K** **–**	H 215 –	FRB 15.5/130 –	**2215 EK** **22215 EK** **C 2215 K**	H 315 H 315 H 315 E	FRB 12.5/130 FRB 12.5/130 FRB 12.5/130
	65	160	158	200	**1315 K** **21315 EK**	H 315 H 315	FRB 14/160 FRB 14/160	**2315 K** **22315 EK** **C 2315 K**	H 2315 H 2315 H 2315	FRB 5/160 FRB 5/160 FRB 5/160

SNL plummer block housings
for bearings on adapter sleeve
d_a 70 – 85mm

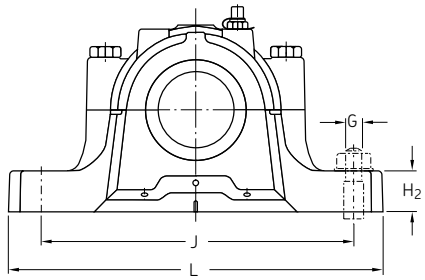


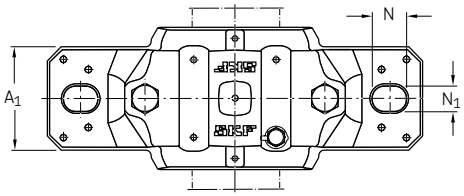
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design | Oil seals U-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations		
												Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
70	120	90	177	95	32	260	315	28	22	20	9.50	SNL 516-613	TSN 516 G	ASNH 516-613
												SNL 516-613	TSN 516 A	ASNH 516-613
												SNL 516-613	TSN 516 C	ASNH 516-613
												SNL 516-613	TSN 516 S	ASNH 516-613
												SNL 516-613	TSN 516 ND	ASNH 516-613
												SNL 216 RU	TSN 516 U	ASNH 216 R
	145	100	210	112	35	290	345	28	22	20	13.7	SNL 519-616	TSN 616 G	ASNH 519-616
												SNL 519-616	TSN 616 A	ASNH 519-616
												SNL 519-616	TSN 616 C	ASNH 519-616
												SNL 519-616	TSN 616 S	ASNH 519-616
												SNL 519-616	TSN 616 ND	ASNH 519-616
												SNL 519-616 RU	TSN 616 U	ASNH 519-616 R
75	125	90	183	95	32	260	320	28	22	20	10.0	SNL 517	TSN 517 G	ASNH 517
												SNL 517	TSN 517 A	ASNH 517
												SNL 517	TSN 517 C	ASNH 517
												SNL 517	TSN 517 S	ASNH 517
												SNL 517	TSN 517 ND	ASNH 517
												SNL 217 RU	TSN 517 U	ASNH 217 R
	160	110	215	112	40	320	380	32	26	24	17.6	SNL 520-617	TSN 617 G	ASNH 520-617
												SNL 520-617	TSN 617 A	ASNH 520-617
												SNL 520-617	TSN 617 C	ASNH 520-617
												SNL 520-617	TSN 617 S	ASNH 520-617
												SNL 520-617	TSN 617 ND	ASNH 520-617
												SNL 520-617 RU	TSN 617 U	ASNH 520-617 R
80	140	100	194	100	35	290	345	28	22	20	12.5	SNL 518-615	TSN 518 G	ASNH 518-615
												SNL 518-615	TSN 518 A	ASNH 518-615
												SNL 518-615	TSN 518 C	ASNH 518-615
												SNL 518-615	TSN 518 S	ASNH 518-615
												SNL 518-615	TSN 518 ND	ASNH 518-615
												SNL 218 RU	TSN 518 U	ASNH 218 R
85	145	100	212	112	35	290	345	28	22	20	13.7	SNL 519-616	TSN 519 G	ASNH 519-616
												SNL 519-616	TSN 519 A	ASNH 519-616
												SNL 519-616	TSN 519 C	ASNH 519-616
												SNL 519-616	TSN 519 S	ASNH 519-616
												SNL 519-616	TSN 519 ND	ASNH 519-616
												SNL 519-616 RU	TSN 519 U	ASNH 519-616 R
	175	120	239	125	45	350	410	32	26	24	22.0	SNL 522-619	TSN 619 G	ASNH 522-619
												SNL 522-619	TSN 619 A	ASNH 522-619
												SNL 522-619	TSN 619 C	ASNH 522-619
												SNL 522-619	TSN 619 S	ASNH 522-619
												SNL 522-619	TSN 619 ND	ASNH 522-619
												SNL 522-619 RU	TSN 619 U	ASNH 522-619 R

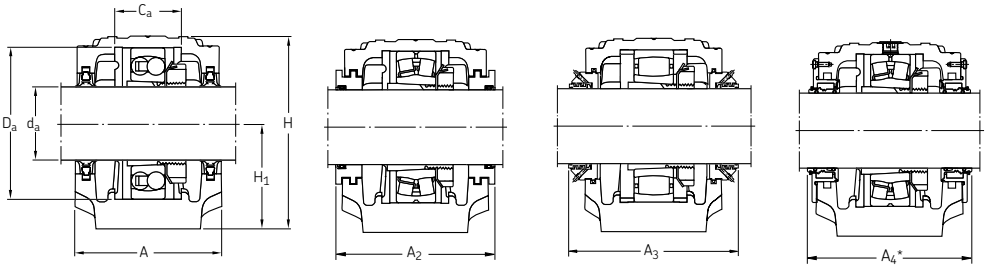
* For A_4 dimension see Table 4, page 466.





Shaft	Bearing seating		Width across seal		Appropriate bearings and associated components					
					Self-aligning ball bearing Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing
d_a	C_a	D_a	A_2	A_3						
mm	mm		mm		–					
70	58	140	138	205	**1216 K** **–**	H 216 –	FRB 16/140 –	**2216 EK** **22216 EK** **C 2216 K**	H 316 H 316 H 316 E	FRB 12.5/140 FRB 12.5/140 FRB 12.5/140
	68	170	163	205	**1316 K** **21316 EK**	H 316 H 316	FRB 14.5/170 FRB 14.5/170	**2316 K** **22316 EK** **C 2316 K**	H 2316 H 2316 H 2316	FRB 5/170 FRB 5/170 FRB 5/170
75	61	150	143	210	**1217 K** **–**	H 217 –	FRB 16.5/150 –	**2217 K** **22217 EK** **C 2217 K**	H 317 H 317 H 317 E	FRB 12.5/150 FRB 12.5/150 FRB 12.5/150
	70	180	178	220	**1317 K** **21317 EK**	H 317 H 317	FRB 14.5/180 FRB 14.5/180	**2317 K** **22317 EK** **C 2317 K**	H 2317 H 2317 H 2317	FRB 5/180 FRB 5/180 FRB 5/180
80	65	160	158	225	**1218 K** **22218 EK**	H 218 H 318	FRB 17.5/160 FRB 12.5/160	**2218 K** **23218 CCK/W33** **C 2218 K**	H 318 H 2318 H 318 E	FRB 12.5/160 FRB 6.25/160 FRB 12.5/160
85	68	170	163	220	**1219 K** **–**	H 219 –	FRB 18/170 –	**2219 K** **22219 EK** **–**	H 319 H 319 –	FRB 12.5/170 FRB 12.5/170 –
	80	200	191	235	**1319 K** **21319 EK**	H 319 H 319	FRB 17.5/200 FRB 17.5/200	**2319 K** **22319 EK**	H 2319 H 2319	FRB 6.5/200 FRB 6.5/200

SNL plummer block housings
for bearings on adapter sleeve
d_a 90 – 135 mm

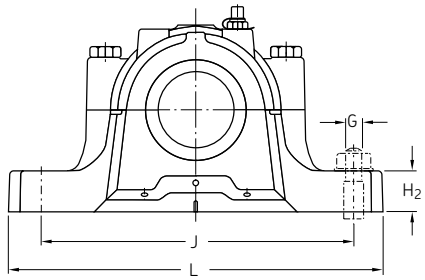


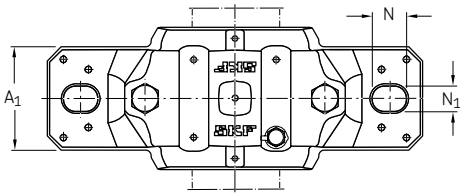
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design | Oil seals U-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations		
												Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
90	160	110	218	112	40	320	380	32	26	24	17.6	SNL 520-617	TSN 520 G	ASNH 520-617
												SNL 520-617	TSN 520 A	ASNH 520-617
												SNL 520-617	TSN 520 C	ASNH 520-617
												SNL 520-617	TSN 520 S	ASNH 520-617
												SNL 520-617	TSN 520 ND	ASNH 520-617
												SNL 520-617 RU	TSN 520 U	ASNH 520-617 R
	185	120	271	140	45	350	410	32	26	24	26.2	SNL 524-620	TSN 620 G	ASNH 524-620
												SNL 524-620	TSN 620 A	ASNH 524-620
												SNL 524-620	TSN 620 C	ASNH 524-620
												SNL 524-620	TSN 620 S	ASNH 524-620
												SNL 524-620	TSN 620 ND	ASNH 524-620
												SNL 524-620 RU	TSN 620 U	ASNH 524-620 R
100	175	120	242	125	45	350	410	32	26	24	22.0	SNL 522-619	TSN 522 G	ASNH 522-619
												SNL 522-619	TSN 522 A	ASNH 522-619
												SNL 522-619	TSN 522 C	ASNH 522-619
												SNL 522-619	TSN 522 S	ASNH 522-619
												SNL 522-619	TSN 522 ND	ASNH 522-619
												SNL 522-619 RU	TSN 522 U	ASNH 522-619 R
110	185	120	271	140	45	350	410	32	26	24	26.2	SNL 524-620	TSN 524 G	ASNH 524-620
												SNL 524-620	TSN 524 A	ASNH 524-620
												SNL 524-620	TSN 524 C	ASNH 524-620
												SNL 524-620	TSN 524 S	ASNH 524-620
												SNL 524-620	TSN 524 ND	ASNH 524-620
												SNL 524-620 RU	TSN 524 U	ASNH 524-620 R
115	190	130	290	150	50	380	445	35	28	24	33.0	SNL 526	TSN 526 G	ASNH 526
												SNL 526	TSN 526 A	ASNH 526
												SNL 526	TSN 526 C	ASNH 526
												SNL 526	TSN 526 S	ASNH 526
												SNL 526	TSN 526 ND	ASNH 526
												SNL 526 RU	TSN 526 U	ASNH 526 R
125	205	150	302	150	50	420	500	42	35	30	40.0	SNL 528	TSN 528 G	ASNH 528
												SNL 528	TSN 528 A	ASNH 528
												SNL 528	TSN 528 C	ASNH 528
												SNL 528	TSN 528 S	ASNH 528
												SNL 528	TSN 528 ND	ASNH 528
												SNL 528 RU	TSN 528 U	ASNH 528 R
135	220	160	323	160	60	450	530	42	35	30	49.0	SNL 530	TSN 530 G	ASNH 530
												SNL 530	TSN 530 A	ASNH 530
												SNL 530	TSN 530 C	ASNH 530
												SNL 530	TSN 530 S	ASNH 530
												SNL 530	TSN 530 ND	ASNH 530
												SNL 530 RU	TSN 530 U	ASNH 530 R

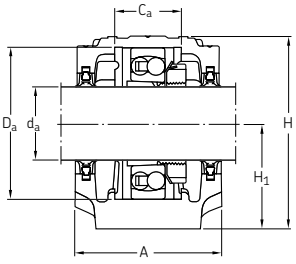
* For A_4 dimension see Table 4, page 466.



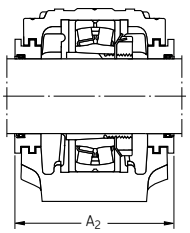


Shaft	Bearing seating		Width across seal		Appropriate bearings and associated components					
					Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing
d_a	C_a	D_a	A_2	A_3						
mm	mm		mm		–					
90	70	180	178	235	**1220 K** **22220 EK**	H 220 H 320	FRB 18/180 FRB 12/180	**2220 K** **23220 CCK/W33** **C 2220 K**	H 320 H 2320 H 320 E	FRB 12/180 FRB 4.85/180 FRB 12/180
	86	215	199	240	**1320 K** **21320 EK**	H 320 H 320	FRB 19.5/215 FRB 19.5/215	**2320 K** **22320 EK** **C 2320 K**	H 2320 H 2320 H 2320	FRB 6.5/215 FRB 6.5/215 FRB 6.5/215
100	80	200	191	250	**1222 K** **22222 EK**	H 222 H 322	FRB 21/200 FRB 13.5/200	**2222 K** **23222 CCK/W33** **C 2222 K**	H 322 H 2322 H 322 E	FRB 13.5/200 FRB 5.1/200 FRB 13.5/200
110	86	215	199	260	**1224 K** **22224 EK**	H 3124 H 3124	FRB 22/215 FRB 14/215	**–** **23224 CCK/W33** **C 3224 K**	– H 2324 H 2324 L	– FRB 5/215 FRB 5/215
115	90	230	208	265	**–** **22226 EK**	– H 3126	– FRB 13/230	**–** **23226 CCK/W33** **C 2226 K**	– H 2326 H 3126 L	– FRB 5/230 FRB 13/230
125	98	250	223	285	**22228 CCK/W33**	H 3128	FRB 15/250	**23228 CCK/W33** **C 2228 K**	H 2328 H 3128 L	FRB 5/250 FRB 15/250
135	106	270	241	295	**22230 CCK/W33**	H 3130	FRB 16.5/270	**23230 CCK/W33** **C 2230 K**	H 2330 H 3130 L	FRB 5/270 FRB 16.5/270

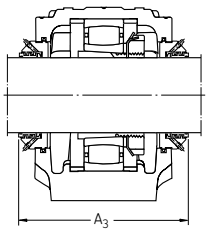
SNL plummer block housings
for bearings on adapter sleeve
d_a 140 mm



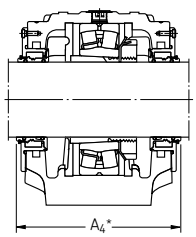
Double-lip seals
G-design



Labyrinth seals
S-design



Taconite seals
ND-design

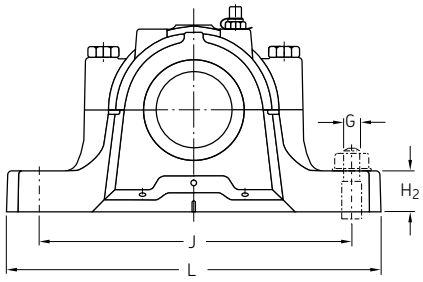


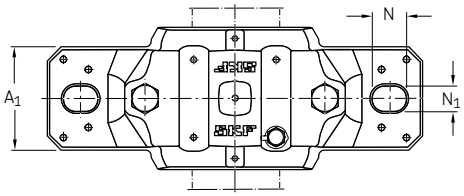
Oil seals
U-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations		
												Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
140	235	160	344	170	60	470	550	42	35	30	55.0	SNL 532	TSN 532 G	ASNH 532
												SNL 532	TSN 532 A	ASNH 532
												SNL 532	TSN 532 C	ASNH 532
												SNL 532	TSN 532 S	ASNH 532
												SNL 532	TSN 532 ND	ASNH 532
												SNL 532 RU	TSN 532 U	ASNH 532 R

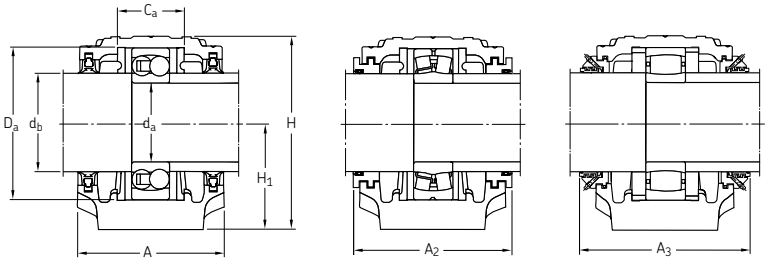
* For A_4 dimension see Table 4, page 466.





Shaft	Bearing seating		Width across seal		Appropriate bearings and associated components					
					Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing
d_a	C_a	D_a	A_2	A_3						
mm	mm		mm		–					
140	114	290	254	315	**22232 CCK/W33**	H 3132	FRB 17/290	**23232 CCK/W33** **C 3232 K**	H 2332 H 2332 L	FRB 5/290 FRB 5/290

SNL plummer block housings
for bearings with cylindrical bore
d_a 25 – 40 mm

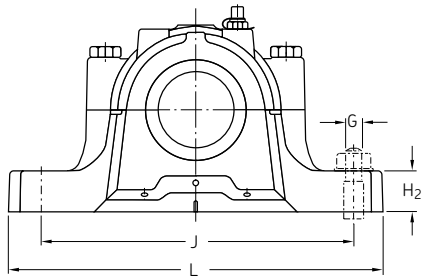


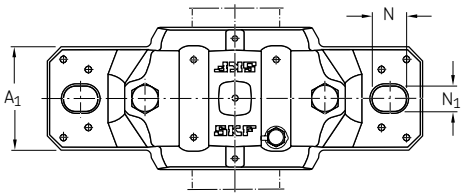
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
25	67	46	74	40	19	130	165	20	15	12	1.40	SNL 205 SNL 505 SNL 205 SNL 205	TSN 205 G 2 FS 170 TSN 205 S TSN 205 ND	ASNH 506-605 ASNH 505 ASNH 506-605 ASNH 506-605
	77	52	89	50	22	150	185	20	15	12	1.90	SNL 206-305 SNL 206-305 SNL 206-305 SNL 206-305	TSN 305 G TSN 305 A TSN 305 S TSN 305 ND	ASNH 507-605 ASNH 507-605 ASNH 507-605 ASNH 507-605
30	77	52	89	50	22	150	185	20	15	12	1.90	SNL 206-305 SNL 206-305 SNL 506-605 SNL 206-305 SNL 206-305	TSN 206 G TSN 206 A 2 FS 170 TSN 206 S TSN 206 ND	ASNH 507-606 ASNH 507-606 ASNH 506-605 ASNH 507-606 ASNH 507-606
	82	52	93	50	22	150	185	20	15	12	2.20	SNL 507-606 SNL 507-606 SNL 507-606 SNL 507-606	TSN 306 G TSN 306 A TSN 306 S TSN 306 ND	ASNH 507-606 ASNH 507-606 ASNH 507-606 ASNH 507-606
35	82	52	93	50	22	150	185	20	15	12	2.10	SNL 207 SNL 207 SNL 507-606 SNL 207 SNL 207	TSN 207 G TSN 207 A 4 FS 170 TSN 207 S TSN 207 ND	ASNH 509 ASNH 509 ASNH 507-606 ASNH 509 ASNH 509
	85	60	108	60	25	170	205	20	15	12	2.90	SNL 208-307 SNL 208-307 SNL 208-307 SNL 208-307	TSN 307 G TSN 307 A TSN 307 S TSN 307 ND	ASNH 510-608 ASNH 510-608 ASNH 510-608 ASNH 510-608
40	85	60	108	60	25	170	205	20	15	12	2.75	SNL 208-307 SNL 208-307 SNL 508-607 SNL 208-307 SNL 208-307	TSN 208 G TSN 208 A 4 FS 170 TSN 208 S TSN 208 ND	ASNH 510-608 ASNH 510-608 ASNH 508-607 ASNH 510-608 ASNH 510-608
	90	60	113	60	25	170	205	20	15	12	3.20	SNL 510-608 SNL 510-608 SNL 510-608 SNL 510-608	TSN 308 G TSN 308 A TSN 308 S TSN 308 ND	ASNH 510-608 ASNH 510-608 ASNH 510-608 ASNH 510-608

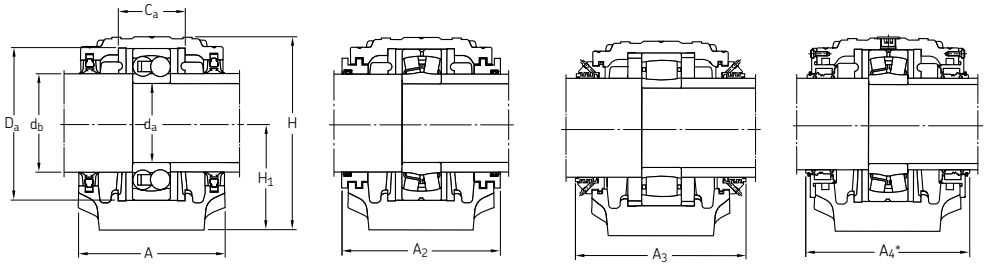
For seal details see pages 500 - 502.





Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
						Self-aligning ball bearing Spherical roller bearing	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Locating rings 2 per housing
d_a	d_b	C_a	D_a	A_2	A_3				
mm		mm		mm		–			
25	30	25	52	90	140	**1205 E** **–**	FRB 5/52 –	**2205 E** **22205 CC/W33** **C 2205**	FRB 3.5/52 FRB 3.5/52 FRB 3.5/52
	30	32	62	89	150	**1305 E** **21305 CC**	FRB 7.5/62 FRB 7.5/62	**2305** **–** **–**	FRB 4/62 – –
30	35	32	62	89	150	**1206 E** **–**	FRB 8/62 –	**2206 E** **22206 CC/W33** **C 2206**	FRB 6/62 FRB 6/6 FRB 6/62
	35	34	72	94	155	**1306 E** **21306 CC**	FRB 7.5/72 FRB 7.5/72	**2306** **–** **–**	FRB 3.5/72 – –
35	45	34	72	96	155	**1207 E** **–**	FRB 8.5/72 –	**2207 E** **22207 CC/W33** **C 2207**	FRB 5.5/72 FRB 5.5/72 FRB 5.5/72
	45	39	80	99	164	**1307 E** **21307 CC**	FRB 9/80 FRB 9/80	**2307 E** **–** **–**	FRB 4/80 – –
40	50	39	80	99	160	**1208 E** **–**	FRB 10.5/80 –	**2208 E** **22208 E** **C 2208**	FRB 8/80 FRB 8/80 FRB 8/80
	50	41	90	102	167	**1308 E** **21308 E**	FRB 9/90 FRB 9/90	**2308 E** **22308 CC/W33** **–**	FRB 4/90 FRB 4/90 –

SNL plummer block housings
for bearings with cylindrical bore
d_a 45 – 60 mm

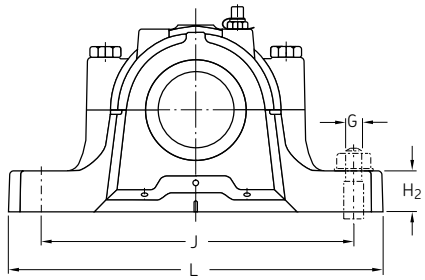


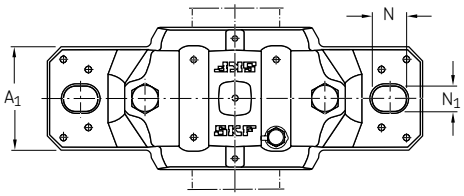
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design | Oil seals U-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
45	85	60	109	60	25	170	205	20	15	12	2.75	SNL 209	TSN 209 G	ASNH 511-609
												SNL 209	TSN 209 A	ASNH 511-609
												SNL 509	4 FS 170	ASNH 509
												SNL 209	TSN 209 S	ASNH 511-609
												SNL 209	TSN 209 ND	ASNH 511-609
	95	70	128	70	28	210	255	24	18	16	4.40	SNL 511-609	TSN 309 G	ASNH 511-609
												SNL 511-609	TSN 309 A	ASNH 511-609
												SNL 511-609	TSN 309 S	ASNH 511-609
												SNL 511-609	TSN 309 ND	ASNH 511-609
50	90	60	113	60	25	170	205	20	15	12	3.00	SNL 210	TSN 210 G	ASNH 512-610
												SNL 210	TSN 210 A	ASNH 512-610
												SNL 510-608	4 FS 170	ASNH 510-608
												SNL 210	TSN 210 S	ASNH 512-610
												SNL 210	TSN 210 ND	ASNH 512-610
	105	70	134	70	30	210	255	24	18	16	5.10	SNL 512-610	TSN 310 G	ASNH 512-610
												SNL 512-610	TSN 310 A	ASNH 512-610
												SNL 512-610	TSN 310 S	ASNH 512-610
												SNL 512-610	TSN 310 ND	ASNH 512-610
55	95	70	128	70	28	210	255	24	18	16	4.20	SNL 211	TSN 211 G	ASNH 513-611
												SNL 211	TSN 211 A	ASNH 513-611
												SNL 511-609	4 FS 170	ASNH 511-609
												SNL 211	TSN 211 S	ASNH 513-611
												SNL 211	TSN 211 ND	ASNH 513-611
	110	80	149	80	30	230	275	24	18	16	6.50	SNL 513-611	TSN 311 G	ASNH 513-611
												SNL 513-611	TSN 311 A	ASNH 513-611
												SNL 513-611	TSN 311 S	ASNH 513-611
												SNL 513-611	TSN 311 ND	ASNH 513-611
60	105	70	134	70	30	210	255	24	18	16	4.75	SNL 212	TSN 212 G	ASNH 515-612
												SNL 212	TSN 212 A	ASNH 515-612
												SNL 512-610	4 FS 170	ASNH 512-610
												SNL 212	TSN 212 S	ASNH 515-612
												SNL 212	TSN 212 ND	ASNH 515-612
	115	80	155	80	30	230	280	24	18	16	7.00	SNL 515-612	TSN 312 G	ASNH 515-612
												SNL 515-612	TSN 312 A	ASNH 515-612
												SNL 515-612	TSN 312 S	ASNH 515-612
												SNL 515-612	TSN 312 ND	ASNH 515-612
												SNL 215 RU	TSN 312 U	ASNH 518-615 R

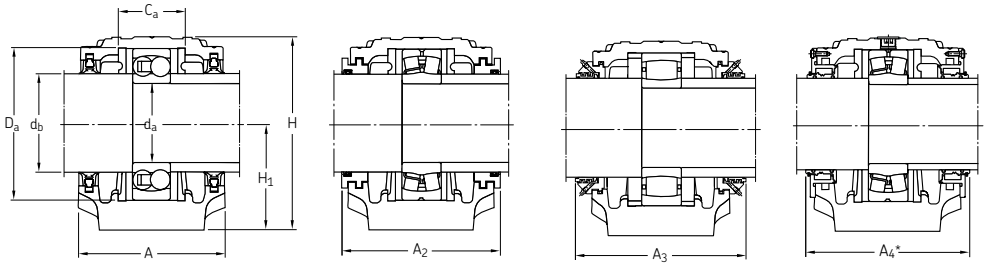
* For A_4 dimension see Table 4, page 466.
For seal details see pages 500 - 502.





Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
						Self-aligning ball bearing Spherical roller bearing	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Locating rings 2 per housing
d_a	d_b	C_a	D_a	A_2	A_3				
mm		mm		mm		–			
45	55	30	85	97	160	**1209 E** **–**	FRB 5.5/85 –	**2209 E** **22209 CC/W33** **C 2209**	FRB 3.5/85 FRB 3.5/85 FRB 3.5/85
	55	44	100	107	172	**1309 E** **21309 E**	FRB 9.5/100 FRB 9.5/100	**2309 E** **22309 CC/W33** **–**	FRB 4/100 FRB 4/100 –
50	60	41	90	102	165	**1210 E** **–**	FRB 10.5/90 –	**2210 E** **22210 CC/W33** **C 2210**	FRB 9/90 FRB 9/90 FRB 9/90
	60	48	110	117	187	**1310 E** **21310 E**	FRB 10.5/110 FRB 10.5/110	**2310** **22310 CC/W33** **–**	FRB 4/110 FRB 4/110 –
55	65	44	100	107	170	**1211 E** **–**	FRB 11.5/100 –	**2211 E** **22211 E** **C 2211**	FRB 9.5/100 FRB 9.5/100 FRB 9.5/100
	65	51	120	122	192	**1311 E** **21311 E**	FRB 11/120 FRB 11/120	**2311** **22311 E** **–**	FRB 4/120 FRB 4/120 –
60	70	48	110	117	180	**1212 E** **–**	FRB 13/110 –	**2212 E** **22212 E** **C 2212**	FRB 10/110 FRB 10/110 FRB 10/110
	70	56	130	127	197	**1312** **21312 E**	FRB 12.5/130 FRB 12.5/130	**2312** **22312 E** **–**	FRB 5/130 FRB 5/130 –

SNL plummer block housings
for bearings with cylindrical bore
d_a 65 – 80 mm

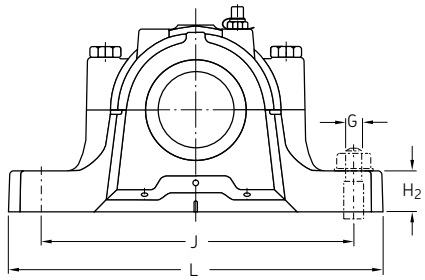


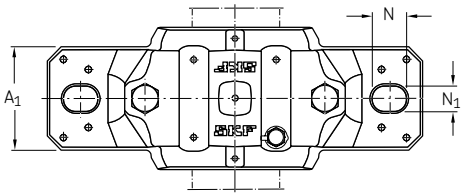
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design | Oil seals U-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
65	110	80	149	80	30	230	275	24	18	16	6.10	SNL 213	TSN 213 G	ASNH 516-613
												SNL 213	TSN 213 A	ASNH 516-613
												SNL 513-611	4 FS 170	ASNH 513-611
												SNL 213	TSN 213 S	ASNH 516-613
												SNL 213	TSN 213 ND	ASNH 516-613
	120	90	177	95	32	260	315	28	22	20	9.50	SNL 516-613	TSN 313 G	ASNH 516-613
												SNL 516-613	TSN 313 A	ASNH 516-613
												SNL 516-613	TSN 313 S	ASNH 516-613
												SNL 516-613	TSN 313 ND	ASNH 516-613
												SNL 216 RU	TSN 313 U	ASNH 216 R
70	125	90	183	95	32	260	320	28	22	20	10.0	SNL 517	TSN 314 G	ASNH 517
												SNL 517	TSN 314 A	ASNH 517
												SNL 517	TSN 314 S	ASNH 517
												SNL 517	TSN 314 ND	ASNH 517
												SNL 217 RU	TSN 314 U	ASNH 217 R
75	115	80	155	80	30	230	280	24	18	16	6.60	SNL 215	TSN 215 G	ASNH 518-615
												SNL 215	TSN 215 A	ASNH 518-615
												SNL 515-612	4 FS 170	ASNH 515-612
												SNL 215	TSN 215 S	ASNH 518-615
												SNL 215	TSN 215 ND	ASNH 518-615
	140	100	194	100	35	290	345	28	22	20	12.5	SNL 518-615	TSN 315 G	ASNH 518-615
												SNL 518-615	TSN 315 A	ASNH 518-615
												SNL 518-615	TSN 315 S	ASNH 518-615
												SNL 518-615	TSN 315 ND	ASNH 518-615
												SNL 218 RU	TSN 315 U	ASNH 218 R
80	120	90	177	95	32	260	315	28	22	20	9.00	SNL 216	TSN 216 G	ASNH 216
												SNL 216	TSN 216 A	ASNH 216
												SNL 516-613	4 FS 170	ASNH 516-613
												SNL 216	TSN 216 S	ASNH 216
												SNL 216	TSN 216 ND	ASNH 216
	145	100	212	112	35	290	345	28	22	20	13.7	SNL 519-616	TSN 316 G	ASNH 519-616
												SNL 519-616	TSN 316 A	ASNH 519-616
												SNL 519-616	TSN 316 S	ASNH 519-616
												SNL 519-616	TSN 316 ND	ASNH 519-616
												SNL 519-616 RU	TSN 316 U	ASNH 519-616 R

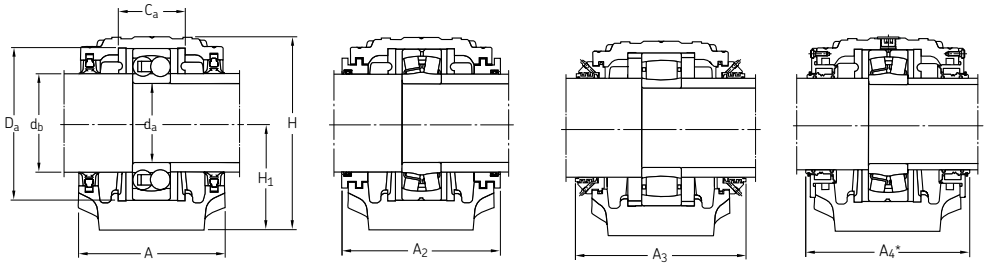
* For A_4 dimension see Table 4, page 466.
For seal details see pages 500 - 502.





Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
						Self-aligning ball bearing Spherical roller bearing	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Locating rings 2 per housing
d_a	d_b	C_a	D_a	A_2	A_3				
mm		mm		mm		–			
65	75	51	120	128	190	**1213 E** **–**	FRB 14/120 –	**2213 E** **22213 CC/W33** **C 2213**	FRB 10/120 FRB 10/120 FRB 10/120
	75	58	140	138	200	**1313 E** **21313 E**	FRB 12.5/140 FRB 12.5/140	**2313** **22313 E** **–**	FRB 5/140 FRB 5/140 –
70	80	61	150	143	205	**1314** **21314 E**	FRB 13/150 FRB 13/150	**2314** **22314 E** **C 2314**	FRB 5/150 FRB 5/150 FRB 5/150
75	85	56	130	133	195	**1215** **–**	FRB 15.5/130 –	**2215 E** **22215 E** **C 2215**	FRB 12.5/130 FRB 12.5/130 FRB 12.5/130
	85	65	160	158	220	**1315** **21315 E**	FRB 14/160 FRB 14/160	**2315** **22315 E** **C 2315**	FRB 5/160 FRB 5/160 FRB 5/160
80	90	58	140	138	200	**1216** **–**	FRB 16/140 –	**2216 E** **22216 E** **C 2216**	FRB 12.5/140 FRB 12.5/140 FRB 12.5/140
	90	68	170	163	205	**1316** **21316 E**	FRB 14.5/170 FRB 14.5/170	**2316** **22316 E** **C 2316**	FRB 5/170 FRB 5/170 FRB 5/170

SNL plummer block housings for bearings with cylindrical bore d_a 85 – 130 mm



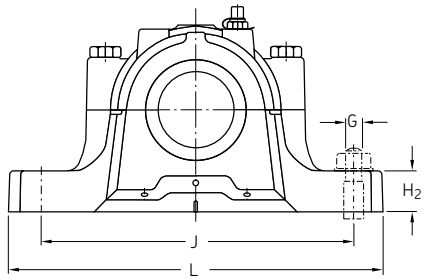
Double-lip seals G-design | Labyrinth seals S-design | Taconite seals ND-design | Oil seals U-design

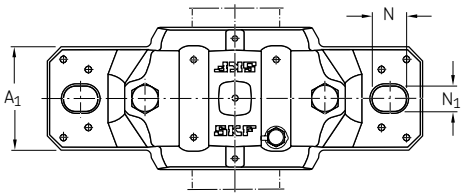
Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
85	125	90	183	95	32	260	320	28	22	20	9.50	SNL 217	TSN 217 G	ASNH 217
												SNL 217	TSN 217 A	ASNH 217
												SNL 517	4 FS 170	ASNH 517
												SNL 217	TSN 217 S	ASNH 217
												SNL 217	TSN 217 ND	ASNH 217
	160	110	218	112	40	320	380	32	26	24	17.6	SNL 520-617	TSN 317 G	ASNH 520-617
												SNL 520-617	TSN 317 A	ASNH 520-617
												SNL 520-617	TSN 317 S	ASNH 520-617
												SNL 520-617	TSN 317 ND	ASNH 520-617
												SNL 520-617 RU	TSN 317 U	ASNH 520-617 R
90	140	100	194	100	35	290	345	28	22	20	11.8	SNL 218	TSN 218 G	ASNH 218
												SNL 218	TSN 218 A	ASNH 218
												SNL 518-615	4 FS 170	ASNH 518-615
												SNL 218	TSN 218 S	ASNH 218
												SNL 218	TSN 218 ND	ASNH 218
95	175	120	242	125	45	350	410	32	26	24	22.0	SNL 522-619	TSN 319 A	ASNH 522-619
												SNL 522-619	TSN 319 S	ASNH 522-619
												SNL 522-619	TSN 319 ND	ASNH 522-619
												SNL 522-619 RU	TSN 319 U	ASNH 522-619 R
100	160	110	218	112	40	320	380	32	26	24	17.6	SNL 520-617	TSN 220 G	ASNH 520-617
												SNL 520-617	TSN 220 A	ASNH 520-617
												SNL 520-617	TSN 220 S	ASNH 520-617
												SNL 520-617	TSN 220 ND	ASNH 520-617
	185	120	271	140	45	350	410	32	26	24	26.2	SNL 524-620	TSN 320 A	ASNH 524-620
												SNL 524-620	TSN 320 S	ASNH 524-620
												SNL 524-620	TSN 320 ND	ASNH 524-620
												SNL 524-620 RU	TSN 320 U	ASNH 524-620 R
110	175	120	242	125	45	350	410	32	26	24	22.0	SNL 522-619	TSN 222 G	ASNH 522-619
												SNL 522-619	TSN 222 A	ASNH 522-619
												SNL 522-619	TSN 222 S	ASNH 522-619
												SNL 522-619	TSN 222 ND	ASNH 522-619
120	185	120	271	140	45	350	410	32	26	24	26.2	SNL 524-620	TSN 224 G	ASNH 524-620
												SNL 524-620	TSN 224 A	ASNH 524-620
												SNL 524-620	TSN 224 S	ASNH 524-620
												SNL 524-620	TSN 224 ND	ASNH 524-620
130	190	130	290	150	50	380	445	35	28	24	33.0	SNL 526	TSN 226 G	ASNH 526
												SNL 526	TSN 226 A	ASNH 526
												SNL 526	TSN 226 S	ASNH 526
												SNL 526	TSN 226 ND	ASNH 526

* For A_4 dimension see Table 4, page 466.

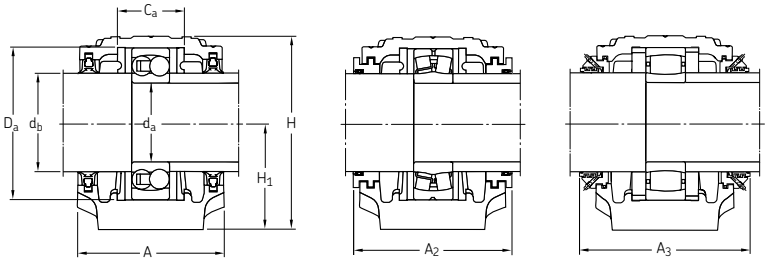
For seal details see pages 500 - 502.





Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
						Self-aligning ball bearing Spherical roller bearing	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Locating rings 2 per housing
d_a	d_b	C_a	D_a	A_2	A_3				
mm		mm		mm		–			
85	95	61	150	143	205	**1217** **–**	FRB 16.5/150 –	**2217** **22217 E** **C 2217**	FRB 12.5/150 FRB 12.5/150 FRB 12.5/150
	95	70	180	178	220	**1317** **21317 E**	FRB 14.5/180 FRB 14.5/180	**2317** **22317 E** **C 2317**	FRB 5/180 FRB 5/180 FRB 5/180
90	100	65	160	158	220	**1218** **22218 E**	FRB 17.5/160 FRB 12.5/160	**2218** **23218 CC/W33** **C 2218**	FRB 12.5/160 FRB 6.25/160 FRB 12.5/160
95	110	80	200	191	235	**1319** **21319 E**	FRB 17.5/200 FRB 17.5/200	**2319** **22319 E** **–**	FRB 6.5/200 FRB 6.5/200 –
100	115	70	180	178	240	**1220** **22220 E**	FRB 18/180 FRB 12/180	**2220** **23220 CC/W33** **C 2220**	FRB 12/180 FRB 4.85/180 FRB 12/180
	115	86	215	199	240	**1320** **21320 E**	FRB 19.5/215 FRB 19.5/215	**2320** **22320 E** **C 2320**	FRB 6.5/215 FRB 6.5/215 FRB 6.5/215
110	125	80	200	191	255	**1222** **22222 E**	FRB 21/200 FRB 13.5/200	**2222** **23222 CC/W33** **C 2222**	FRB 13.5/200 FRB 5.1/200 FRB 13.5/200
120	135	86	215	199	260	**1224** **22224 E**	FRB 22/215 FRB 14/215	**–** **23224 CC/W33** **C 3224**	– FRB 5/215 FRB 5/215
130	145	90	230	208	270	**1226** **22226 E**	FRB 22/230 FRB 13/230	**–** **23226 CC/W33** **C 2226**	– FRB 5/230 FRB 13/230

SNL plummer block housings
for bearings with cylindrical bore
d_a 140 – 160 mm



Double-lip seals
G-design

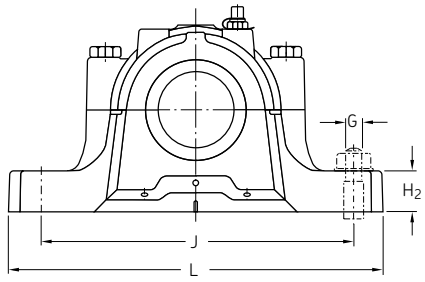
Labyrinth seals
S-design

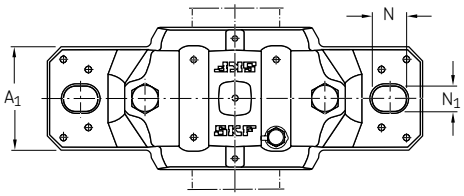
Taconite seals
ND-design

Note: These products are not sold as complete units. Each component must be ordered separately.

Shaft	Housing dimensions										Mass	Designations		
												Components		
d_a	A	A_1	H	H_1	H_2	J	L	N	N_1	G		Housing only	Seals	End cover
mm	mm										kg			
140	205	150	302	150	50	420	500	42	35	30	40.0	SNL 528	TSN 228 G	ASNH 528
												SNL 528	TSN 228 A	ASNH 528
												SNL 528	TSN 228 S	ASNH 528
												SNL 528	TSN 228 ND	ASNH 528
150	220	160	323	160	60	450	530	42	35	30	49.0	SNL 530	TSN 230 G	ASNH 530
												SNL 530	TSN 230 A	ASNH 530
												SNL 530	TSN 230 S	ASNH 530
												SNL 530	TSN 230 ND	ASNH 530
160	235	160	344	170	60	470	550	42	35	30	55.0	SNL 532	TSN 232 G	ASNH 532
												SNL 532	TSN 232 A	ASNH 532
												SNL 532	TSN 232 S	ASNH 532
												SNL 532	TSN 232 ND	ASNH 532

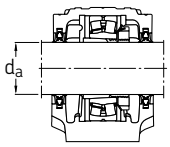
For seal details see pages 500 - 502.



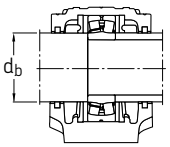


Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
						Self-aligning ball bearing Spherical roller bearing	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Locating rings 2 per housing
d_a	d_b	C_a	D_a	A_2	A_3				
mm		mm		mm		–			
140	155	98	250	223	290	**–** **22228 CC/W33**	– FRB 15/250	**–** **23228 CC/W33** **C 2228**	– FRB 5/250 FRB 15/250
150	165	106	270	241	305	**–** **22230 CC/W33**	– FRB 16.5/270 **C 2230**	**–** **23230 CC/W33** FRB 16.5/270	– FRB 5/270
160	175	114	290	254	320	**–** **22232 CC/W33**	– FRB 17/290	**–** **23232 CC/W33** **C 3232**	– FRB 5/290 FRB 5/290

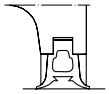
Sealing arrangements for
SNL plummer block housings
Size 505 – 510-608



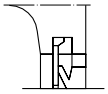
Housing series 5



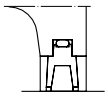
Housing series 2



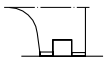
Design G
Split



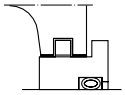
Design A
Unsplit



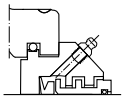
Design C
Split



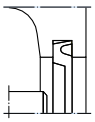
Design C
Felt Strips
Split



Design S
Unsplit

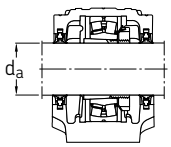


Design ND

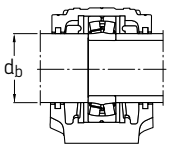


End Cover

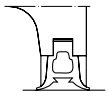
Housing Size	**Shaft dia.** d_a, d_b	**Seal sets** Design G 2 double-lip seals	Design A 2 V-ring seals	Loose V-ring	Design C 2 felt strips	Loose felt strips	Design S 2 labyrinth seals	Design ND	**End cover**
–	mm	–							–
505	20	TSN 505 G	TSN 505 A	CR 400200	TSN 505 C	–	2 x TSN 505 S	2 x TSN 505 ND	ASNH 505
	30	–	–	–	–	2 x FS 170	–	–	
205	20	TSN 605 G	TSN 605 A	CR 400200	TSN 605 C	–	2 x TSN 605 S	2 x TSN 605 ND	ASNH 506-605
	25	TSN 506 G	TSN 506 A	CR 400250	TSN 506 C	–	2 x TSN 506 S	2 x TSN 506 ND	
	30	TSN 205 G	–	–	–	–	2 x TSN 205 S	2 x TSN 205 ND	
	35	–	–	–	–	2 x FS 170	–	–	
506-605	20	TSN 605 G	TSN 605 A	CR 400200	TSN 605 C	–	2 x TSN 605 S	2 x TSN 605 ND	ASNH 506-605
	25	TSN 506 G	TSN 506 A	CR 400250	TSN 506 C	–	2 x TSN 506 S	2 x TSN 506 ND	
	30	TSN 305 G	TSN 305 A	–	–	–	2 x TSN 305 S	2 x TSN 305 ND	
	35	–	–	–	–	2 x FS 170	–	–	
206-305	25	TSN 606 G	TSN 606 A	CR 400250	TSN 606 C	–	2 x TSN 606 S	2 x TSN 606 ND	ASNH 507-606
	30	TSN 507 G	TSN 507 A	CR 400300	TSN 507 C	–	2 x TSN 507 S	2 x TSN 507 ND	
	35	TSN 206 G	TSN 206 A	CR 400350	–	–	2 x TSN 206 S	2 x TSN 206 ND	
	45	–	–	–	–	2 x FS 170	–	–	
507-606	25	TSN 606 G	TSN 606 A	CR 400250	TSN 606 C	–	2 x TSN 606 S	2 x TSN 606 ND	ASNH 507-606
	30	TSN 507 G	TSN 507 A	CR 400300	TSN 507 C	–	2 x TSN 507 S	2 x TSN 507 ND	
	35	TSN 306 G	TSN 306 A	CR 400350	–	–	2 x TSN 306 S	2 x TSN 306 ND	
	45	–	–	–	–	2 x FS 170	–	–	
207	40	TSN 509 G	TSN 509 A	CR 400400	TSN 509 C	–	2 x TSN 509 S	2 x TSN 509 ND	ASNH 509
	45	TSN 207 G	TSN 207 A	CR 400450	–	–	2 x TSN 207 S	2 x TSN 207 ND	
	55	–	–	–	–	4 x FS 170	–	–	
508-607	30	TSN 607 G	TSN 607 A	CR 400300	TSN 607 C	–	2 x TSN 607 S	2 x TSN 607 ND	ASNH 508-607
	35	TSN 508 G	TSN 508 A	CR 400350	TSN 508 C	–	2 x TSN 508 S	2 x TSN 508 ND	
	50	–	–	–	–	4 x FS 170	–	–	
208-307	35	TSN 608 G	TSN 608 A	CR 400350	TSN 608 C	–	2 x TSN 608 S	2 x TSN 608 ND	ASNH 510-608
	45	TSN 307 G	TSN 307 A	CR 400450	–	–	2 x TSN 307 S	2 x TSN 307 ND	
	50	TSN 208 G	TSN 208 A	CR 400500	–	–	2 x TSN 208 S	2 x TSN 208 ND	
	60	–	–	–	–	4 x FS 170	–	–	
509	40	TSN 509 G	TSN 509 A	CR 400400	TSN 509 C	–	2 x TSN 509 S	2 x TSN 509 ND	ASNH 509
	45	TSN 307 G	TSN 307 A	CR 400450	–	–	2 x TSN 307 S	2 x TSN 307 ND	
	55	–	–	–	–	4 x FS 170	–	–	
209	40	TSN 609 G	TSN 609 A	CR 400400	TSN 609 C	–	2 x TSN 609 S	2 x TSN 609 ND	ASNH 511-609
	50	TSN 511 G	TSN 511 A	CR 400500	TSN 511 C	–	2 x TSN 511 S	2 x TSN 511 ND	
	55	TSN 209 G	TSN 209 A	CR 400550	–	–	2 x TSN 209 S	2 x TSN 209 ND	
	65	–	–	–	–	4 x FS 170	–	–	
510-608	35	TSN 608 G	TSN 608 A	CR 400350	TSN 608 C	–	2 x TSN 608 S	2 x TSN 608 ND	ASNH 510-608
	45	TSN 510 G	TSN 510 A	CR 400450	TSN 510 C	–	2 x TSN 510 S	2 x TSN 510 ND	
	50	TSN 308 G	TSN 308 A	CR 400500	–	–	2 x TSN 308 S	2 x TSN 308 ND	
	60	–	–	–	–	4 x FS 170	–	–	



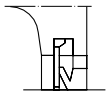
Housing series 5



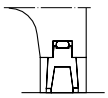
Housing series 2



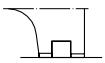
Design G
Split



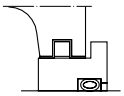
Design A
Unsplit



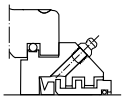
Design C
Split



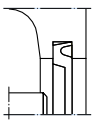
Design C
Felt strips
Split



Design S
Unsplit



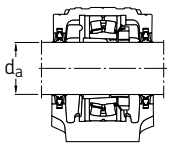
Design ND



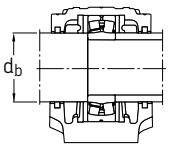
End cover

Housing Size	**Shaft dia.** d_a, d_b	**Seal sets** Design G 2 double-lip seals	Design A 2 V-ring seals	Loose V-ring	Design C 2 felt strips	Loose felt strips	Design S 2 labyrinth seals	Design ND	**End cover**
–	mm	–							–
210	45	TSN 610 G	TSN 610 A	CR 400450	TSN 610 C	–	2 x TSN 610 S	2 x TSN 610 ND	ASNH 512-610
	55	TSN 512 G	TSN 512 A	CR 400550	TSN 512 C	–	2 x TSN 512 S	2 x TSN 512 ND	
	60	TSN 210 G	TSN 210 A	CR 400600	–	–	2 x TSN 210 S	2 x TSN 210 ND	
	70	–	–	–	–	4 x FS 170	–	–	
511-609	40	TSN 609 G	TSN 609 A	CR 400400	TSN 609 C	–	2 x TSN 609 S	2 x TSN 609 ND	ASNH 511-609
	50	TSN 511 G	TSN 511 A	CR 400500	TSN 511 C	–	2 x TSN 511 S	2 x TSN 511 ND	
	55	TSN 309 G	TSN 309 A	CR 400550	–	–	2 x TSN 309 S	2 x TSN 309 ND	
	65	–	–	–	–	4 x FS 170	–	–	
211	50	TSN 611 G	TSN 611 A	CR 400500	TSN 611 C	–	2 x TSN 611 S	2 x TSN 611 ND	ASNH 513-611
	60	TSN 513 G	TSN 513 A	CR 400600	TSN 513 C	–	2 x TSN 513 S	2 x TSN 513 ND	
	65	TSN 211 G	TSN 211 A	CR 400650	–	–	2 x TSN 211 S	2 x TSN 211 ND	
	75	–	–	–	–	4 x FS 170	–	–	
512-610	45	TSN 610 G	TSN 610 A	CR 400450	TSN 610 C	–	2 x TSN 610 S	2 x TSN 610 ND	ASNH 512-610
	55	TSN 512 G	TSN 512 A	CR 400550	TSN 512 C	–	2 x TSN 512 S	2 x TSN 512 ND	
	60	TSN 310 G	TSN 310 A	CR 400600	–	–	2 x TSN 310 S	2 x TSN 310 ND	
	70	–	–	–	–	4 x FS 170	–	–	
212	55	TSN 612 G	TSN 612 A	CR 400550	TSN 612 C	–	2 x TSN 612 S	2 x TSN 612 ND	ASNH 515-612
	65	TSN 515 G	TSN 515 A	CR 400650	TSN 515 C	–	2 x TSN 515 S	2 x TSN 515 ND	
	70	TSN 212 G	TSN 212 A	CR 400700	–	–	2 x TSN 212 S	2 x TSN 212 ND	
	85	–	–	–	–	4 x FS 170	–	–	
513-611	50	TSN 611 G	TSN 611 A	CR 400500	TSN 611 C	–	2 x TSN 611 S	2 x TSN 611 ND	ASNH 513-611
	60	TSN 513 G	TSN 513 A	CR 400600	TSN 513 C	–	2 x TSN 513 S	2 x TSN 513 ND	
	65	TSN 311 G	TSN 311 A	CR 400650	–	–	2 x TSN 311 S	2 x TSN 311 ND	
	75	–	–	–	–	4 x FS 170	–	–	
213	60	TSN 613 G	TSN 613 A	CR 400600	TSN 613 C	–	2 x TSN 613 S	2 x TSN 613 ND	ASNH 516-613
	70	TSN 516 G	TSN 516 A	CR 400700	TSN 516 C	–	2 x TSN 516 S	2 x TSN 516 ND	
	75	TSN 213 G	TSN 213 A	CR 400750	–	–	2 x TSN 213 S	2 x TSN 213 ND	
	90	–	–	–	–	4 x FS 170	–	–	
515-612	55	TSN 612 G	TSN 612 A	CR 400550	TSN 612 C	–	2 x TSN 612 S	2 x TSN 612 ND	ASNH 515-612
	65	TSN 515 G	TSN 515 A	CR 400650	TSN 515 C	–	2 x TSN 515 S	2 x TSN 515 ND	
	70	TSN 312 G	TSN 312 A	CR 400700	–	–	2 x TSN 312 S	2 x TSN 312 ND	
	85	–	–	–	–	4 x FS 170	–	–	
215	65	TSN 615 G	TSN 615 A	CR 400650	TSN 615 C	–	2 x TSN 615 S	2 x TSN 615 ND	ASNH 518-615
	80	TSN 518 G	TSN 518 A	CR 400800	TSN 518 C	–	2 x TSN 518 S	2 x TSN 518 ND	
	85	TSN 215 G	TSN 215 A	CR 400850	–	–	2 x TSN 215 S	2 x TSN 215 ND	
	100	–	–	–	–	4 x FS 170	–	–	
516-613	60	TSN 613 G	TSN 613 A	CR 400600	TSN 613 C	–	2 x TSN 613 S	2 x TSN 613 ND	ASNH 516-613
	70	TSN 516 G	TSN 516 A	CR 400700	TSN 516 C	–	2 x TSN 516 S	2 x TSN 516 ND	
	75	TSN 313 G	TSN 313 A	CR 400750	–	–	2 x TSN 313 S	2 x TSN 313 ND	
	90	–	–	–	–	4 x FS 170	–	–	

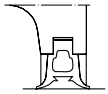
Sealing arrangements for
SNL plummer block housings
Size 216 – 532



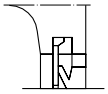
Housing series 5



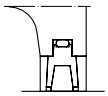
Housing series 2



Design G
Split



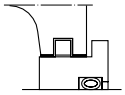
Design A
Unsplit



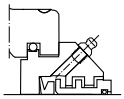
Design C
Split



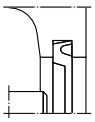
Design C
Felt strips
Split



Design S
Unsplit



Design ND



End cover

Housing Size	**Shaft dia.** d_a, d_b	**Seal sets** Design G 2 double-lip seals	Design A 2 V-ring seals	Loose V-ring	Design C 2 felt strips	Loose felt strips	Design S 2 labyrinth seals	Design ND	**End cover**
–	mm	–							–
216	90	TSN 216 G	TSN 216 A	CR 400900	–	–	2 x TSN 216 S	2 x TSN 216 ND	ASNH 216
	105	–	–	–	–	2 x FS 170	–	–	
517	75	TSN 517 G	TSN 517 A	CR 400750	TSN 517 C	–	2 x TSN 517 S	2 x TSN 517 ND	ASNH 517
	80	TSN 314 G	TSN 314 A	CR 400800	TSN 314 C	–	2 x TSN 314 S	2 x TSN 314 ND	
	95	–	–	–	–	2 x FS 170	–	–	
217	95	TSN 217 G	TSN 217 A	CR 400950	–	–	2 x TSN 217 S	2 x TSN 217 ND	ASNH 217
518-615	65	TSN 615 G	TSN 615 A	CR 400650	TSN 615 C	–	2 x TSN 615 S	2 x TSN 615 ND	ASNH 518-615
	80	TSN 518 G	TSN 518 A	CR 400800	TSN 518 C	–	2 x TSN 518 S	2 x TSN 518 ND	
	85	TSN 315 G	TSN 315 A	CR 400850	–	–	2 x TSN 315 S	2 x TSN 315 ND	
	100	–	–	–	–	2 x FS 170	–	–	
218	100	TSN 218 G	TSN 218 A	CR 401000	–	–	2 x TSN 218 S	2 x TSN 218 ND	ASNH 218
519-616	70	TSN 616 G	TSN 616 A	CR 400700	TSN 616 C	–	2 x TSN 616 S	2 x TSN 616 ND	ASNH 519-616
	85	TSN 519 G	TSN 519 A	CR 400850	TSN 519 C	–	2 x TSN 519 S	2 x TSN 519 ND	
	90	TSN 316 G	TSN 316 A	CR 400900	–	–	2 x TSN 316 S	2 x TSN 316 ND	
520-617	75	TSN 617 G	TSN 617 A	CR 400750	TSN 617 C	–	2 x TSN 617 S	2 x TSN 617 ND	ASNH 520-617
	90	TSN 520 G	TSN 520 A	CR 400900	TSN 520 C	–	2 x TSN 520 S	2 x TSN 520 ND	
	95	TSN 317 G	TSN 317 A	CR 400950	–	–	2 x TSN 317 S	2 x TSN 317 ND	
	115	TSN 220 G	TSN 220 A	CR 401100	–	–	2 x TSN 220 S	2 x TSN 220 ND	
522-619	85	TSN 619 G	TSN 619 A	CR 400850	TSN 619 C	–	2 x TSN 619 S	2 x TSN 619 ND	ASNH 522-619
	100	TSN 522 G	TSN 522 A	CR 401000	TSN 522 C	–	2 x TSN 522 S	2 x TSN 522 ND	
	110	–	TSN 319 A	CR 401100	–	–	2 x TSN 319 S	2 x TSN 319 ND	
	125	TSN 222 G	TSN 222 A	CR 401300	–	–	2 x TSN 222 S	2 x TSN 222 ND	
524-620	90	TSN 620 G	TSN 620 A	CR 400900	TSN 620 C	–	2 x TSN 620 S	2 x TSN 620 ND	ASNH 524-620
	110	TSN 524 G	TSN 524 A	CR 401100	TSN 524 C	–	2 x TSN 524 S	2 x TSN 524 ND	
	115	–	TSN 320 A	CR 401100	–	–	2 x TSN 320 S	2 x TSN 320 ND	
	135	TSN 224 G	TSN 224 A	CR 401300	–	–	2 x TSN 224 S	2 x TSN 224 ND	
526	115	TSN 526 G	TSN 526 A	CR 401100	TSN 526 C	–	2 x TSN 526 S	2 x TSN 526 ND	ASNH 526
	145	TSN 226 G	TSN 226 A	CR 401500	–	–	2 x TSN 226 S	2 x TSN 226 ND	
528	125	TSN 528 G	TSN 528 A	CR 401300	TSN 528 C	–	2 x TSN 528 S	2 x TSN 528 ND	ASNH 528
	155	TSN 228 G	TSN 228 A	CR 401500	TSN 228 C	–	2 x TSN 228 S	2 x TSN 228 ND	
530	135	TSN 530 G	TSN 530 A	CR 401300	TSN 530 C	–	2 x TSN 530 S	2 x TSN 530 ND	ASNH 530
	165	TSN 230 G	TSN 230 A	CR 401700	–	–	2 x TSN 230 S	2 x TSN 230 ND	
532	140	TSN 532 G	TSN 532 A	CR 401400	TSN 532 C	–	2 x TSN 532 S	2 x TSN 532 ND	ASNH 532
	175	TSN 232 G	TSN 232 A	CR 401700	–	–	2 x TSN 232 S	2 x TSN 232 ND	



Split pillow blocks

SNL 30 and SNL 31 (metric series)

SNL D 3134 TSSN

1 2 3 4

1. Basic design:

SNL

2. Material:

–	Housing of gray cast-iron
D	Housing of spheroidal graphite cast-iron (ductile-iron)

3. Housing size:

3036 to 30/500

3134 to 3196

4. Suffix:

–	Housing for bearing with adapter sleeve and through shaft
G	Housing for bearing with cylindrical bore and for stepped shaft
A	Housing for shaft end, with end cover at one side
TS	Housing with labyrinth seal(s)
TNF	Housing with taconite seal(s)
V	Housing with grease escape holes in base
T	Drilled and tapped hole at one side of cap to take grease nipple for relubrication of seals; nipple supplied with housing
TD	Drilled and tapped hole at both sides of cap to take grease nipple for relubrication of seals; two nipples supplied with housing
SN	Housing with drilled and tapped hole for sensor
TURT	Housing prepared for oil lubrication (spherical roller bearing) with seals
TURA	Housing prepared for oil lubrication (CARB bearing) with seals

Introduction

Fewer bearing replacements and less maintenance

Plummer (pillow) block housings have much to offer

The main benefit of split plummer block housings is their easy installation; pre-assembled shafts can be mounted in them. When the housing bases are attached to the base plate it is then only necessary to place the housing caps in position and to tighten the attachment bolts to complete the installation.

Split plummer block housings available on the market are mainly intended for self-aligning ball bearings, spherical roller bearings and CARB toroidal roller bearings. The housings can accommodate bearings in the 02, 03, 22, 23, 30, 31, 32, 39, 40 and 41 ISO Dimension Series. They can often be fitted with a variety of seals. Several designs and variants of split plummer block housings are available, making the use of tailored housings unnecessary and thus enabling cost-effective bearing arrangements to be made.

For many years SKF has been one of the leading suppliers of split plummer block housings – synonymous with operational reliability and quality.

SNL 30 and SNL 31 plummer (pillow) block housings have more to offer

SNL plummer block housings in the 30 and 31 series are also referred to as “Large SNL plummer block housings”.

These plummer block housings enable the bearings to achieve maximum bearing service life with less need for maintenance. This supports user efforts to further reduce maintenance costs. Among other enhancements, SNL housings are designed for easy alignment and handling during installation.

Another benefit is the choice of oil or grease lubrication for the bearings housed in SNL plummer blocks. A range of seals for oil lubrication and difficult environments provide trouble-free operation.

One basic design – many variants

Large SNL plummer block housings are intended for spherical roller bearings and CARB toroidal bearings. The housings are designed on a "building block" principle.This enables more possibilities when it comes to selecting the bearing designs, shaft, seals and the type of lubricant and/or lubrication delivery system.

A building block system

The basis of the original SNL plummer block housing system consists of a number of housings with the same basic design but in different sizes. By combining the housings with the different standard seals, a wide variety of variants, all belonging to the standard range, can besupplied to cover most applications.

SNL 30 and 31 series housings are available for shaft diameters ranging from 150 to 530 mm, inclusive.

The standard range also covers housings with drilled and tapped holes for lubrication fittings. Upon request, housings can be drilled for condition monitoring.

SNL 30 and 31 series plummer block housings are made of grey cast iron and demonstrate the same high strength as the earlier SD housings. Should, however, this strength be inadequate, dimensionally equivalent SNLD plummer block housings made of spheroidal graphite cast iron are available.

The large SNL and SNLD plummer block housings in the 31 series are dimensionally interchangeable with the earlier SD and SDD housings. However, for SNL and SNLD plummer block housings in the 30 series, one needs to check the bearing axial position, as the bearing center is off-set compared to the housing base center (dimension s in the tables). The housing boundary dimensions conform to ISO 113:1999.

Several sealing options

An important advantage of the SNL plummer block housings is that they can be fitted with a choice of seals. The standard seals supplied by SKF for the large SNL 30 and 31 series housings include labyrinth seals and heavy-duty "taconite" seals as well as end covers. Oil seals are also available and are supplied together with the housing, as the housing has to be modified to accomodate the seal.

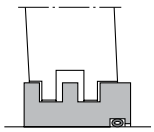


Seals

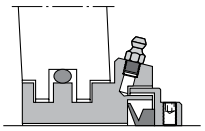
Standard seals

The standard seals available from SKF for large SNL housings (series SNL 30 and SNL 31) are one-piece labyrinth seals and the heavy-duty "taconite" seals. The seals are easy to install and are supplied separately.

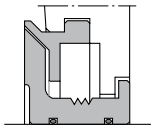
The standard seals as well as the seals for use with oil lubrication are presented in **Table 1**, which gives a comprehensive overview of the seal types, their design features and their suitability for various operating conditions. Detailed information on the various standard and special seals including properties and availability will be found on pages 507 to 508.



TS ..



TNF ..



TSD .. U[1)]

Table 1

Seal selection

	TSN..	TNF..	TSD..U[1)]
Properties			
Temperature, °F °C	-58° to +392° F (-50° to +200° C)	-40° to +212° F (-40° to +100° C)	-58° to +392° F (-50° to +200° C)
Peripheral speed	++	≤ 39 ft/sec (12 m/sec)	++
Misalignment, minutes	≤ 18	≤ 18	≤ 18
Grease relubrication	+	+	–
Oil lubrication	–	–	++
Low friction	++	+	++
Axial shaft displacement	+	+	–
Vertical arrangement	––	–	––
Sealing ability against			
Dust	+	++	+
Fine particulate contaminants	+	++	+
Coarse particulate contaminants	+	++	+
Abrasive contaminants	++	++	++
Liquids when sprayed	––	++	–
Direct sunlight	++	++	++

Symbols: ++ very suitable + suitable – limited suitability –– unsuitable

[1)] The oil seals are supplied together with housings prepared for oil lubrication. Oil seals can be ordered separately as spares only.

Labyrinth seals

The labyrinth rings **(Figure 1)** are made of cast-iron and have three radially arranged labyrinth steps which form a narrow sealing gap with the housing grooves.

Hollow O-ring cords of silicone rubber (supplied with the seals) ensure that the labyrinth rings, which are mounted with a loose fit, rotate with the shaft. Angular misalignments of the shaft up to approximately 18 minutes are permissible. The operating temperature range for the labyrinth seals is -58° to +392° F (-50° to +200° C).

When labyrinth seals are used, axial movement of the shaft relative to the housing is not limited.

The labyrinth seals are supplied individually. For bearing arrangements for through shafts, it is therefore necessary to order two rings. The labyrinth seal is identified by the prefix TS followed by the size identification, e.g. TS 34.

Taconite heavy-duty seals

Taconite is a very fine-grained mineral, which is extremely difficult to seal out. For bearing arrangements, which must operate under very arduous conditions (such as those encountered in mining), labyrinth seals, which can be relubricated, are recommended as grease enhances the sealing effect and extends the serviceability of the seals. SKF has developed a heavy-duty seal (which can seal out taconite, hence the name), which can be supplied for use with SNL housings.

The taconite seal design **(Figure 2)** is based on a labyrinth seal with the labyrinth stages arranged axially and fits the standard housings. A V-ring seal mounted on the shaft seals against the non-rotating part of the seal, which is inserted in the seal groove, prevents contaminants from penetrating to the bearing when the seal is relubricated. This grease is supplied via a grease nipple on the non-rotating part of the seal. Angular misalignments of the shaft of up to approximately 18 minutes are possible.

The permissible operating temperature range for the seal is between -40° to +212° F (-40° and +100° C). Please contact SKF for applications above 212° F (100° C). The rubber O-ring and V-ring limit the operating temperature to 212° F (100° C). However, SKF can supply high temperature O-rings and V-rings made of fluoro rubber for operation at higher temperatures.

The axial movement of the shaft relative to the housing is limited for this type of taconite seal to approximately ±2 mm for sizes from 150 up to 200 mm and ±4 mm for larger shaft diameters.

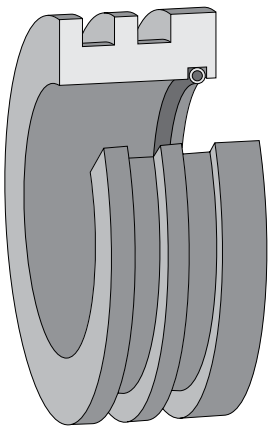
These seals are supplied individually so that for housings used on through shafts, it is necessary to order two seals. The seal is identified by the prefix TNF followed by the size identification, e.g. TNF 34.

Seals for oil lubrication

Special seals (oil seals) are required to prevent oil from escaping from the housing when oil lubrication is applied. For SNL housings, SKF has developed the non-rubbing seal of the U-design **(Figure 3)**. These U-seals require modified housings and comprise two parts: one which is stationary and fitted in the modified seal groove, and the other which is mounted on the shaft and rotates. The hollow O-ring cords of silicone rubber inserted between the labyrinth ring and the shaft allows the ring, which is mounted with a loose fit, to rotate with the shaft, and oil cannot escape along the shaft. These oil seals do not limit axial movement of the shaft relative to the housing.

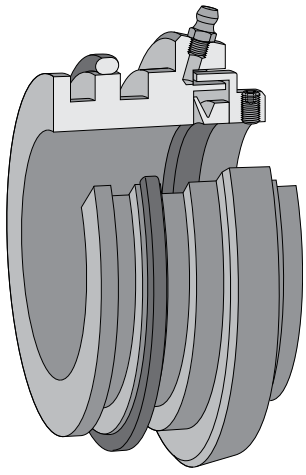
The modified SNL housing is supplied together with the seals as a unit. The housings with seals are identified by the suffix TURT (TURA for CARB bearings) e.g. SNL 3134 TURT. The seal itself is designated TSD .. U.

Figure 1



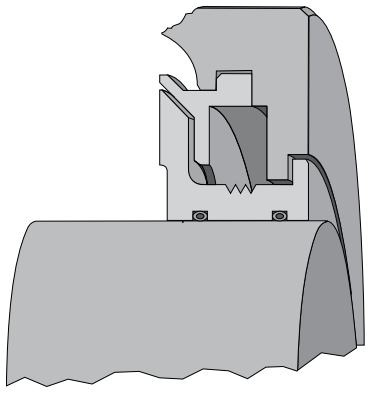
Labyrinth seal

Figure 2



Taconite heavy-duty seal

Figure 3



Oil seal

Seals

Special seals

In applications where, for some reason the standard seals cannot be used, special seals must be fitted. The SNL housings can be supplied without seals for such applications and are relatively easy to equip with special seals. It is recommended that housings of series SNL .. G are used rather than those of series SNL as they have a comparatively larger bore at the shaft entrance. There is therefore more room to accommodate a seal, so that there are more choices for seal design.

Special seals are not normally supplied by SKF. Therefore, the relevant housing dimensions are given in **Tables 2 and 3**.

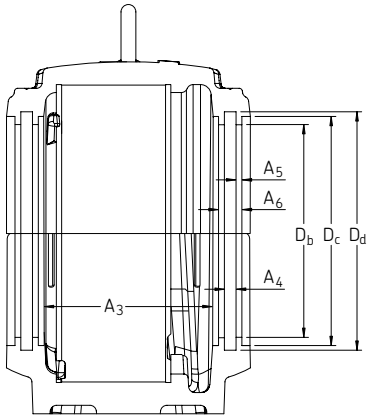


Table 2

Sealing groove dimensions

Housing	Dimensions						
Size	A_3	A_4	A_5	A_6	D_b	D_c	D_d
–	mm						
SNL 3036	158	11	5.5	22	181.2	196.4	205.2
SNL 3038	168	11	5.5	22	191.4	206.4	215.4
SNL 3040	186	11	5.5	22	201.4	216.4	225.4
SNL 3044	206	11	5.5	22	221.4	236.4	245.4
SNL 3048	214	11	5.5	22	241.4	256.4	265.4
SNL 3052	231	11	5.5	22	261.6	276.6	285.6
SNL 3056	249	11	5.5	22	281.6	296.6	305.6
SNL 3060	249	11	5.5	22	301.6	316.6	325.6
SNL 3064	279	11	5.5	22	321.8	336.8	345.8
SNL 3068	299	11	5.5	22	342.4	357.4	366.4
SNL 3072	297	11	5.5	22	362.4	377.4	386.4
SNL 3076	328	11	5.5	22	382.4	397.4	406.4
SNL 3080	328	11	5.5	22	402.8	417.8	426.8
SNL 3084	328	11	5.5	22	422.8	437.8	446.8
SNL 3088	358	11	5.5	22	442.8	457.8	466.8
SNL 3092	388	11	5.5	22	463	478	487
SNL 3096	388	11	5.5	22	483	498	507
SNL 30/500	388	11	5.5	22	503	518	527
SNL 30/530	398	11	5.5	22	533	548	557
SNL 3134	159	11	5.5	22	171.2	186.4	195.2
SNL 3136	169	11	5.5	22	181.2	196.4	205.2
SNL 3138	187	11	5.5	22	191.4	206.4	215.4
SNL 3140	207	11	5.5	22	201.4	216.4	225.4
SNL 3144	215	11	5.5	22	221.4	236.4	245.4
SNL 3148	231	11	5.5	22	241.4	256.4	265.4
SNL 3152	249	11	5.5	22	261.6	276.6	285.6
SNL 3156	249	11	5.5	22	281.6	296.6	305.6
SNL 3160	280	11	5.5	22	301.6	316.8	325.6
SNL 3164	300	11	5.5	22	321.8	336.8	345.8
SNL 3168	328	11	5.5	22	342.4	357.4	366.4
SNL 3172	328	11	5.5	22	362.4	377.4	386.4
SNL 3176	328	11	5.5	22	382.4	397.4	406.4
SNL 3180	358	11	5.5	22	402.8	417.8	426.8
SNL 3184	388	11	5.5	22	422.8	437.8	446.8
SNL 3188	388	11	5.5	22	442.8	457.8	466.8
SNL 3192	398	11	5.5	22	463	478	487
SNL 3196	398	11	5.5	22	483	498	507

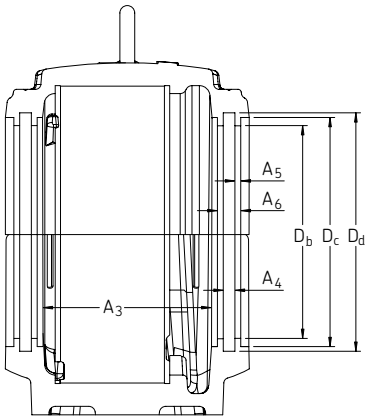
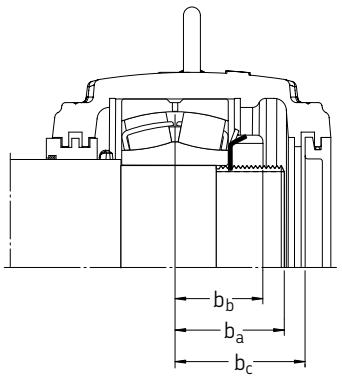


Table 3

Sealing groove dimensions

Housing	Dimensions						
Size	A_3	A_4	A_5	A_6	D_b	D_c	D_d
–	mm						
SNL 3036 G	156	11	5.5	22	221.4	236.4	245.4
SNL 3038 G	166	11	5.5	22	221.4	236.4	245.4
SNL 3040 G	184	11	5.5	22	241.4	256.4	265.4
SNL 3044 G	203	11	5.5	22	261.6	276.6	285.6
SNL 3048 G	211	11	5.5	22	281.6	296.6	305.6
SNL 3052 G	228	11	5.5	22	301.6	316.8	325.6
SNL 3056 G	247	11	5.5	22	321.8	336.8	345.8
SNL 3060 G	247	11	5.5	22	341.8	356.8	365.8
SNL 3064 G	277	11	5.5	22	361.8	376.8	385.8
SNL 3068 G	295	11	5.5	22	381.8	396.8	405.8
SNL 3072 G	293	11	5.5	22	401.8	416.8	425.8
SNL 3076 G	325	11	5.5	22	422.8	437.8	446.8
SNL 3080 G	325	11	5.5	22	463	478	487
SNL 3084 G	325	11	5.5	22	483	498	507
SNL 3088 G	354	11	5.5	22	503	518	527
SNL 3092 G	384	11	5.5	22	533	548	557
SNL 3096 G	384	11	5.5	22	533	548	557
SNL 30/500 G	384	11	5.5	22	563	578	587
SNL 30/530 G	392	11	5.5	22	603	618	627
SNL 3134 G	157	11	5.5	22	201.4	216.4	225.4
SNL 3136 G	166	11	5.5	22	221.4	236.4	245.4
SNL 3138 G	185	11	5.5	22	221.4	236.4	245.4
SNL 3140 G	204	11	5.5	22	241.4	256.4	265.4
SNL 3144 G	213	11	5.5	22	261.6	276.6	285.6
SNL 3148 G	230	11	5.5	22	281.6	296.6	305.6
SNL 3152 G	248	11	5.5	22	301.6	316.8	325.6
SNL 3156 G	248	11	5.5	22	321.8	336.8	345.8
SNL 3160 G	278	11	5.5	22	341.8	356.8	365.8
SNL 3164 G	297	11	5.5	22	361.8	376.8	385.8
SNL 3168 G	325	11	5.5	22	382.4	397.4	406.4
SNL 3172 G	325	11	5.5	22	402.8	417.8	426.8
SNL 3176 G	325	11	5.5	22	422.8	437.8	446.8
SNL 3180 G	354	11	5.5	22	463	478	487
SNL 3184 G	384	11	5.5	22	483	498	507
SNL 3188 G	384	11	5.5	22	503	518	527
SNL 3192 G	395	11	5.5	22	533	548	557
SNL 3196 G	394	11	5.5	22	563	578	587

End covers



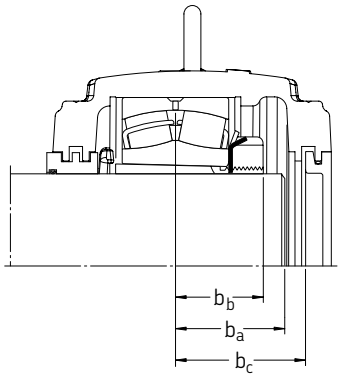


Table 4

Permissible length of shaft end

Housing	Bearing	Dimensions			
Size		b_a	b_a	b_b	b_c
		min	max[1]		
–	–	mm			
SNL 3036	23036	72	102	66.5	107.5
	24036	85	102	79.5	107.5
SNL 3038	23038	73	108	68	113.5
	24038	86	108	80.5	113.5
SNL 3040	23040	78	112	72.5	117.5
	24040	91	112	86	117.5
SNL 3044	23044	91	122	86	127.5
	24044	105	122	100	127.5
SNL 3048	23048	97	128	92	133.5
	24048	110	128	105	133.5
SNL 3052	23052	103	136	98	141.5
	24052	121	136	116	141.5
SNL 3056	23056	108	146	103	151.5
	24056	125	146	120	151.5
SNL 3060	23060	118	149	113	154.5
	24060	139	149	134	154.5
SNL 3064	23064	121	170	115.5	175.5
	24064	140	170	135	175.5
SNL 3068	23068	130	181	124.5	186.5
	24068	153	181	148	186.5
SNL 3072	23072	130	181	125	186.5
	24072	153	181	148	186.5
SNL 3076	23076	134.5	197	129.5	202.5
	24076	157	197	152	202.5
SNL 3080	23080	145	203	140	208.5
	24080	171	203	166	208.5
SNL 3084	23084	146	203	141	208.5
	24084	171	203	166	208.5
SNL 3088	23088	160.5	218	155.5	223.5
	24088	188	218	183	223.5
SNL 3092	23092	163.5	238	158.5	243.5
	24092	191	238	186	243.5
SNL 3096	23096	164.5	238	159.5	243.5
	24096	191	238	186	243.5
SNL 30/500	230/500	173.5	238	168.5	243.5
	240/500	199	238	194	243.5
SNL 30/530	230/530	187.5	243	182.5	248.5
	240/530	220	243	215	248.5
SNL 3134	23134	78	102	73	107.5
SNL 3136	23136	83	108	78	113.5
SNL 3138	23138	88	112	83	117.5
SNL 3140	23140	93	122	88	127.5
SNL 3144	23144	100	128	95	133.5
SNL 3148	23148	106	136	101	141.5
SNL 3152	23152	116	146	111	151.5
SNL 3156	23156	119	149	114	154.5
SNL 3160	23160	138	170	133	175.5
SNL 3164	23164	149	181	144	186.5
SNL 3168	23168	172	197	167	202.5
SNL 3172	23172	176	203	171	208.5
SNL 3176	23176	179	203	174	208.5
SNL 3180	23180	187	218	182	223.5
SNL 3184	23184	207	238	202	243.5
SNL 3188	23188	208	238	203	243.5
SNL 3192	23192	220	243	215	248.5
SNL 3196	23196	224	243	219	248.5

[1] For non-locating arrangements, which are not mounted centrally in the bearing seating, the value of $b_{a\,max}$ must be correspondingly reduced

End covers

For housings mounted at the ends of shafts, the one opening should be fitted with an end cover, which fits into the seal groove **(Figure 4)**. Details of the permissible length of the shaft end can be found in **Table 4**. The end covers are of cast-iron and are inserted with a hollow O-ring cord of silicone rubber in the seal groove in the housing. The end covers are suitable for operating temperatures in the range -58° to + 392° F (–50° to +200° C).

The standard end cover is designated by the prefix ETS followed by the housing size identification, e.g. ETS 34. End covers for oil lubricated SNL housings are identified by suffix R, e.g. ETS 34 R.

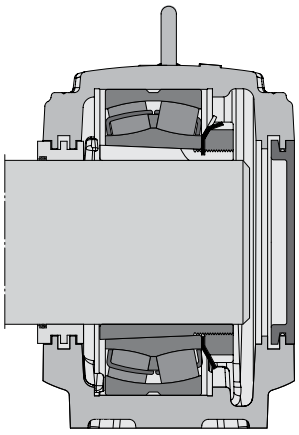
Locating rings

The bearing seating in the housing is sufficiently wide to enable the bearing to be displaced axially. The locating or held bearing **must** always be fixed axially in position in the housing bore by locating rings at both sides **(Figure 5)**.

CARB bearings are non-locating bearings and cannot take axial loads. Since axial displacement is accommodated within a CARB bearing (together with any misalignment), it is necessary to locate the outer ring axially in its seating by inserting locating rings at each side of the bearing.

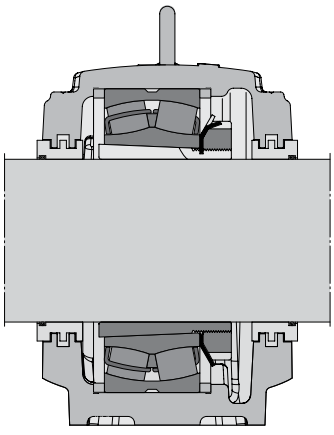
The locating rings are identified by the prefix FRB followed by figures giving the width/outside diameter in millimeters, e.g. FRB 10/280.

Figure 4



Housing with end cover

Figure 5



Housing with locating rings at both sides of bearing

Lubrication

SNL plummer block housings are designed so that the bearings can be lubricated with grease or oil, although grease lubrication is generally preferred. The lubricant should be selected with reference to the operating conditions.

Grease lubrication

In the majority of applications, the amount of grease applied to the SNL housings when mounting (initial fill) or after an inspection is adequate until the next planned inspection.

Certain operating conditions, e.g. high speeds, high temperatures or heavy loads, may mean that more frequent relubrication is necessary. **Table 5** gives guideline values for the grease quantities to be applied for the first fill. Markings in each corner inside the base give an indication of the grease level for the initial fill **(Figure 6)**.

There are three drilled and tapped holes for a grease nipple AH 1/8-27 PTF in the housing: two in the cap and one in the base. These holes are closed by metallic plugs. The two markings at the outer sides of the central ridge indicate the position for lubrication holes for the seals.

A grease nipple AH 1/8-27 PTF is supplied with the housing. The grease nipple kit also contains a plastic grease nipple protector, a grease nipple M1 G 1/8 and an adapter LAPN 1/8. This adapter transforms the standard drilled 1/8-27 NPSF thread to a G 1/4 which enables the use of grease lubricators such as SKF SYSTEM 24.

It is recommended that spherical roller bearings having a lubrication groove and three holes in the outer ring (designation suffix W33) be lubricated via this feature **(Figure 7)**. In this case the relubrication hole in the base or in the center of the cap should be used.

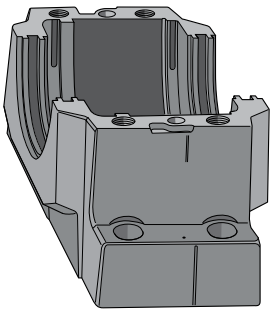
Table 5

Grease quantities

Housing Size	Grease quantity First fill[1)]
–	kg
SNL 3036	1.2
SNL 3038	1.5
SNL 3040	2.0
SNL 3044	2.7
SNL 3048	3.0
SNL 3052	3.9
SNL 3056	4.9
SNL 3060	5.2
SNL 3064	7.0
SNL 3068	8.7
SNL 3072	10.9
SNL 3076	10.9
SNL 3080	11.7
SNL 3084	11.8
SNL 3088	14.4
SNL 3092	18.8
SNL 3096	18.5
SNL 30/500	20.0
SNL 30/530	21.5
SNL 3134	1.1
SNL 3136	1.4
SNL 3138	1.8
SNL 3140	2.3
SNL 3144	2.7
SNL 3148	3.4
SNL 3152	4.3
SNL 3156	4.4
SNL 3160	6.2
SNL 3164	7.7
SNL 3168	9.4
SNL 3172	9.7
SNL 3176	9.6
SNL 3180	12.2
SNL 3184	14.9
SNL 3188	16.2
SNL 3192	17.4
SNL 3196	17.2

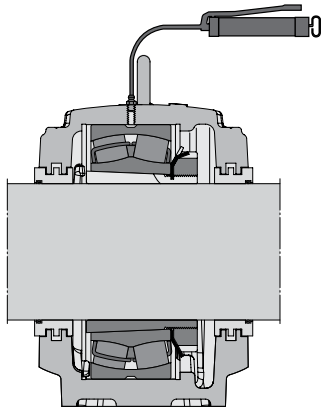
1) Fills approximately 40 % of the free space in the housing

Figure 6



Grease level markings for first fill

Figure 7



Lubricating the bearing via the outer ring

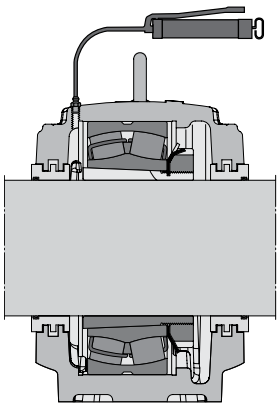
It should be noted that when spherical roller bearings are to be relubricated via the outer ring, they should be rotated. If outer ring relubrication is not possible or if CARB bearings are used, the standard grease nipple supplied with the housing should be inserted in the hole on the side of the cap and used for this purpose **(Figure 8)**. If it is desired to use a grease nipple other than that supplied with the housing, adapters are available which make a reworking of the available drilled and tapped hole unnecessary.

Where the bearings are mounted on adapter sleeves, the grease should be introduced at the side opposite to the lock nut of the sleeve.

If frequent relubrication is required, it is advisable to provide the housing with grease escape holes **(Figure 9)** through which excess grease can escape. Recommended dimensions will be found in **Table 6**. SNL housings with grease escape holes in the base can be supplied. This housing design is identified by the suffix V, e.g. SNL 3134 V.

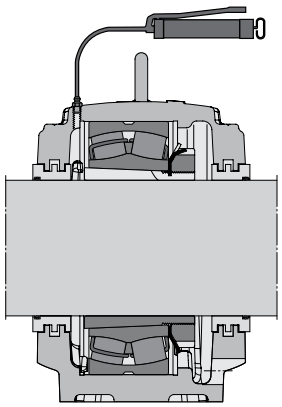
SNL housings can also be equipped with grease lubricators. Recommended are the SKF SYSTEM 24 lubricators (e.g. LAGD 125/WA2), which provide a reliable alternative to manual relubrication.

Figure 8



Lubricating the bearing from the side

Figure 9



Housing with grease escape hole

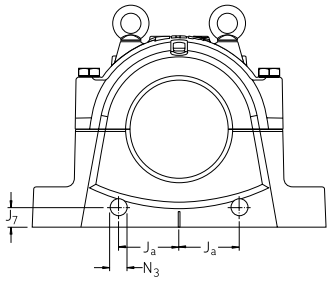


Table 6

Recommended dimensions for grease escape holes

Housing Size	Dimensions J_a	J_7	N_3
–	mm		
SNL 3036	105	34	30
SNL 3038	110	38	30
SNL 3040	120	36	30
SNL 3044	120	36	30
SNL 3048	130	42	40
SNL 3052	145	43	40
SNL 3056	150	44	40
SNL 3060	165	51	40
SNL 3064	180	53	40
SNL 3068	180	53	40
SNL 3072	180	53	40
SNL 3076	185	51	40
SNL 3080	220	51	40
SNL 3084	220	53	40
SNL 3088	230	58	40
SNL 3092	260	58	40
SNL 3096	260	58	40
SNL 30/500	260	58	40
SNL 30/530	280	58	40
SNL 3134	105	34	30
SNL 3136	110	38	30
SNL 3138	120	36	30
SNL 3140	120	36	30
SNL 3144	130	42	40
SNL 3148	145	43	40
SNL 3152	150	44	40
SNL 3156	165	51	40
SNL 3160	180	53	40
SNL 3164	180	53	40
SNL 3168	185	51	40
SNL 3172	220	51	40
SNL 3176	220	53	40
SNL 3180	230	58	40
SNL 3184	260	58	40
SNL 3188	260	58	40
SNL 3192	280	58	40
SNL 3196	280	58	40

The dimensions are those recommended when the standard grease nipple AH 1/8-27 PTF is used (supplied with the housing) but can also be applied if nipples having threads R 1/8, KR 1/8, M 10x1 or G 1/4 (with adapter LAPN 1/8) are used. The recommendations also apply if grease dispensers, e.g. SKF SYSTEM 24, are used.

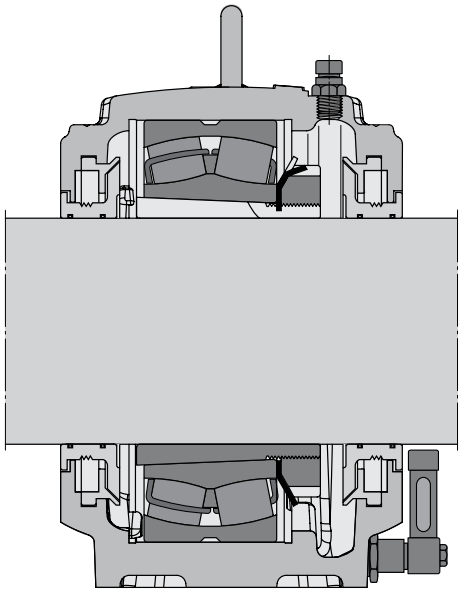
Lubrication

Oil lubrication

The new SNL 30 and SNL 31 housings can be used for oil lubrication at relatively high speeds. When using oil, however, the specially developed U-design seals should be incorporated to avoid oil loss from the housing **(Figure 10)**. These seals are described on page 506. In order for these seals to be used, the housing must be modified so that SNL housings for oil lubrication are only supplied, complete with seals.

Oil lubricated SNL housings can also be equipped with oil levellers, LAHD series, which are designed for automatic adjustment of the optimal oil lubrication level within the bearing housing.

Figure 10



Housing for oil lubrication

Mounting

SNL housings together with SKF bearings are robust and operationally reliable bearing arrangements which have long lives. However, if they are to achieve their full potential and not fail prematurely, they must be properly mounted. **Incorrect procedures or unsuitable tools can influence life negatively**.

When mounting the housings it should be remembered that the housings are asymmetrical internally and therefore the bearings are not always mounted in the center of the housing.

Vertical markings on the housing base end faces indicate the location of the center of the bearing seating.

Mounting the bearing

The bearings can be mounted either on a tapered seating – normally for SNL housings in the form of an adapter sleeve – or on a cylindrical seating. When a bearing is correctly mounted on a sleeve there will be interference fits between the inner ring, sleeve and shaft. The degree of interference is determined by how far the bearing is driven up on the sleeve and either the internal clearance reduction or the axial drive-up distance can be used as a measure. The clearance reduction in spherical roller bearings can be measured using a feeler gauge, or the SKF drive-up method can be used.

For CARB bearings either the clearance reduction or the axial drive-up distance should be measured. When using a feeler gauge to measure clearance reduction, it is important that the inner and outer rings of the bearing are not displaced with respect to each other. The SKF drive-up method can also be applied.

Adapter sleeves with the designation OH .. H in the product tables indicate that the sleeves are provided with the necessary ducts to enable the bearings to be mounted using the oil injection method. Oil is supplied to the nut side of the sleeve.

Bearings with cylindrical bore are normally mounted with an interference fit on the shaft. Appropriate shaft tolerances should be selected. The recommendations applying to spherical roller bearings also apply to CARB bearings.

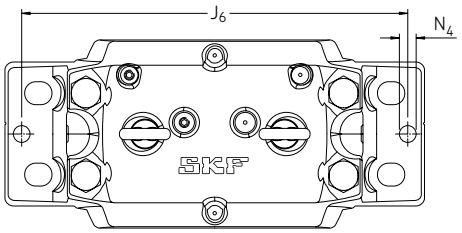


Table 7

Position and size of dowel pin holes

Housing	Dimensions		Housing	Dimensions	
Size	J_6	N_4 max	Size	J_6	N_4 max
–	mm		–	mm	
SNL 3036	470	20	**SNL 3134**	470	20
SNL 3038	490	20	**SNL 3136**	490	20
SNL 3040	520	20	**SNL 3138**	520	20
SNL 3044	560	20	**SNL 3140**	560	20
SNL 3048	590	20	**SNL 3144**	590	20
SNL 3052	650	20	**SNL 3148**	650	20
SNL 3056	720	20	**SNL 3152**	720	20
SNL 3060	740	20	**SNL 3156**	740	20
SNL 3064	770	25	**SNL 3160**	770	25
SNL 3068	820	25	**SNL 3164**	820	25
SNL 3072	820	25	**SNL 3168**	880	25
SNL 3076	880		**SNL 3172**	920	30
SNL 3080	920		**SNL 3176**	960	30
SNL 3084	960		**SNL 3180**	1 020	35
SNL 3088	1 020		**SNL 3184**	1 070	35
SNL 3092	1 070		**SNL 3188**	1 120	35
SNL 3096	1 070		**SNL 3192**	1 160	40
SNL 30/500	1 120		**SNL 3196**	1 210	40
SNL 30/530	1 210				

Support surface for housing base

To guarantee long bearing service life, it is recommended that the support surface for the housing is finished to $R_a \leq 492$ µin (12.5 µm). The flatness tolerance should be to IT7. For moderate demands IT8 may be satisfactory.

Dowel pins

SNL housings are designed for loads acting vertically to the housing base support. If they are to be subjected to moderate or heavy loads acting parallel to the base support, a stop should be provided, or the housing should be pinned to its support. Recommendations for the position and size of holes to take dowel pins are given in **Table 7**.

Attachment bolts

It is recommended that hexagon-headed bolts to strength class 8.8 according to the European Standard EN 24014 be used. If the load does not act vertically to the base, it may be necessary to use stronger, class 10.9 bolts. Details of the appropriate tightening torques for the bolts to class 8.8 are given in **Table 9** on page 517.

Load carrying ability

SNL plummer block housings are intended for loads acting vertically towards the base plate (support). If loads acting in other directions occur, checks should be made to ensure that the magnitude of the load is permissible for the housing, the bolts joining the housing cap and base, and for the attachment bolts.

Load carrying ability of the housing

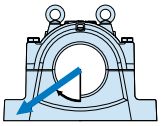
Guideline values for the breaking load P of the housing for various load directions are given in **Table 8**. Using these values and a safety factor selected with respect to the operating conditions, the permissible load for the housing can be calculated. In general engineering a safety factor of 6 is often used.

For special purposes where extra strength and resistance to shock loads are required, SKF supplies as standard a range of spheroidal graphite cast-iron housings. Spheroidal graphite cast-iron housings are designated SNLD followed by the size identification, e.g. SNLD 3134. For housings made of spheroidal graphite cast-iron, the values of P in **Table 8** should be multiplied by 1.8.

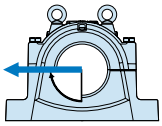
It is important for the load carrying ability of the housing that the bolts joining cap and base are properly tightened in accordance with the values given in **Table 9**. The axial load carrying capacity of the housing is approximately 65% of $P_{180°}$. For load angles between 55 and 120° as well as for axial loads, if the load acting parallel to the base plate (support surface) exceeds 5% of $P_{180°}$, the housing should be pinned to the support or a stop should be provided in the direction of the load.

Load carrying ability of bolts

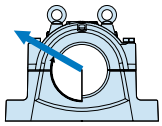
SNL plummer block housings are supplied with cap bolts (to join cap and base) to strength class 8.8 as standard. The guideline values for the yield point Q for the cap bolts are given in **Table 9** for various load directions as well as the corresponding maximum radial loads F.



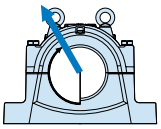
$P_{55°}$



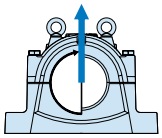
$P_{90°}$



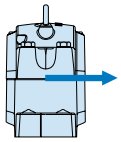
$P_{120°}$



$P_{150°}$



$P_{180°}$

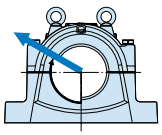


P_a

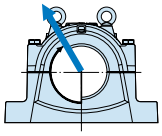
Table 8

Breaking loads for SNL plummer block housing

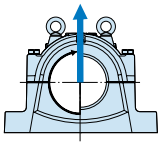
Housing	Breaking loads for SNL housing					
Size	$P_{55°}$	$P_{90°}$	$P_{120°}$	$P_{150°}$	$P_{180°}$	P_a
–	kN					
SNL 3036	2100	1000	760	680	850	550
SNL 3038	2400	1150	850	760	950	620
SNL 3040	2700	1300	1000	880	1100	710
SNL 3044	3200	1600	1100	1000	1300	840
SNL 3048	4000	1900	1400	1300	1600	1000
SNL 3052	4200	2000	1500	1400	1700	1100
SNL 3056	4700	2300	1700	1500	1900	1200
SNL 3060	5000	2400	1800	1600	2000	1300
SNL 3064	6000	2900	2200	1900	2400	1500
SNL 3068	7000	3400	2500	2200	2800	1800
SNL 3072	7000	3400	2500	2200	2800	1800
SNL 3076	7 500	3 600	2 600	2 300	3 000	1 900
SNL 3080	7 700	3 600	2 700	2 400	3 000	2 000
SNL 3084	8 000	3 900	2 900	2 500	3 200	2 100
SNL 3088	8 700	4 200	3 100	2 700	3 500	2 200
SNL 3092	9 600	4 600	3 400	3 000	3 800	2 400
SNL 3096	9 600	4 600	3 400	3 000	3 800	2 400
SNL 30/500	10 000	4 800	3 600	3 100	4 000	2 500
SNL 30/530	11 200	5 400	4 000	3 500	4 400	2 800
SNL 3134	2100	1000	760	680	850	550
SNL 3136	2400	1150	850	760	950	620
SNL 3138	2700	1300	1000	880	1100	710
SNL 3140	3200	1600	1100	1000	1300	840
SNL 3144	4000	1900	1400	1300	1600	1000
SNL 3148	4200	2000	1500	1400	1700	1100
SNL 3152	4700	2300	1700	1500	1900	1200
SNL 3156	5000	2400	1800	1600	2000	1300
SNL 3160	6000	2900	2200	1900	2400	1500
SNL 3164	7000	3400	2500	2200	2800	1800
SNL 3168	7 500	3 600	2 600	2 300	3 000	1 900
SNL 3172	7 700	3 600	2 700	2 400	3 000	2 000
SNL 3176	8 000	3 900	2 900	2 500	3 200	2 100
SNL 3180	8 700	4 200	3 100	2 700	3 500	2 200
SNL 3184	9 600	4 600	3 400	3 000	3 800	2 400
SNL 3188	10 000	4 800	3 600	3 100	4 000	2 500
SNL 3192	10 700	5 200	3 800	3 300	4 200	2 700
SNL 3196	11 200	5 400	4 000	3 500	4 400	2 800



$Q_{120°}$
$F_{120°}$



$Q_{150°}$
$F_{150°}$



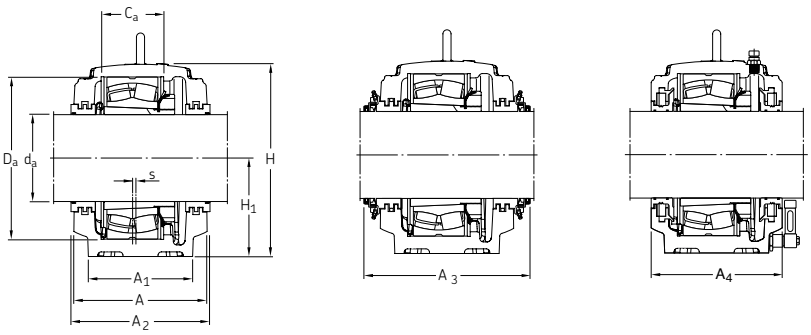
$Q_{180°}$
$F_{180°}$

Table 9

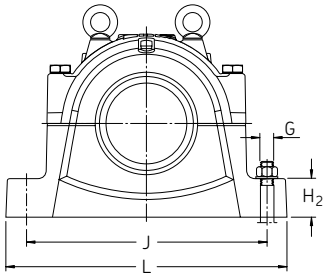
Load carrying ability and tightening torque for cap bolts and attachment bolts

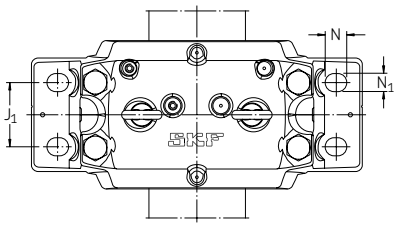
Housing	Cap bolts								Attachment bolts	
Size	Yield point for four bolts			Maximum load for four bolts			Tightening torque	Designation to EN 24014	Size	Tightening torque
	$Q_{120°}$	$Q_{150°}$	$Q_{180°}$	$F_{120°}$	$F_{150°}$	$F_{180°}$				
–	kN			kN			Nm	–	–	Nm
SNL 3036	1800	1040	900	760	440	380	350	M 24x140	M 24	665
SNL 3038	1800	1040	900	760	440	380	350	M 24x140	M 24	665
SNL 3040	1800	1040	900	760	440	380	350	M 24x150	M 24	665
SNL 3044	1800	1040	900	760	440	380	350	M 24x160	M 30	1 310
SNL 3048	1800	1040	900	760	440	380	350	M 24x160	M 30	1 310
SNL 3052	2860	1650	1 430	1 240	720	620	400	M 30x180	M 30	1 310
SNL 3056	2860	1650	1 430	1 240	720	620	400	M 30x200	M 36	2 280
SNL 3060	2860	1650	1 430	1 240	720	620	400	M 30x200	M 36	2 280
SNL 3064	2860	1650	1 430	1 240	720	620	400	M 30x220	M 36	2 280
SNL 3068	2860	1650	1 430	1 240	720	620	400	M 30x220	M 36	2 280
SNL 3072	2860	1650	1 430	1 240	720	620	400	M 30x220	M 36	2 280
SNL 3076	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 36	2 280
SNL 3080	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 36	2 280
SNL 3084	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 36	2 280
SNL 3088	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 42	3 640
SNL 3092	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x280	M 42	3 640
SNL 3096	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x280	M 42	3 640
SNL 30/500	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x280	M 42	3 640
SNL 30/530	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x280	M 48	5 450
SNL 3134	1 800	1 040	900	760	440	380	350	M 24x140	M 24	665
SNL 3136	1 800	1 040	900	760	440	380	350	M 24x140	M 24	665
SNL 3138	1 800	1 040	900	760	440	380	350	M 24x150	M 24	665
SNL 3140	1 800	1 040	900	760	440	380	350	M 24x160	M 30	1 310
SNL 3144	1 800	1 040	900	760	440	380	350	M 24x160	M 30	1 310
SNL 3148	2 860	1 650	1430	1240	720	620	400	M 30x180	M 30	1 310
SNL 3152	2 860	1 650	1430	1240	720	620	400	M 30x200	M 36	2 280
SNL 3156	2 860	1 650	1430	1240	720	620	400	M 30x200	M 36	2 280
SNL 3160	2 860	1 650	1430	1240	720	620	400	M 30x220	M 36	2 280
SNL 3164	2 860	1 650	1430	1240	720	620	400	M 30x220	M 36	2 280
SNL 3168	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 36	2 280
SNL 3172	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 36	2 280
SNL 3176	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 36	2 280
SNL 3180	4 200	2 400	2 100	1 600	920	800	600	M 36x240	M 42	3 640
SNL 3184	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x280	M 42	3 640
SNL 3188	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x280	M 42	3 640
SNL 3192	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x300	M 42	3 640
SNL 3196	5 800	3 350	2 900	2 200	1 260	1 100	850	M 42x300	M 48	5 450

Large SNL plummer block housings
for bearings on adapter sleeves
d_a 150 – 200 mm



Shaft	Housing dimensions												Mass	Designations Components		
														Housing only	Seal	End cover
d_a	A	A_1	H	H_1	H_2	J	J_1	L	N	N_1	s	G				
mm	mm												kg			
150	230	180	333	170	70	430	100	510	34	28	14	24	69.5	SNL 3134 SNL 3134 SNL 3134 TURT SNL 3134 TURA	TS 34 TNF 34 TSD 3134 U TSD 3134 U	ETS 34 ETS 34 ETS 3134 R ETS 3134 R
160	230	180	333	170	70	430	100	510	34	28	14	24	69.5	SNL 3036 SNL 3036 SNL 3036 TURT SNL 3036 TURA	TS 36 TNF 36 TSD 3036 U TSD 3036 U	ETS 36 ETS 36 ETS 3036 R ETS 3036 R
	240	190	353	180	75	450	110	530	34	28	15	24	77.5	SNL 3136 SNL 3136 SNL 3136 TURT SNL 3136 TURA	TS 36 TNF 36 TSD 3136 U TSD 3136 U	ETS 36 ETS 36 ETS 3136 R ETS 3136 R
170	240	190	353	180	75	450	110	530	34	28	15	24	77.5	SNL 3038 SNL 3038 SNL 3038 TURT SNL 3038 TURA	TS 38 TNF 38 TSD 3038 U TSD 3038 U	ETS 38 ETS 38 ETS 3038 R ETS 3038 R
	260	210	375	190	80	480	120	560	34	28	10	24	97.5	SNL 3138 SNL 3138 SNL 3138 TURT SNL 3138 TURA	TS 38 TNF 38 TSD 3138 U TSD 3138 U	ETS 38 ETS 38 ETS 3138 R ETS 3138 R
180	260	210	375	190	80	480	120	560	34	28	10	24	97.5	SNL 3040 SNL 3040 SNL 3040 TURT SNL 3040 TURA	TS 40 TNF 40 TSD 3040 U TSD 3040 U	ETS 40 ETS 40 ETS 3040 R ETS 3040 R
	280	230	411	210	85	510	130	610	42	35	10	30	123	SNL 3140 SNL 3140 SNL 3140 TURT SNL 3140 TURA	TS 40 TNF 40 TSD 3140 U TSD 3140 U	ETS 40 ETS 40 ETS 3140 R ETS 3140 R
200	280	230	411	210	85	510	130	610	42	35	10	30	123	SNL 3044 SNL 3044 SNL 3044 TURT SNL 3044 TURA	TS 44 TNF 44 TSD 3044 U TSD 3044 U	ETS 44 ETS 44 ETS 3044 R ETS 3044 R
	290	240	434	220	90	540	140	640	42	35	12	30	138	SNL 3144 SNL 3144 SNL 3144 TURT SNL 3144 TURA	TS 44 TNF 44 TSD 3144 U TSD 3144 U	ETS 44 ETS 44 ETS 3144 R ETS 3144 R

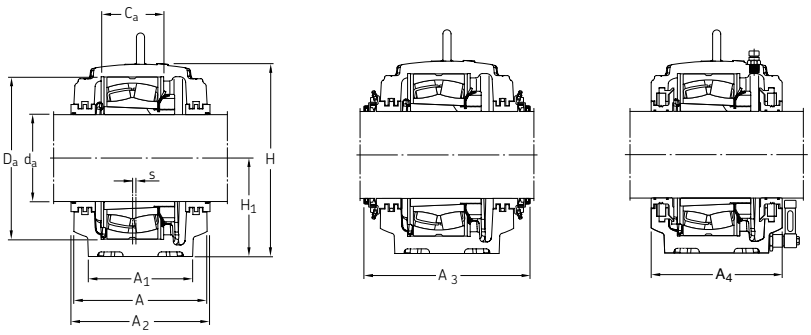




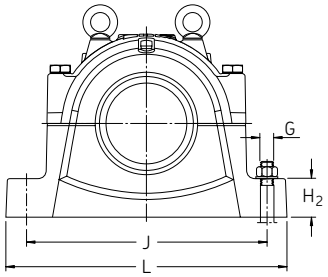
Shaft	Bearing seating		Width across seals			Eye bolts According to DIN 580	Appropriate bearings and associated components Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings
d_a	C_a	D_a	A_2	A_3	A_4				
mm	mm		mm			–	–		
150	108	280	240	302	225	M 16	23134 CCK/W33 C 3134 K[1]	H 3134 H 3134 L	2 FRB 10/280 2 FRB 10/280
160	108	280	240	304	225	M 16	23036 CCK/W33 C 3036 K	H 3036 H 3036	2 FRB 17/280 2 FRB 17/280
	116	300	250	317	235	M 16	23136 CCK/W33 C 3136 K	H 3136 H 3136 L	2 FRB 10/300 2 FRB 10/300
170	115	290	250	318	235	M 16	23038 CCK/W33 C 3038 K	H 3038 H 3038	4 FRB 10/290 4 FRB 10/290
	124	320	270	334	255	M 20	23138 CCK/W33 C 3138[1]	H 3138 H 3138 L	2 FRB 10/320 2 FRB 10/320
180	122	310	270	331	255	M 20	23040 CCK/W33 C 3040 K	H 3040 H 3040	4 FRB 10/310 4 FRB 10/310
	132	340	290	351	275	M 20	23140 CCK/W33 C 3140 K	H 3140 H 3140	2 FRB 10/340 2 FRB 10/340
200	130	340	290	353	275	M 20	23044 CCK/W33 C 3044 K	OH 3044 H OH 3044 H	4 FRB 10/340 4 FRB 10/340
	140	370	300	361	285	M 20	23144 CCK/W33 C 3144 K	OH 3144 H OH 3144 HTL	2 FRB 10/370 2 FRB 10/370

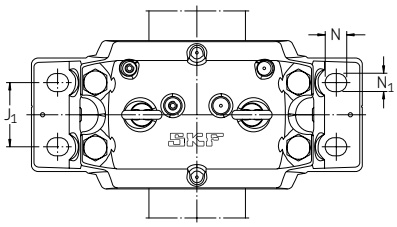
[1] Please check availability of the bearing before incorporating it in a bearing arrangement design.

Large SNL plummer block housings
for bearings on adapter sleeves
d_a 220 – 300 mm



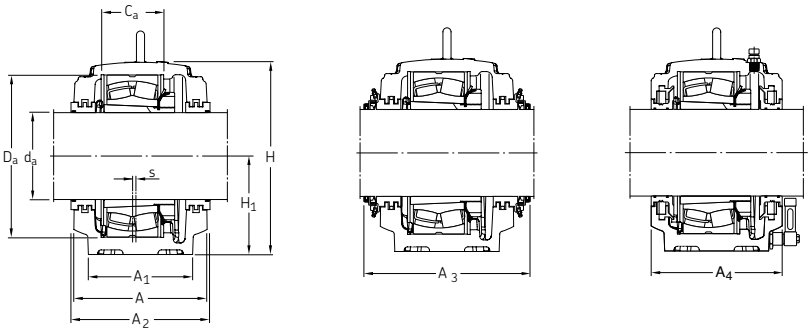
Shaft	Housing dimensions												Mass	Designations Components		
														Housing only	Seal	End cover
d_a	A	A_1	H	H_1	H_2	J	J_1	L	N	N_1	s	G				
mm	mm												kg			
220	290	240	434	220	90	540	140	640	42	35	12	30	138	SNL 3048	TS 48	ETS 48
														SNL 3048	TNF 48	ETS 48
														SNL 3048 TURT	TSD 3048 U	ETS 3048 R
														SNL 3048 TURA	TSD 3048 U	ETS 3048 R
	310	260	474	240	95	600	150	700	42	35	12	30	187	SNL 3148	TS 48	ETS 48
														SNL 3148	TNF 48	ETS 48
														SNL 3148 TURT	TSD 3148 U	ETS 3148 R
														SNL 3148 TURA	TSD 3148 U	ETS 3148 R
240	310	260	474	240	95	600	150	700	42	35	12	30	187	SNL 3052	TS 52	ETS 52
														SNL 3052	TNF 52	ETS 52
														SNL 3052 TURT	TSD 3052 U	ETS 3052 R
														SNL 3052 TURA	TSD 3052 U	ETS 3052 R
	320	280	516	260	100	650	160	770	50	42	13	36	221	SNL 3152	TS 52	ETS 52
														SNL 3152	TNF 52	ETS 52
														SNL 3152 TURT	TSD 3152 U	ETS 3152 R
														SNL 3152 TURA	TSD 3152 U	ETS 3152 R
260	320	280	516	260	100	650	160	770	50	42	13	36	221	SNL 3056	TS 56	ETS 56
														SNL 3056	TNF 56	ETS 56
														SNL 3056 TURT	TSD 3056 U	ETS 3056 R
														SNL 3056 TURA	TSD 3056 U	ETS 3056 R
	320	280	551	280	105	670	160	790	50	42	16	36	252	SNL 3156	TS 56	ETS 56
														SNL 3156	TNF 56	ETS 56
														SNL 3156 TURT	TSD 3156 U	ETS 3156 R
														SNL 3156 TURA	TSD 3156 U	ETS 3156 R
280	320	280	551	280	105	670	160	790	50	42	16	36	252	SNL 3060	TS 60	ETS 60
														SNL 3060	TNF 60	ETS 60
														SNL 3060 TURT	TSD 3060 U	ETS 3060 R
														SNL 3060 TURA	TSD 3060 U	ETS 3060 R
	350	310	591	300	110	710	190	830	50	42	22	36	301	SNL 3160	TS 60	ETS 60
														SNL 3160	TNF 60	ETS 60
														SNL 3160 TURT	TSD 3160 U	ETS 3160 R
														SNL 3160 TURA	TSD 3160 U	ETS 3160 R
300	350	310	591	300	110	710	190	830	50	42	22	36	301	SNL 3064	TS 64	ETS 64
														SNL 3064	TNF 64	ETS 64
														SNL 3064 TURT	TSD 3064 U	ETS 3064 R
														SNL 3064 TURA	TSD 3064 U	ETS 3064 R
	370	330	631	320	115	750	200	880	50	42	23	36	339	SNL 3164	TS 64	ETS 64
														SNL 3164	TNF 64	ETS 64
														SNL 3164 TURT	TSD 3164 U	ETS 3164 R
														SNL 3164 TURA	TSD 3164 U	ETS 3164 R



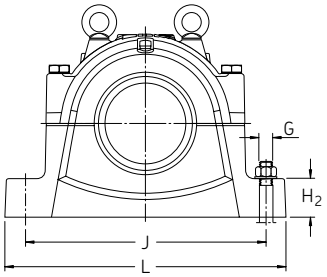


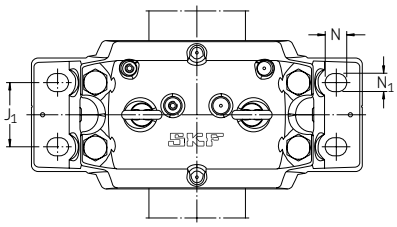
Shaft	Bearing seating		Width across seals			Eye bolts According to DIN 580	Appropriate bearings and associated components Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings
d_a	C_a	D_a	A_2	A_3	A_4				
mm	mm		mm			–	–		
220	140	360	300	387	285	M 20	23048 CCK/W33 C 3048 K	OH 3048 H OH 3048 H	4 FRB 12/360 4 FRB 12/360
	148	400	315	404	305	M 24	23148 CCK/W33 C 3148 K	OH 3148 H OH 3148 HTL	2 FRB 10/400 2 FRB 10/400
240	148	400	315	397	305	M 24	23052 CCK/W33 C 3052 K	OH 3052 H OH 3052 H	2 FRB 22/400 2 FRB 22/400
	164	440	330	414	315	M 24	23152 CCK/W33 C 3152 K	OH 3152 H OH 3152 HTL	2 FRB 10/440 2 FRB 10/440
260	166	420	330	413	315	M 24	23056 CCK/W33 C 3056 K	OH 3056 H OH 3056 H	6 FRB 10/420 6 FRB 10/420
	166	460	330	412	315	M 24	23156 CCK/W33 C 3156 K	OH 3156 H OH 3156 HTL	2 FRB 10/460 2 FRB 10/460
280	168	460	330	412	315	M 24	23060 CCK/W33 C 3060 KM	OH 3060 H OH 3060 H	2 FRB 25/460 2 FRB 25/460
	180	500	360	442	345	M 30	23160 CCK/W33 C 3160 K	OH 3160 H OH 3160 H	2 FRB 10/500 2 FRB 10/500
300	181	480	360	443	345	M 30	23064 CCK/W33 C 3064 KM	OH 3064 H OH 3064 H	6 FRB 10/480 6 FRB 10/480
	196	540	380	462	365	M 30	23164 CCK/W33 C 3164 KM	OH 3164 H OH 3164 H	2 FRB 10/540 2 FRB 10/540

Large SNL plummer block housings
for bearings on adapter sleeves
d_a 320 – 400 mm



Shaft	Housing dimensions												Mass	Designations Components		
														Housing only	Seal	End cover
d_a	A	A_1	H	H_1	H_2	J	J_1	L	N	N_1	s	G				
mm	mm												kg			
320	370	330	631	320	115	750	200	880	50	42	23	36	339	SNL 3068	TS 68	ETS 68
														SNL 3068	TNF 68	ETS 68
														SNL 3068 TURT	TSD 3068 U	ETS 3068 R
														SNL 3068 TURA	TSD 3068 U	ETS 3068 R
	400	360	675	340	120	810	220	950	50	42	24	36	430	SNL 3168 F	TS 68	ETS 68
														SNL 3168 F	TNF 68	ETS 68
														SNL 3168 FTURT	TSD 3168 U	ETS 3168 R
														SNL 3168 FTURA	TSD 3168 U	ETS 3168 R
340	370	330	631	320	115	750	200	880	50	42	23	36	339	SNL 3072	TS 72	ETS 72
														SNL 3072	TNF 72	ETS 72
														SNL 3072 TURT	TSD 3072 U	ETS 3072 R
														SNL 3072 TURA	TSD 3072 U	ETS 3072 R
	400	360	695	350	120	840	220	1 000	50	42	30	36	458	SNL 3172 F	TS 72	ETS 72
														SNL 3172 F	TNF 72	ETS 72
														SNL 3172 FTURT	TSD 3172 U	ETS 3172 R
														SNL 3172 FTURA	TSD 3172 U	ETS 3172 R
360	400	360	675	340	120	810	220	950	50	42	24	36	430	SNL 3076 F	TS 76	ETS 76
														SNL 3076 F	TNF 76	ETS 76
														SNL 3076 FTURT	TSD 3076 U	ETS 3076 R
														SNL 3076 FTURA	TSD 3076 U	ETS 3076 R
	400	360	715	360	120	870	220	1 040	50	42	30	36	473	SNL 3176 F	TS 76	ETS 76
														SNL 3176 F	TNF 76	ETS 76
														SNL 3176 FTURT	TSD 3176 U	ETS 3176 R
														SNL 3176 FTURA	TSD 3176 U	ETS 3176 R
380	400	360	695	350	120	840	220	1 000	50	42	30	36	458	SNL 3080 F	TS 80	ETS 80
														SNL 3080 F	TNF 80	ETS 80
														SNL 3080 FTURT	TSD 3080 U	ETS 3080 R
														SNL 3080 FTURA	TSD 3080 U	ETS 3080 R
	430	390	775	380	125	950	240	1 120	60	48	30	42	595	SNL 3180 F	TS 80	ETS 80
														SNL 3180 F	TNF 80	ETS 80
														SNL 3180 FTURT	TSD 3180 U	ETS 3180 R
														SNL 3180 FTURA	TSD 3180 U	ETS 3180 R
400	400	360	715	360	120	870	220	1 040	50	42	30	36	473	SNL 3084 F	TS 84	ETS 84
														SNL 3084 F	TNF 84	ETS 84
														SNL 3084 FTURT	TSD 3084 U	ETS 3084 R
														SNL 3084 FTURA	TSD 3084 U	ETS 3084 R
	460	420	810	410	130	1 000	260	1 170	60	48	35	42	716	SNL 3184 F	TS 84	ETS 84
														SNL 3184 F	TNF 84	ETS 84
														SNL 3184 FTURT	TSD 3184 U	ETS 3184 R
														SNL 3184 FTURA	TSD 3184 U	ETS 3184 R

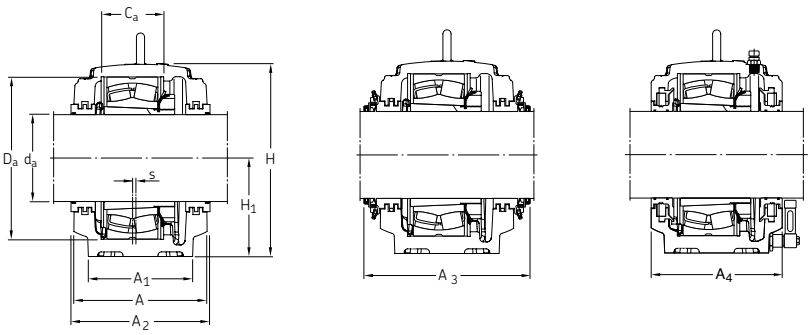




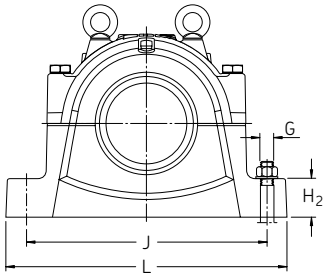
Shaft	Bearing seating		Width across seals			Eye bolts	Appropriate bearings and associated components		
						According to DIN 580	Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings
d_a	C_a	D_a	A_2	A_3	A_4				
mm	mm		mm			–	–		
320	197	520	380	461	365	M 30	23068 CCK/W33 C 3068 KM	OH 3068 H OH 3068 H	4 FRB 16/520 4 FRB 16/520
	190	580	410	491	395	M 30	23168 CCK/W33 C 3168 KM	OH 3168 H OH 3168 H	– –
340	198	540	380	461	365	M 30	23072 CCK/W33 C 23072 KM	OH 3072 H OH 3072 H	4 FRB 16/540 4 FRB 16/540
	192	600	410	491	395	M 36	23172 CCK/W33 C 3172 KM	OH 3172 H OH 3172 H	– –
360	135	560	410	492	395	M 30	23076 CCK/W33 C 3076 KM	OH 3076 H OH 3076 H	– –
	194	620	410	491	395	M 36	23176 CAK/W33 C 3176 KMB[1]	OH 3176 H OH 3176 HE	– –
380	148	600	410	492	395	M 36	23080 CCK/W33 C 3080 KM	OH 3080 H OH 3080 H	– –
	200	650	440	521	425	M 42	23180 CAK/W33 C 3180 KMB	OH 3180 H OH 3180 HE	– –
400	150	620	410	492	395	M 36	23084 CAK/W33 C 3084 KM	OH 3084 H OH 3084 H	– –
	224	700	470	551	455	M 42	23184 CKJ/W33 C 3184 KM	OH 3184 H OH 3184 H	– –

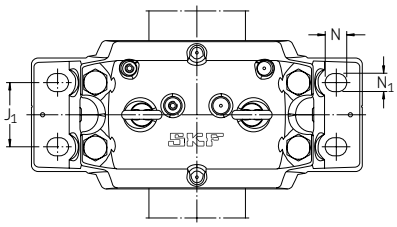
[1] Please check availability of the bearing before incorporating it in a bearing arrangement design.
For missing locating ring data, please contact SKF Applications Engineering.

Large SNL plummer block housings
for bearings on adapter sleeves
d_a 410 – 470 mm



Shaft	Housing dimensions												Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	J_1	L	N	N_1	s	G		Housing only	Seal	End cover
mm	mm												kg			
410	430	390	775	380	125	950	240	1 120	60	48	30	42	595	SNL 3088 F	TS 88	ETS 88
														SNL 3088 F	TNF 88	ETS 88
														SNL 3088 FTURT	TSD 3088 U	ETS 3088 R
														SNL 3088 FTURA	TSD 3088 U	ETS 3088 R
	460	430	835	420	135	1 030	260	1 220	60	48	35	42	755	SNL 3188 F	TS 88	ETS 88
														SNL 3188 F	TNF 88	ETS 88
														SNL 3188 FTURT	TSD 3188 U	ETS 3188 R
														SNL 3188 FTURA	TSD 3188 U	ETS 3188 R
430	460	420	810	410	130	1 000	260	1 170	60	48	35	42	716	SNL 3092 F	TS 92	ETS 92
														SNL 3092 F	TNF 92	ETS 92
														SNL 3092 FTURT	TSD 3092 U	ETS 3092 R
														SNL 3092 FTURA	TSD 3092 U	ETS 3092 R
	470	440	880	440	145	1 070	260	1 280	60	48	35	42	865	SNL 3192 F	TS 92	ETS 92
														SNL 3192 F	TNF 92	ETS 92
														SNL 3192 FTURT	TSD 3192 U	ETS 3192 R
														SNL 3192 FTURA	TSD 3192 U	ETS 3192 R
450	460	420	810	410	130	1 000	260	1 170	60	48	35	42	716	SNL 3096 F	TS 96	ETS 96
														SNL 3096 F	TNF 96	ETS 96
														SNL 3096 FTURT	TSD 3096 U	ETS 3096 R
														SNL 3096 FTURA	TSD 3096 U	ETS 3096 R
	470	440	920	460	155	1 110	260	1 330	70	56	35	48	947	SNL 3196 F	TS 96	ETS 96
														SNL 3196 F	TNF 96	ETS 96
														SNL 3196 FTURT	TSD 3196 U	ETS 3196 R
														SNL 3196 FTURA	TSD 3196 U	ETS 3196 R
470	460	430	835	420	135	1 030	260	1 220	60	48	35	42	755	SNL 30/500 F	TS 500	ETS 500
														SNL 30/500 F	TNF 500	ETS 500
														SNL 30/500 FTURT	TSD 30/500 U	ETS 30/500 R
														SNL 30/500 FTURA	TSD 30/500 U	ETS 30/500 R

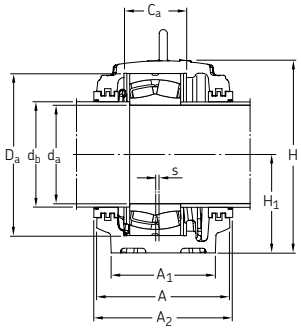




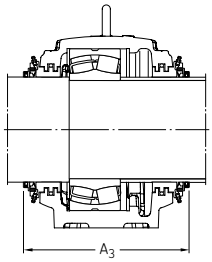
Shaft	Bearing seating		Width across seals			Eye bolts According to DIN 580	Appropriate bearings and associated components Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings
d_a	C_a	D_a	A_2	A_3	A_4				
mm	mm		mm			–	–		
410	157	650	440	522	425	M 42	23088 CAK/W33 C 3088 KMB	OH 3088 H OH 3088 HE	– –
	226	720	470	552	455	M 42	23188 CAK/W33 C 3188 KMB[1]	OH 3188 H OH 3188 HE	– –
430	163	680	470	552	455	M 42	23092 CAK/W33 C 3092 KM	OH 3092 H OH 3092 H	– –
	240	760	480	562	465	M 48	23192 CAK/W33 C 3192 KM	OH 3192 H OH 3192 H	– –
450	165	700	470	561	455	M 42	23096 CAK/W33 C 3096 KM	OH 3096 H OH 3096 H	– –
	248	790	480	561	465	M 48	23196 CAK/W33 C 3196 KMB[1]	OH 3196 H OH 3196 HE	– –
470	167	720	470	551	455	M 42	230/500 CAK/W33 C 30/500 KM	OH 30/500 H OH 30/500 H	– –

[1] Please check availability of the bearing before incorporating it in a bearing arrangement design.
For missing locating ring data, please contact SKF Applications Engineering.

Large SNL plummer block housings
for bearings with cylindrical bore
d_a 170 – 300 mm

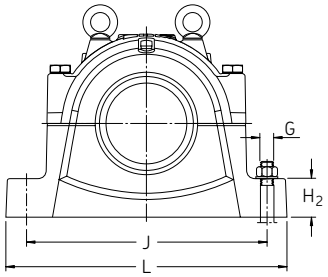


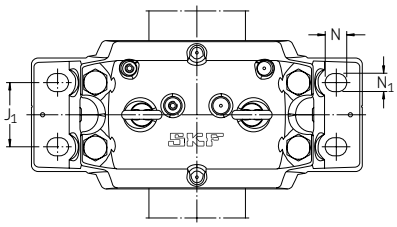
Labyrinth seals
TS design



Taconite seals
TNF design

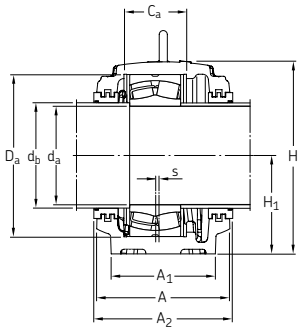
Shaft	Housing dimensions												Mass	Designations Components		
d_a	A	A_1	H	H_1	H_2	J	J_1	L	N	N_1	s	G		Housing only	Seal	End cover
mm	mm												kg			
170	230	180	333	170	70	430	100	510	34	28	14	24	69.5	SNL 3134 G SNL 3134 G	TS 40 TNF 40	ETS 40 ETS 40
180	230	180	333	170	70	430	100	510	34	28	14	24	69.5	SNL 3036 G SNL 3036 G	TS 44 TNF 44	ETS 44 ETS 44
	240	190	353	180	75	450	110	530	34	28	15	24	77.5	SNL 3136 G SNL 3136 G	TS 44 TNF 44	ETS 44 ETS 44
190	240	190	353	180	75	450	110	530	34	28	15	24	77.5	SNL 3038 G SNL 3038 G	TS 44 TNF 44	ETS 44 ETS 44
	260	210	375	190	80	480	120	560	34	28	10	24	97.5	SNL 3138 G SNL 3138 G	TS 44 TNF 44	ETS 44 ETS 44
200	260	210	375	190	80	480	120	560	34	28	10	24	97.5	SNL 3040 G SNL 3040 G	TS 48 TNF 48	ETS 48 ETS 48
	280	230	411	210	85	510	130	610	42	35	10	30	123	SNL 3140 G SNL 3140 G	TS 48 TNF 48	ETS 48 ETS 48
220	280	230	411	210	85	510	130	610	42	35	10	30	123	SNL 3044 G SNL 3044 G	TS 52 TNF 52	ETS 52 ETS 52
	290	240	434	220	90	540	140	640	42	35	12	30	138	SNL 3144 G SNL 3144 G	TS 52 TNF 52	ETS 52 ETS 52
240	290	240	434	220	90	540	140	640	42	35	12	30	138	SNL 3048 G SNL 3048 G	TS 56 TNF 56	ETS 56 ETS 56
	310	260	474	240	95	600	150	700	42	35	12	30	187	SNL 3148 G SNL 3148 G	TS 56 TNF 56	ETS 56 ETS 56
260	310	260	474	240	95	600	150	700	42	35	12	30	187	SNL 3052 G SNL 3052 G	TS 60 TNF 60	ETS 60 ETS 60
	320	280	516	260	100	650	160	770	50	42	13	36	221	SNL 3152 G SNL 3152 G	TS 60 TNF 60	ETS 60 ETS 60
280	320	280	516	260	100	650	160	770	50	42	13	36	221	SNL 3056 G SNL 3056 G	TS 64 TNF 64	ETS 64 ETS 64
	320	280	551	280	105	670	160	790	50	42	16	36	252	SNL 3156 G SNL 3156 G	TS 64 TNF 64	ETS 64 ETS 64
300	320	280	551	280	105	670	160	790	50	42	16	36	252	SNL 3060 G SNL 3060 G	TS 68 TNF 68	ETS 68 ETS 68
	350	310	591	300	110	710	190	830	50	42	22	36	301	SNL 3160 G SNL 3160 G	TS 68 TNF 68	ETS 68 ETS 68



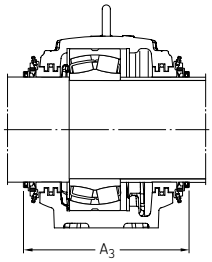


Shaft		Bearing seating		Width across seals		Eye bolts According to DIN 580	Appropriate bearings and associated components Spherical roller bearing CARB bearing	Locating rings
d_a	d_b	C_a	D_a	A_2	A_3			
mm		mm		mm		–	–	
170	180	108	280	240	302	M 16	23134 CC/W33	2 FRB 10/280
180	200	108	280	240	304	M 16	23036 CC/W33 24036 CC/W33 C 3036	2 FRB 17/280 2 FRB 4/280 2 FRB 17/280
	200	116	300	250	317	M 16	23136 CC/W33 C 3136	2 FRB 10/300 2 FRB 10/300
190	200	115	290	250	318	M 16	23038 CC/W33 24038 CC/W33 C 3038	4 FRB 10/290 2 FRB 7.5/290 4 FRB 10/290
	200	124	320	270	334	M 20	23138 CC/W33	2 FRB 10/320
200	220	122	310	270	331	M 20	23040 CC/W33 24040 CC/W33 C 3040	4 FRB 10/310 2 FRB 6.5/310 4 FRB 10/310
	220	132	340	290	351	M 20	23140 CC/W33 C 3140	2 FRB 10/340 2 FRB 10/340
220	240	130	340	290	353	M 20	23044 CC/W33 24044 CC/W33 C 3044	4 FRB 10/340 2 FRB 6/340 4 FRB 10/340
	240	140	370	300	361	M 20	23144 CC/W33 C 3144	2 FRB 10/370 2 FRB 10/370
240	260	140	360	300	387	M 20	23048 CC/W33 24048 CC/W33 C 3048	4 FRB 12/360 2 FRB 11/360 4 FRB 12/360
	260	148	400	315	404	M 24	23148 CC/W33 C 3148	2 FRB 10/400 2 FRB 10/400
260	280	148	400	315	397	M 24	23052 CC/W33 24052 CC/W33 C 3052	2 FRB 22/400 2 FRB 4/400 2 FRB 22/400
	280	164	440	330	414	M 24	23152 CC/W33 C 3152	2 FRB 10/440 2 FRB 10/440
280	300	166	420	330	413	M 24	23056 CC/W33 24056 CC/W33 C 3056	6 FRB 10/420 2 FRB 13/420 6 FRB 10/420
	300	166	460	330	412	M 24	23156 CC/W33 C 3156	2 FRB 10/460 2 FRB 10/460
300	320	168	460	330	412	M 24	23060 CC/W33 24060 CC/W33 C 3060	2 FRB 25/460 2 FRB 4/460 2 FRB 25/460
	320	180	500	360	442	M 30	23160 CC/W33 C 3160	2 FRB 10/500 2 FRB 10/500

Large SNL plummer block housings for bearings with cylindrical bore
d_a 320 – 460 mm

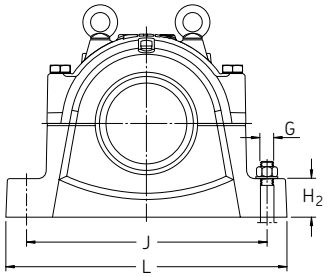


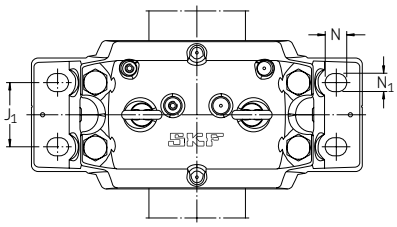
Labyrinth seals
TS design



Taconite seals
TNF design

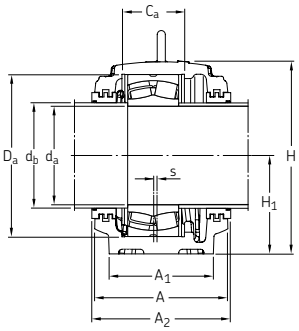
Shaft	Housing dimensions												Mass	Designations Components		
														Housing only	Seal	End cover
d_a	A	A_1	H	H_1	H_2	J	J_1	L	N	N_1	s	G				
mm	mm												kg			
320	350	310	591	300	110	710	190	830	50	42	22	36	301	SNL 3064 G SNL 3064 G	TS 72 TNF 72	ETS 72 ETS 72
	370	330	631	320	115	750	200	880	50	42	23	36	339	SNL 3164 G SNL 3164 G	TS 72 TNF 72	ETS 72 ETS 72
340	370	330	631	320	115	750	200	880	50	42	23	36	339	SNL 3068 G SNL 3068 G	TS 76 TNF 76	ETS 76 ETS 76
	400	360	675	340	120	810	220	950	50	42	24	36	430 427	SNL 3168 GF SNL 3168 GL	TS 76	ETS 76
360	370	330	631	320	115	750	200	880	50	42	23	36	339	SNL 3072 G SNL 3072 G	TS 80 TNF 80	ETS 80 ETS 80
	400	360	695	350	120	840	220	1 000	50	42	30	36	458 454	SNL 3172 GF SNL 3172 GL	TS 80	ETS 80
380	400	360	675	340	120	810	220	950	50	42	24	36	430 427	SNL 3076 GF SNL 3076 GL	TS 84	ETS 84
	400	360	715	360	120	870	220	1 040	50	42	30	36	473 470	SNL 3176 GF SNL 3176 GL	TS 84	ETS 84
400	400	360	695	350	120	840	220	1 000	50	42	30	36	458 454	SNL 3080 GF SNL 3080 GL	TS 92	ETS 92
	430	390	775	380	125	950	240	1 120	60	48	30	42	595 595	SNL 3180 GF SNL 3180 GL	TS 92	ETS 92
420	400	360	715	360	120	870	220	1 040	50	42	30	36	473 470	SNL 3084 GF SNL 3084 GL	TS 96	ETS 96
	460	420	810	410	130	1 000	260	1 170	60	48	35	42	716 709	SNL 3184 GF SNL 3184 GL	TS 96	ETS 96
440	430	390	775	380	125	950	240	1 120	60	48	30	42	595 595	SNL 3088 GF SNL 3088 GL	TS 500	ETS 500
	460	430	835	420	135	1 030	260	1 220	60	48	35	42	755 751	SNL 3188 GF SNL 3188 GL	TS 500	ETS 500
460	460	420	810	410	130	1 000	260	1 170	60	48	35	42	716 709	SNL 3092 GF SNL 3092 GL	TS 530	ETS 530
	470	440	880	440	145	1 070	260	1 280	60	48	35	42	865 859	SNL 3192 GF SNL 3192 GL	TS 530	ETS 530



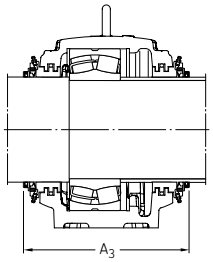


Shaft		Bearing seating		Width across seals		Eye bolts According to DIN 580	Appropriate bearings and associated components Spherical roller bearing CARB bearing	Locating rings
d_a	d_b	C_a	D_a	A_2	A_3			
mm		mm		mm		–	–	
320	340	181	480	360	443	M 30	23064 CC/W33 24064 CC/W33 C 3064 M	6 FRB 10/480 2 FRB 10.5/480 6 FRB 10/480
	340	196	540	380	462	M 30	23164 CC/W33 C 3164 M	2 FRB 10/540 2 FRB 10/540
340	360	197	520	380	461	M 30	23068 CC/W33 24068 CC/W33 C 3068 M	4 FRB 16/520 2 FRB 8.5/520 4 FRB 16/520
	360	190 210	580	410	491	M 30	23168 CC/W33	
360	380	198	540	380	461	M 30	23072 CC/W33 24072 CC/W33	4 FRB 16/540 2 FRB 9/540
	380	192 212	600	410	491	M 36	23172 CC/W33	–
380	400	135 180	560	410	492	M 30	23076 CC/W33	–
	400	194 214	620	410	491	M 36	23176 CA/W33	–
400	430	148 192	600	410	492	M 36	23080 CC/W33	–
	430	200 220	650	440	521	M 42	23180 CA/W33	–
420	450	150 194	620	410	492	M 36	23084 CA/W33	–
	450	224 244	700	470	551	M 42	23184 CJ/W33	–
440	470	157 200	650	440	522	M 42	23088 CA/W33	–
	470	226 246	720	470	552	M 42	23188 CA/W33	–
460	500	163 224	680	470	552	M 42	23092 CA/W33	–
	500	240 260	760	480	562	M 48	23192 CA/W33	–

Large SNL plummer block housings for bearings with cylindrical bore
d_a 480 – 530 mm

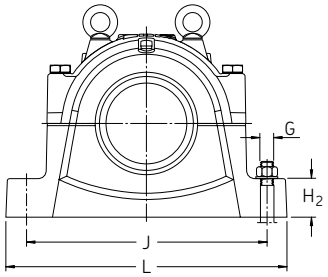


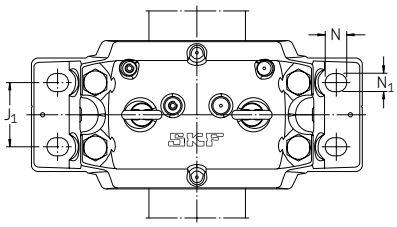
Labyrinth seals
TS design



Taconite seals
TNF design

Shaft	Housing dimensions												Mass	Designations	
													Components		
d_a	A	A_1	H	H_1	H_2	J	J_1	L	N	N_1	s	G	Housing only	Seal	End cover
mm	mm												kg		
480	460	420	810	410	130	1 000	260	1 170	60	48	35	42	716 709	SNL 3096 GF SNL 3096 GL	TS 530/510	ETS 530
	470	440	920	460	155	1 110	260	1 330	70	56	35	48	947 941	SNL 3196 GF SNL 3196 GL	TS 560/520	ETS 560
500	460	430	835	420	135	1 030	260	1 220	60	48	35	42	745 751	SNL 30/500 GF SNL 30/500 GL	TS 560	ETS 560
530	470	440	920	460	155	1 110	260	1 330	70	56	35	48	947 941	SNL 30/530 GF SNL 30/530 GL	TS 600	ETS 600





Shaft		Bearing seating		Width across seals		Eye bolts According to DIN 580	Appropriate bearings and associated components Spherical roller bearing Locating rings CARB bearing
d_a	d_b	C_a	D_a	A_2	A_3		
mm		mm		mm		–	–
480	510	165 224	700	470	561	M 42	23096 CA/W33
	520	248 268	790	480	561	M 48	23196 CA/W33
500	530	167 226	720	470	551	M 42	230/500 CA/W33
530	560	185 248	780	480	551	M 48	230/530 CA/W33

For missing locating ring data please contact SKF Applications Engineering.

Bearing accessories

Adapter and withdrawal sleeves

Adapter and withdrawal sleeves are used to secure bearings having a tapered bore on to cylindrical shaft seatings. They facilitate bearing mounting and dismounting and often simplify bearing arrangement design. Adapter sleeves are the more popular as they enable bearings to be mounted on straight shafts **(Figure 1)** as well as stepped shafts **(Figure 2**). They are easier to mount than the withdrawal sleeves **(Figure 3)** and require no additional location on the shaft.

When using adapter sleeves on straight shafts it is possible to locate the bearing at any position on the shaft. When used on stepped shafts together with a support ring, exact axial positioning of the bearing can be achieved and bearing dismounting is facilitated.

Bearings on withdrawal sleeves must be mounted against a fixed abutment, for example, a shaft shoulder. The withdrawal sleeve must be secured in position after it has been pressed into the bearing bore by a lock nut or plate on the shaft.

As adapter and withdrawal sleeves adapt to the shaft diameter, less stringent shaft tolerances can be permitted. However, the accuracy of form the running accuracy of the bearing arrangement. Generally, seatings machined to tolerance h9 and having a cylindricity tolerance to IT5/2 will be satisfactory.

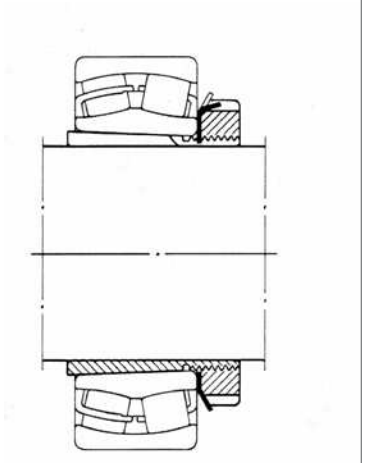
Adapter and withdrawal sleeves for oil injection

The requisite interference fit of the bearing on the shaft is achieved by pressing the bearing up on to the adapter sleeve, or by pressing the withdrawal sleeve into the bearing bore. The force required to do this may be considerable, particularly where large bearings are concerned, because of the friction of the mating surfaces in the bearing/sleeve and sleeve/shaft contacts.

To facilitate the use of the oil injection method for mounting and dismounting, larger SKF adapter and withdrawal sleeves are available with oil supply ducts and distribution grooves. If oil is injected and pressure maintained via these ducts and grooves between the sleeve and bearing bore and between the sleeve and shaft, friction in the contacts will be reduced, and the force required for mounting and dismounting will be considerably smaller than for mounting in the dry state.

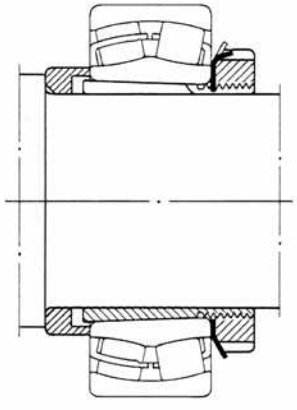
The oil injection equipment required for this method is also available from SKF; please refer to SKF Maintenance and Lubrication Products Catalog (711-639). When using the oil injection method and equipment, the prescribed precautionary measures **should be** observed.

Figure 1



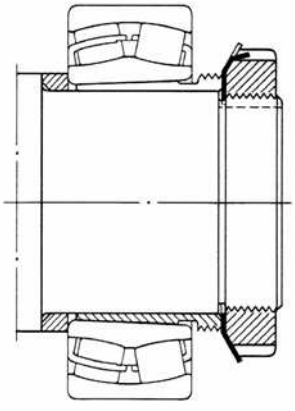
Straight shaft mounting with adapter sleeve

Figure 2



Shouldered shaft mounting with adapter sleeve

Figure 3



Withdrawal sleeve mount on a stepped shaft

Adapter sleeves

SKF adapter sleeves **(Figure 4)** are supplied complete with lock nut and locking device. The sleeves have a slotted design and an external taper of 1:12. Up to size 40, the sleeves are phosphated; the larger sleeves are not surface treated but are oiled.

The dimensions of the metric adapter sleeves conform to ISO 2982-1:1995. Adapter sleeves with inch dimensions are in accordance with ANSI/ABMA std 8.2.

Adapter sleeves for oil injection

SKF metric adapter sleeves with a bore diameter of 140 mm and above are supplied with oil supply ducts and distributor grooves for pressurized oil **(Figure 5)**. Ducts and grooves are optional for inch dimension sleeves of 7⅞" and above. The following four types are available:

OH	Oil injected between bearing and sleeve. One oil supply duct from large end of sleeve.
OH ..B	Oil injected between bearing, sleeve and shaft. Sizes 32 to 40: one oil supply duct from large end of sleeve. Size 44 and larger: two oil supply ducts from large end of sleeve.
OH .. H	Oil injected between bearing and sleeve. One oil supply duct from nut side of sleeve.
OH .. HB	Oil injected between bearing, sleeve and shaft. Sizes 32 to 40: one oil supply duct from nut side of sleeve. Size 44 and larger: two oil supply ducts from nut side of sleeve.

For metric adapter sleeves the dimensions of the oil injection holes are shown in the table. For corresponding information on inch dimension adapter sleeves, please consult SKF Applications Engineering.

Withdrawal sleeves

SKF withdrawal sleeves **(Figure 6)** are coated with a preservative. They are slotted and have an external taper of 1:12, except for those of series AH 240 and AH 241, which have an external taper of 1:30 and are designed for use with the wide spherical roller bearings of series 240 K30 and 241 K30.

The dimensions of the metric withdrawal sleeves are in accordance with ISO 2982-1:1995. Prefix X indicates that the sleeve has been modified and suffix G indicates that the thread pitch diameter G has been changed to adopt to the ISO standard.

The nuts required for dismounting are not supplied with the sleeves and must be ordered separately.

Withdrawal sleeves for oil injection

SKF metric sleeves having a bore diameter of 200 mm and above are supplied as standard in the AOH design, which enables the oil injection method to be used.

AOH withdrawal sleeves **(Figure 7)** have two oil supply ducts at the threaded side and have distribution grooves around the circumference and in the axial direction on the outside surface as well as in the bore.

The tables give the thread data for the supply ducts to take the oil injection equipment, which can be supplied by SKF.

Figure 4

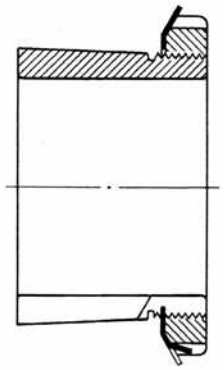


Figure 5

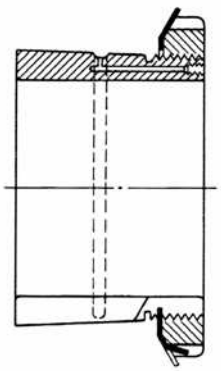


Figure 6

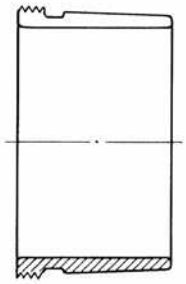
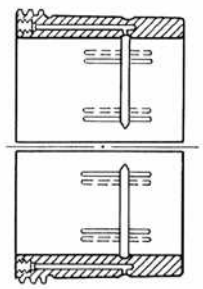


Figure 7



Lock nuts

SKF can supply a wide range of sizes of lock nuts, which are also referred to as shaft or withdrawal nuts, depending on the use to which they are put. They are used to locate bearings and other components on shafts as well as to facilitate mounting and dismounting bearings on withdrawal sleeves, adapter sleeves or tapered journals.

SKF lock nuts have four **(Figure 8)** or eight **(Figure 9)** equally spaced slots around the outside diameter to allow the use of hook, impact or HNM spanners.

Metric lock nuts up to and including size 40 (KM and KML designs) have a metric ISO thread to tolerance 5H, ISO 965/III-1980, while the larger nuts from size 42 have a metric ISO trapezoidal thread to tolerance 7H, ISO 2901-1977. It is recommended that the mating thread on the shaft be made to tolerance 6g according to ISO 965/III-1980 for the smaller nuts and to tolerance 7e according to ISO 2901-1977 for those with trapezoidal thread.

Inch-size lock nuts up to and including a thread diameter of 12.562" have a thread of American National Form NS Class 3. Larger inch sizes have an Acme Class 3G, General Purpose thread. The mating inch thread on the shaft must be of the same form and tolerance as that of the nut.

The dimensions of the metric lock nuts are in accordance with ISO 2982-2:1995. The inch series nuts are in accordance with ANSI/ABMA std 8.2.

Locking washers, locking clips and locking plates

Locking washers **(Figure 10)** of the MB, MBL and W designs are used with the smaller nuts, while locking clips **(Figure 11)** of the MS design and locking plates of the P design are used with larger nuts. They engage a groove in the shaft and lock the nut in position. Locking washers of the MB .. A design are used when a washer with increased strength is needed.

The locking washers are made of deep drawn steel strip. Dimensions of the metric sizes, except those of the MB .. A designs, conform to ISO 2982-2:1995. Inch-size locking washers are in accordance with ANSI/ABMA std 8.2.

The locking clips and plates are also made of deep drawn steel strip. They are attached to the shaft nut using a screw with hexagonal head to DIN EN 24017:1992. The screw and a spring washer (to DIN 128) are supplied with the clips. Locking plates type P are supplied with a steel wire to be passed through the holes in the head of each screw. The ends of the wire should be twisted together, to prevent loosening of the screws.

Figure 8

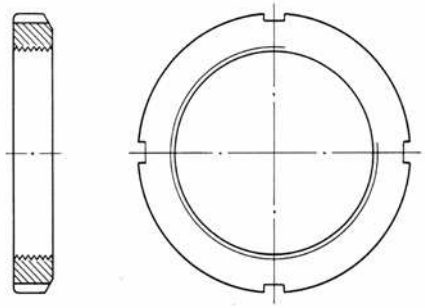


Figure 10

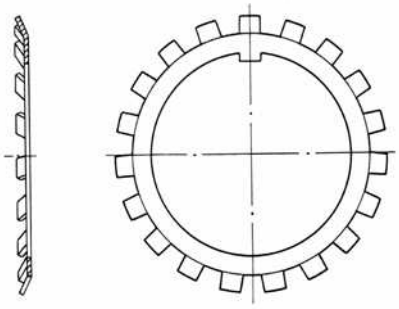


Figure 9

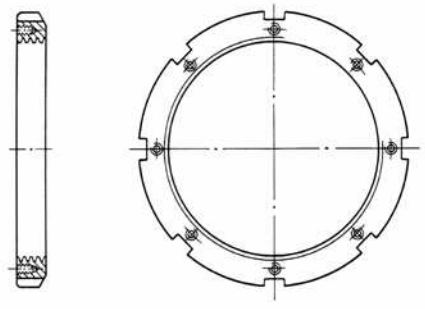
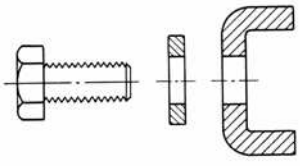


Figure 11

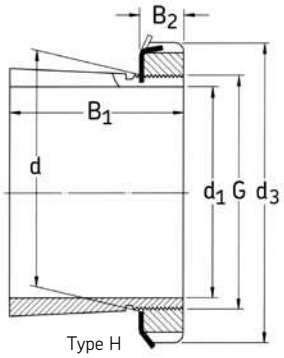


Other accessories

In addition to the selection of accessories shown in this publication, SKF can also supply a wide variety of other aids for mounting and dismounting rolling bearings. These include dollies, drifts, mechanical tools such as drive-up kits and pullers, oil pumps with accessories, complete oil injection tool kits, heating tools, electrical withdrawal tools, gauges and other items. Further details can be found in the SKF Maintenance and Lubrication Products catalog (MP/P1 03000 EN).

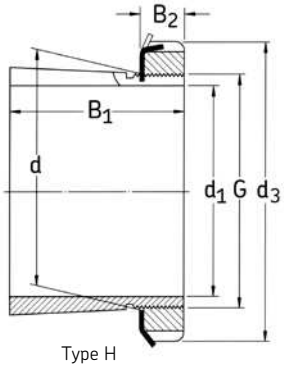
A carefully selected range of lubricating greases is also available to cover the majority of applications where grease lubricated bearings are used.

Adapter sleeves
d_1 17 – 55 mm



Type H
MB locking device

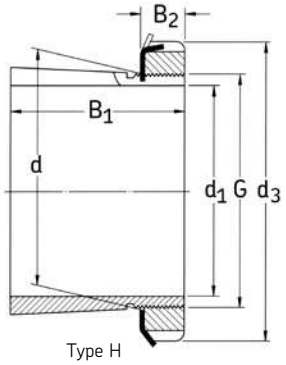
Dimensions						Mass	Designations				
							Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
d_1	d	d_3	B_1	B_2	G						
mm						kg	–				
17	20	32	24	7	M 20x1	0.036	**H 204**	KM 4	MB 4	-	1204 EK
		32	28	7	M 20x1	0.04	**H 304**	KM 4	MB 4	-	2204 EK, 1304 EK
		32	31	7	M 20x1	0.05	**H 2304**	KM 4	MB 4	-	2304 K
20	25	38	26	8	M 25x1.5	0.064	**H 205**	KM 5	MB 5	-	1205 EK
		38	29	8	M 25x1.5	0.071	**H 305**	KM 5	MB 5	-	2205 EK, 1305 EK, 22205 EK
		38	29	8	M 25x1.5	0.071	**H 305 C**	KM 5	MB 5 C	-	2205 E-2RS1K
		38	35	8	M 25x1.5	0.085	**H 2305**	KM 5	MB 5	-	2305 K
25	30	45	27	8	M 30x1.5	0.086	**H 206**	KM 6	MB 6	-	1206 EK
		45	31	8	M 30x1.5	0.095	**H 306**	KM 6	MB 6	-	2206 EK, 1306 EK, 22206 EK
		45	31	8	M 30x1.5	0.095	**H 306 C**	KM 6	MB 6 C	-	2206 E-2RS1K
		45	38	8	M 30x1.5	0.11	**H 2306**	KM 6	MB 6	-	2306 K
30	35	52	29	9	M 35x1.5	0.12	**H 207**	KM 7	MB 7	-	1207 EK
		52	35	9	M 35x1.5	0.14	**H 307**	KM 7	MB 7	-	2207 EK, 1307 EK, 22207 EK
		52	35	9	M 35x1.5	0.14	**H 307 C**	KM 7	MB 7 C	-	2207 E-2RS1K
		52	43	9	M 35x1.5	0.16	**H 2307**	KM 7	MB 7	-	2307 EK
35	40	58	31	10	M 40x1.5	0.16	**H 208**	KM 8	MB 8	-	1208 EK
		58	36	10	M 40x1.5	0.17	**H 308**	KM 8	MB 8	-	2208 EK, 1308 EK, 22208 EK, 21308 CCK
		58	36	10	M 40x1.5	0.17	**H 308 C**	KM 8	MB 8 C	-	2208 E-2RS1K
		58	46	10	M 40x1.5	0.22	**H 2308**	KM 8	MB 8	-	2308 EK, 22308 EK
40	45	65	33	11	M 45x1.5	0.21	**H 209**	KM 9	MB 9	-	1209 EK
		65	39	11	M 45x1.5	0.23	**H 309**	KM 9	MB 9	-	2209 EK, 1309 EK, 22209 EK, 21309 CCK
		65	39	11	M 45x1.5	0.23	**H 309 C**	KM 9	MB 9 C	-	2209 E-2RS1K
		65	50	11	M 45x1.5	0.27	**H 2309**	KM 9	MB 9	-	2309 EK, 22309 EK
45	50	70	35	12	M 50x1.5	0.24	**H 210**	KM 10	MB 10	HMV 10	1210 EK
		70	42	12	M 50x1.5	0.27	**H 310**	KM 10	MB 10	HMV 10	2210 EK, 1310 EK, 22210 EK, 21310 CCK
		70	42	12	M 50x1.5	0.27	**H 310 C**	KM 10	MB 10 C	-	2210-2RS1K
		70	55	12	M 50x1.5	0.34	**H 2310**	KM 10	MB 10	HMV 10	2310 K, 22310 EK
50	55	75	37	12.5	M 55x2	0.28	**H 211**	KM 11	MB 11	HMV 11	1211 EK
		75	45	12.5	M 55x2	0.32	**H 311**	KM 11	MB 11	HMV 11	2211 EK, 1311 EK, 22211 EK, 21311 CCK
		75	45	12.5	M 55x2	0.32	**H 311 C**	KM 11	MB 11 C	-	2211 E-2RS1K
		75	59	12.5	M 55x2	0.39	**H 2311**	KM 11	MB 11	HMV 11	2311 K, 22311 EK
55	60	80	38	13	M 60x2	0.31	**H 212**	KM 12	MB 12	HMV 12	1212 EK
		80	47	13	M 60x2	0.36	**H 312**	KM 12	MB 12	HMV 12	2212 EK, 1312 EK, 22212 EK, 21312 CCK
		80	62	13	M 60x2	0.45	**H 2312**	KM 12	MB 12	HMV 12	2312 K, 22312 EK



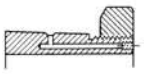
Type H
MB locking device

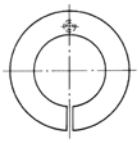
Dimensions						Mass	Designations				
d_1	d	d_3	B_1	B_2	G		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm						kg	–				
60	65	85	40	14	M 65x2	0.36	**H 213**	KM 13	MB 13	-	1213 EK
		85	50	14	M 65x2	0.42	**H 313**	KM 13	MB 13	HMV 13	2213 EK,1313 EK, 22213 EK, 21313 CCK
		85	65	14	M 65x2	0.52	**H 2313**	KM 13	MB 13	HMV 13	2313 K, 22313 EK
	70	92	52	14	M 70x2	0.67	**H 314**	KM 14	MB 14	HMV 14	22214 EK, 21314 CCK
		92	68	14	M 70x2	0.88	**H 2314**	KM 14	MB 14	HMV 14	22314 EK
65	75	98	43	15	M 75x2	0.66	**H 215**	KM 15	MB 15	HMV 15	1215 K
		98	55	15	M 75x2	0.78	**H 315**	KM 15	MB 15	HMV 15	2215 K, 1315 K, 22215 EK, 21315 CCK
		98	73	15	M 75x2	1.1	**H 2315**	KM 15	MB 15	HMV 15	2315 K, 22315 EK
70	80	105	46	17	M 80x2	0.81	**H 216**	KM 16	MB 16	HMV 16	1216 K
		105	59	17	M 80x2	0.95	**H 316**	KM 16	MB 16	HMV 16	2216 EK, 1316 K, 22216 EK, 21316 CCK
		105	78	17	M 80x2	1.2	**H 2316**	KM 16	MB 16	HMV 16	2316 K, 22316 EK
75	85	110	50	18	M 85x2	0.94	**H 217**	KM 17	MB 17	HMV 17	1217 K
		110	63	18	M 85x2	1.1	**H 317**	KM 17	MB 17	HMV 17	2217 K, 1317 K, 22217 EK, 21317 CCK
		110	82	18	M 85x2	1.35	**H 2317**	KM 17	MB 17	HMV 17	2317 K, 22317 EK
80	90	120	52	18	M 90x2	1.1	**H 218**	KM 18	MB 18	HMV 18	1218 K
		120	65	18	M 90x2	1.3	**H 318**	KM 18	MB 18	HMV 18	2218 K, 1318 K, 22218 EK, 21318 CCK
		120	86	18	M 90x2	1.6	**H 2318**	KM 18	MB 18	HMV 18	2318 K, 23218 CCK/W33, 22318 EK
85	95	125	55	19	M 95x2	1.25	**H 219**	KM 19	MB 19	HMV 19	1219 K
		125	68	19	M 95x2	1.4	**H 319**	KM 19	MB 19	HMV 19	2219 K, 1319 K, 22219 EK, 21319 CCK
		125	90	19	M 95x2	1.8	**H 2319**	KM 19	MB 19	HMV 19	2319 K, 22319 EK
90	100	130	58	20	M 100x2	1.4	**H 220**	KM 20	MB 20	HMV 20	1220 K
		130	71	20	M 100x2	1.6	**H 320**	KM 20	MB 20	HMV 20	2220 K, 1320 K, 22220 EK, 21320 CCK
		130	97	20	M 100x2	2	**H 2320**	KM 20	MB 20	HMV 20	2320 K, 23220 CCK/W33, 22320 EK
		130	76	20	M 100x2	1.8	**H 3120**	KM 20	MB 20	HMV 20	23120 CCK/W33
95	105	140	60	20	M 105x2	1.6	**H 221**	KM 21	MB 21	HMV 21	1221 K
		140	74	20	M 105x2	1.85	**H 321**	KM 21	MB 21	HMV 21	2221 K, 1321 K
100	110	145	63	21	M 110x2	1.8	**H 222**	KM 22	MB 22	HMV 22	1222 K
		145	77	21	M 110x2	2.05	**H 322**	KM 22	MB 22	HMV 22	2222 K, 1322 K, 23022 CCK, 22222 EK, 21322 CCK
		145	105	21	M 110x2	2.75	**H 2322**	KM 22	MB 22	HMV 22	2322 K, 23222 CCK/W33, 22322 EK
		145	81	21	M 110x2	2.1	**H 3122**	KM 22	MB 22	HMV 22	23122 CCK/W33
110	120	145	60	22	M 120x2	1.7	**H 3924**	KML 24	MBL 24	HMV 24	23924 CCK/W33
		145	72	22	M 120x2	1.8	**H 3024**	KML 24	MBL 24	HMV 24	1224 K, 23024 CCK/W33
		155	88	22	M 120x2	2.5	**H 3124**	KM 24	MB 24	HMV 24	23124 CCK/W33, 22224 EK
		155	112	22	M 120x2	3	**H 2324**	KM 24	MB 24	HMV 24	23224 CCK/W33, 22324 CCK/W33

Adapter sleeves
d_1 115 – 140 mm

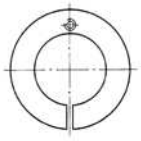


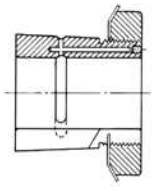
Type H
MB locking device

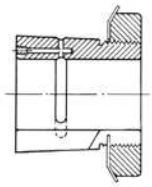

Type OH . . H

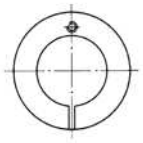


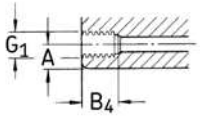

Type OH



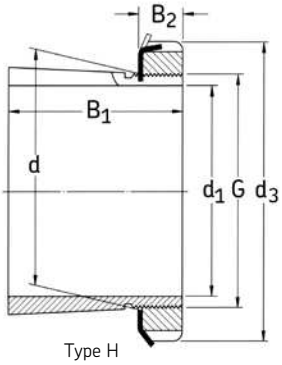

Type OH . . HB
Size 40 and under


Type OH . . B
Size 40 and under

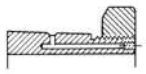


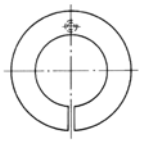


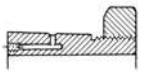
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
115	130	155	65	23	-	-	M 130x2	-	-	2.4	**H 3926**	KML 26	MBL 26	HMV 26	23926 CCK/W33
		155	80	23	-	-	M 130x2	-	-	2.8	**H 3026**	KML 26	MBL 26	HMV 26	23026 CCK/W33
		165	92	23	-	-	M 130x2	-	-	3.45	**H 3126**	KM 26	MB 26	HMV 26	23126 CCK/W33, 22226 EK
		165	121	23	-	-	M 130x2	-	-	4.45	**H 2326**	KM 26	MB 26	HMV 26	23226 CCK/W33, 22326 CCK/W33
125	140	165	66	24	-	-	M 140x2	-	-	2.7	**H 3928**	KML 28	MBL 28	HMV 28	23928 CCK/W33
		165	82	24	-	-	M 140x2	-	-	3.05	**H 3028**	KML 28	MBL 28	HMV 28	23028 CCK/W33
		180	97	24	-	-	M 140x2	-	-	4.1	**H 3128**	KM 28	MB 28	HMV 28	23128 CCK/W33, 22228 CCK/W33
		180	131	24	-	-	M 140x2	-	-	5.4	**H 2328**	KM 28	MB 28	HMV 28	23228 CCK/W33, 22328 CCK/W33
135	150	180	76	26	-	-	M 150x2	-	-	3.6	**H 3930**	KML 30	MBL 30	HMV 30	23930 CCK/W33
		180	87	26	-	-	M 150x2	-	-	3.75	**H 3030**	KML 30	MBL 30	HMV 30	23030 CCK/W33
		195	111	26	-	-	M 150x2	-	-	5.25	**H 3130**	KM 30	MB 30	HMV 30	23130 CCK/W33, 22230 CCK/W33
		195	139	26	-	-	M 150x2	-	-	6.4	**H 2330**	KM 30	MB 30	HMV 30	23230 CCK/W33, 22330 CCK/W33
140	160	190	78	27.5	-	-	M 160x3	-	-	4.6	**H 3932**	KML 32	MBL 32	HMV 32	23932 CCK/W33
		190	78	27.5	9	4.2	M 160x3	M 6	-	4.6	**OH 3932 H**	KML 32	MBL 32	HMV 32	23932 CCK/W33
		190	78	27.5	9	4.2	M 160x3	M 6	-	4.6	**OH 3932 HB**	KML 32	MBL 32	HMV 32	23932 CCK/W33
		190	78	27.5	9	5	M 160x3	M 6	-	4.6	**OH 3932**	KML 32	MBL 32	HMV 32	23932 CCK/W33
		190	78	27.5	9	5	M 160x3	M 6	-	4.6	**OH 3932 B**	KML 32	MBL 32	HMV 32	23932 CCK/W33
		190	93	27.5	-	-	M 160x3	-	-	5.1	**H 3032**	KML 32	MBL 32	HMV 32	23032 CCK/W33
		190	93	27.5	9	4.2	M 160x3	M 6	-	5.1	**OH 3032 H**	KML 32	MBL 32	HMV 32	23032 CCK/W33
		190	93	27.5	9	4.2	M 160x3	M 6	-	5.1	**OH 3032 HB**	KML 32	MBL 32	HMV 32	23032 CCK/W33
		190	93	27.5	9	5	M 160x3	M 6	-	5.1	**OH 3032**	KML 32	MBL 32	HMV 32	23032 CCK/W33
		190	93	27.5	9	5	M 160x3	M 6	-	5.1	**OH 3032 B**	KML 32	MBL 32	HMV 32	23032 CCK/W33
		210	119	28	-	-	M 160x3	-	-	7.25	**H 3132**	KM 32	MB 32	HMV 32	23132 CCK/W33, 22232 CCK/W33
		210	119	28	9	4.2	M 160x3	M 6	-	7.25	**OH 3132 H**	KM 32	MB 32	HMV 32	23132 CCK/W33, 22232 CCK/W33
		210	119	28	9	4.2	M 160x3	M 6	-	7.25	**OH 3132 HB**	KM 32	MB 32	HMV 32	23132 CCK/W33, 22232 CCK/W33
		210	119	28	13	6.8	M 160x3	-	G 1/8	7.25	**OH 3132**	KM 32	MB 32	HMV 32	23132 CCK/W33, 22232 CCK/W33
		210	119	28	13	6.8	M 160x3	-	G 1/8	7.25	**OH 3132 B**	KM 32	MB 32	HMV 32	23132 CCK/W33, 22232 CCK/W33

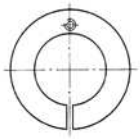


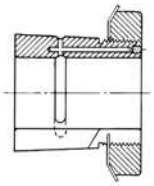
Type H
MB locking device

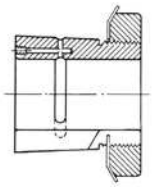

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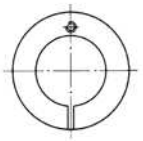


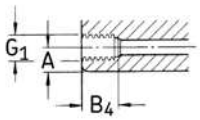

Type OH




Type OH . . HB
Size 40 and under

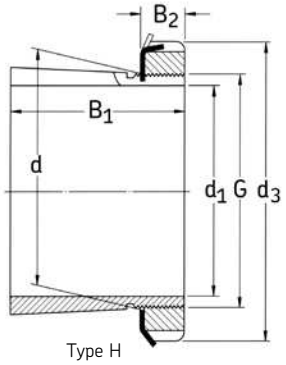

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Size 40 and under



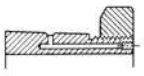


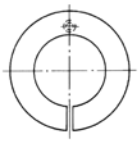
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
140 (cont.)	160	210	147	28	-	-	M 160x3	-	-	8.8	**H 2332**	KM 32	MB 32	HMV 32	23232 CCK/W33, 22332 CCK/W33
		210	147	28	9	4.2	M 160x3	M 6	-	8.8	**OH 2332 H**	KM 32	MB 32	HMV 32	23232 CCK/W33, 22332 CCK/W33
		210	147	28	9	4.2	M 160x3	M 6	-	8.8	**OH 2332 HB**	KM 32	MB 32	HMV 32	23232 CCK/W33, 22332 CCK/W33
		210	147	28	13	7	M 160x3	-	G 1/8	8.8	**OH 2332**	KM 32	MB 32	HMV 32	23232 CCK/W33, 22332 CCK/W33
		210	147	28	13	7	M 160x3	-	G 1/8	8.8	**OH 2332 B**	KM 32	MB 32	HMV 32	23232 CCK/W33, 22332 CCK/W33
150	170	200	79	28.5	-	-	M 170x3	-	-	5	**H 3934**	KML 34	MBL 34	HMV 34	23934 CCK/W33
		200	79	28.5	9	4.2	M 170x3	M 6	-	5	**OH 3934 H**	KML 34	MBL 34	HMV 34	23934 CCK/W33
		200	79	28.5	9	4.2	M 170x3	M 6	-	5	**OH 3934 HB**	KML 34	MBL 34	HMV 34	23934 CCK/W33
		200	79	28.5	9	5	M 170x3	M 6	-	5	**OH 3934**	KML 34	MBL 34	HMV 34	23934 CCK/W33
		200	79	28.5	9	5	M 170x3	M 6	-	5	**OH 3934 B**	KML 34	MBL 34	HMV 34	23934 CCK/W33
		200	101	28.5	-	-	M 170x3	-	-	5.8	**H 3034**	KML 34	MBL 34	HMV 34	23034 CCK/W33
		200	101	28.5	9	4.2	M 170x3	M 6	-	5.8	**OH 3034 H**	KML 34	MBL 34	HMV 34	23034 CCK/W33
		200	101	28.5	9	4.2	M 170x3	M 6	-	5.8	**OH 3034 HB**	KML 34	MBL 34	HMV 34	23034 CCK/W33
		200	101	28.5	9	5	M 170x3	M 6	-	5.8	**OH 3034**	KML 34	MBL 34	HMV 34	23034 CCK/W33
		200	101	28.5	9	5	M 170x3	M 6	-	5.8	**OH 3034 B**	KML 34	MBL 34	HMV 34	23034 CCK/W33
		220	122	29	-	-	M 170x3	-	-	8.1	**H 3134**	KM 34	MB 34	HMV 34	23134 CCK/W33, 22234 CCK/W33
		220	122	29	9	4.2	M 170x3	M 6	-	8.1	**OH 3134 H**	KM 34	MB 34	HMV 34	23134 CCK/W33, 22234 CCK/W33
		220	122	29	9	4.2	M 170x3	M 6	-	8.1	**OH 3134 HB**	KM 34	MB 34	HMV 34	23134 CCK/W33, 22234 CCK/W33
		220	122	29	13	7	M 170x3	-	G 1/8	8.1	**OH 3134**	KM 34	MB 34	HMV 34	23134 CCK/W33, 22234 CCK/W33
		220	122	29	13	7	M 170x3	-	G 1/8	8.1	**OH 3134 B**	KM 34	MB 34	HMV 34	23134 CCK/W33, 22234 CCK/W33
		220	154	29	-	-	M 170x3	-	-	9.9	**H 2334**	KM 34	MB 34	HMV 34	23234 CCK/W33, 22334 CCK/W33
		220	154	29	9	4.2	M 170x3	M 6	-	9.9	**OH 2334 H**	KM 34	MB 34	HMV 34	23234 CCK/W33, 22334 CCK/W33
		220	154	29	9	4.2	M 170x3	M 6	-	9.9	**OH 2334 HB**	KM 34	MB 34	HMV 34	23234 CCK/W33, 22334 CCK/W33
		220	154	29	13	7	M 170x3	-	G 1/8	9.9	**OH 2334**	KM 34	MB 34	HMV 34	23234 CCK/W33, 22334 CCK/W33
		220	154	29	13	7	M 170x3	-	G 1/8	9.9	**OH 2334 B**	KM 34	MB 34	HMV 34	23234 CCK/W33, 22334 CCK/W33

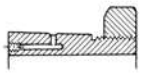
Adapter sleeves
d_1 160 – 170 mm

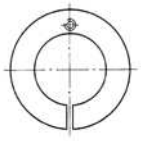


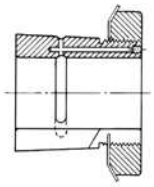
Type H
MB locking device

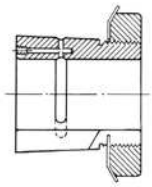

Type OH . . H

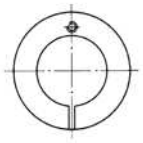


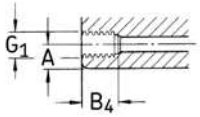

Type OH



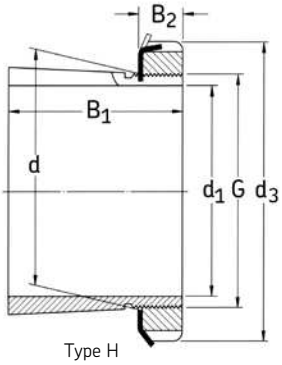

Type OH . . HB
Size 40 and under


Type OH . . B
Size 40 and under

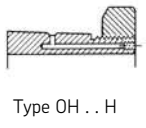


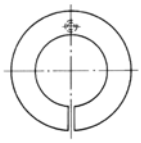


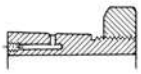
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
160	180	210	87	29.5	-	-	M 180x3	-	-	5.7	**H 3936**	KML 36	MBL 36	HMV 36	23936 CCK/W33
		210	87	29.5	9	4.2	M 180x3	M 6	-	5.7	**OH 3936 H**	KML 36	MBL 36	HMV 36	23936 CCK/W33
		210	87	29.5	9	4.2	M 180x3	M 6	-	5.7	**OH 3936 HB**	KML 36	MBL 36	HMV 36	23936 CCK/W33
		210	87	29.5	9	5	M 180x3	M 6	-	5.7	**OH 3936**	KML 36	MBL 36	HMV 36	23936 CCK/W33
		210	87	29.5	9	5	M 180x3	M 6	-	5.7	**OH 3936 B**	KML 36	MBL 36	HMV 36	23936 CCK/W33
		210	109	29.5	-	-	M 180x3	-	-	6.7	**H 3036**	KML 36	MBL 36	HMV 36	23036 CCK/W33
		210	109	29.5	9	4.2	M 180x3	M 6	-	6.7	**OH 3036 H**	KML 36	MBL 36	HMV 36	23036 CCK/W33
		210	109	29.5	9	4.2	M 180x3	M 6	-	6.7	**OH 3036 HB**	KML 36	MBL 36	HMV 36	23036 CCK/W33
		210	109	29.5	9	5	M 180x3	M 6	-	6.7	**OH 3036**	KML 36	MBL 36	HMV 36	23036 CCK/W33
		210	109	29.5	9	5	M 180x3	M 6	-	6.7	**OH 3036 B**	KML 36	MBL 36	HMV 36	23036 CCK/W33
		230	131	30	-	-	M 180x3	-	-	9.15	**H 3136**	KM 36	MB 36	HMV 36	23136 CCK/W33, 22236 CCK/W33
		230	131	30	9	4.2	M 180x3	M 6	-	9.15	**OH 3136 H**	KM 36	MB 36	HMV 36	23136 CCK/W33, 22236 CCK/W33
		230	131	30	9	4.2	M 180x3	M 6	-	9.15	**OH 3136 HB**	KM 36	MB 36	HMV 36	23136 CCK/W33, 22236 CCK/W33
		230	131	30	13	7	M 180x3	-	G 1/8	9.15	**OH 3136**	KM 36	MB 36	HMV 36	23136 CCK/W33, 22236 CCK/W33
		230	131	30	13	7	M 180x3	-	G 1/8	9.15	**OH 3136 B**	KM 36	MB 36	HMV 36	23136 CCK/W33, 22236 CCK/W33
		230	161	30	-	-	M 180x3	-	-	11	**H 2336**	KM 36	MB 36	HMV 36	23236 CCK/W33, 22336 CCK/W33
		230	161	30	9	4.2	M 180x3	M 6	-	11	**OH 2336 H**	KM 36	MB 36	HMV 36	23236 CCK/W33, 22336 CCK/W33
		230	161	30	9	4.2	M 180x3	M 6	-	11	**OH 2336 HB**	KM 36	MB 36	HMV 36	23236 CCK/W33, 22336 CCK/W33
		230	161	30	13	7	M 180x3	-	G 1/8	11	**OH 2336**	KM 36	MB 36	HMV 36	23236 CCK/W33, 22336 CCK/W33
		230	161	30	13	7	M 180x3	-	G 1/8	11	**OH 2336 B**	KM 36	MB 36	HMV 36	23236 CCK/W33, 22336 CCK/W33
170	190	220	89	30.5	-	-	M 190x3	-	-	6.2	**H 3938**	KML 38	MBL 38	HMV 38	23938 CCK/W33
		220	89	30.5	9	4.2	M 190x3	M 6	-	6.2	**OH 3938 H**	KML 38	MBL 38	HMV 38	23938 CCK/W33
		220	89	30.5	9	4.2	M 190x3	M 6	-	6.2	**OH 3938 HB**	KML 38	MBL 38	HMV 38	23938 CCK/W33
		220	89	30.5	9	5	M 190x3	M 6	-	6.2	**OH 3938**	KML 38	MBL 38	HMV 38	23938 CCK/W33
		220	89	30.5	9	5	M 190x3	M 6	-	6.2	**OH 3938 B**	KML 38	MBL 38	HMV 38	23938 CCK/W33
		220	112	30.5	-	-	M 190x3	-	-	7.25	**H 3038**	KML 38	MBL 38	HMV 38	23038 CCK/W33
		220	112	30.5	9	4.2	M 190x3	M 6	-	7.25	**OH 3038 H**	KML 38	MBL 38	HMV 38	23038 CCK/W33
		220	112	30.5	9	4.2	M 190x3	M 6	-	7.25	**OH 3038 HB**	KML 38	MBL 38	HMV 38	23038 CCK/W33
		220	112	30.5	9	5	M 190x3	M 6	-	7.25	**OH 3038**	KML 38	MBL 38	HMV 38	23038 CCK/W33
		220	112	30.5	9	5	M 190x3	M 6	-	7.25	**OH 3038 B**	KML 38	MBL 38	HMV 38	23038 CCK/W33

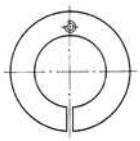


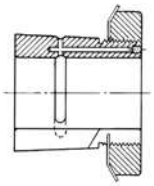
Type H
MB locking device

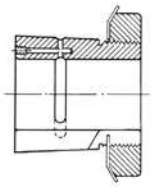

Type OH . . H

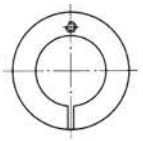


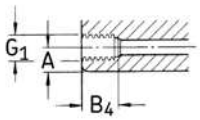

Type OH




Type OH . . HB
Size 40 and under


Type OH . . B
Size 40 and under

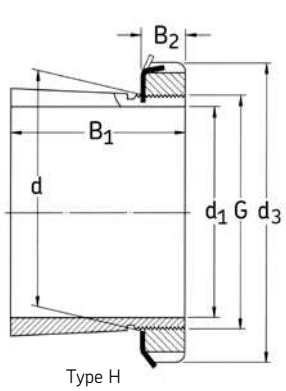




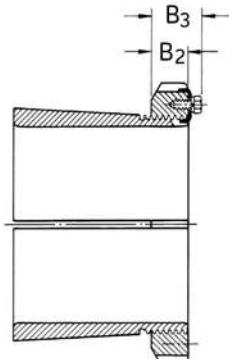
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
170 (cont.)	190	240	141	31	-	-	M 190x3	-	-	10.5	**H 3138**	KM 38	MB 38	HMV 38	23138 CCK/W33, 22238 CCK/W33
		240	141	31	9	4.2	M 190x3	M 6	-	10.5	**OH 3138 H**	KM 38	MB 38	HMV 38	23138 CCK/W33, 22238 CCK/W33
		240	141	31	9	4.2	M 190x3	M 6	-	10.5	**OH 3138 HB**	KM 38	MB 38	HMV 38	23138 CCK/W33, 22238 CCK/W33
		240	141	31	13	7	M 190x3	-	G 1/8	10.5	**OH 3138**	KM 38	MB 38	HMV 38	23138 CCK/W33, 22238 CCK/W33
		240	141	31	13	7	M 190x3	-	G 1/8	10.5	**OH 3138 B**	KM 38	MB 38	HMV 38	23138 CCK/W33, 22238 CCK/W33
		240	169	31	-	-	M 190x3	-	-	12	**H 2338**	KM 38	MB 38	HMV 38	23238 CCK/W33, 22338 CCK/W33
		240	169	31	9	4.2	M 190x3	M 6	-	12	**OH 2338 H**	KM 38	MB 38	HMV 38	23238 CCK/W33, 22338 CCK/W33
		240	169	31	9	4.2	M 190x3	M 6	-	12	**OH 2338 HB**	KM 38	MB 38	HMV 38	23238 CCK/W33, 22338 CCK/W33
		240	169	31	13	7	M 190x3	-	G 1/8	12	**OH 2338**	KM 38	MB 38	HMV 38	23238 CCK/W33, 22338 CCK/W33
		240	169	31	13	7	M 190x3	-	G 1/8	12	**OH 2338 B**	KM 38	MB 38	HMV 38	23238 CCK/W33, 22338 CCK/W33
180	200	240	98	31.5	-	-	M 200x3	-	-	7.9	**H 3940**	KML 40	MBL 40	HMV 40	23940 CCK/W33
		240	98	31.5	9	4.2	M 200x3	M 6	-	7.9	**OH 3940 H**	KML 40	MBL 40	HMV 40	23940 CCK/W33
		240	98	31.5	9	4.2	M 200x3	M 6	-	7.9	**OH 3940 HB**	KML 40	MBL 40	HMV 40	23940 CCK/W33
		240	98	31.5	9	5	M 200x3	M 6	-	7.9	**OH 3940**	KML 40	MBL 40	HMV 40	23940 CCK/W33
		240	98	31.5	9	5	M 200x3	M 6	-	7.9	**OH 3940 B**	KML 40	MBL 40	HMV 40	23940 CCK/W33
		240	120	31.5	-	-	M 200x3	-	-	8.9	**H 3040**	KML 40	MBL 40	HMV 40	23040 CCK/W33
		240	120	31.5	9	4.2	M 200x3	M 6	-	8.9	**OH 3040 H**	KML 40	MBL 40	HMV 40	23040 CCK/W33
		240	120	31.5	9	4.2	M 200x3	M 6	-	8.9	**OH 3040 HB**	KML 40	MBL 40	HMV 40	23040 CCK/W33
		240	120	31.5	13	7	M 200x3	-	G 1/8	8.9	**OH 3040**	KML 40	MBL 40	HMV 40	23040 CCK/W33
		240	120	31.5	13	7	M 200x3	-	G 1/8	8.9	**OH 3040 B**	KML 40	MBL 40	HMV 40	23040 CCK/W33
		250	150	32	-	-	M 200x3	-	-	12	**H 3140**	KM 40	MB 40	HMV 40	23140 CCK/W33, 22240 CCK/W33
		250	150	32	9	4.2	M 200x3	M 6	-	12	**OH 3140 H**	KM 40	MB 40	HMV 40	23140 CCK/W33, 22240 CCK/W33
		250	150	32	9	4.2	M 200x3	M 6	-	12	**OH 3140 HB**	KM 40	MB 40	HMV 40	23140 CCK/W33, 22240 CCK/W33
		250	150	32	13	7.5	M 200x3	-	G 1/8	12	**OH 3140**	KM 40	MB 40	HMV 40	23140 CCK/W33, 22240 CCK/W33
		250	150	32	13	7.5	M 200x3	-	G 1/8	12	**OH 3140 B**	KM 40	MB 40	HMV 40	23140 CCK/W33, 22240 CCK/W33

Adapter sleeves

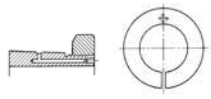
d_1 180 – 200 mm



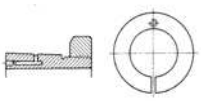
Type H
MB locking device



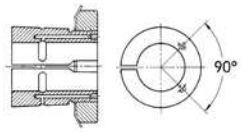
Type H
MS locking device



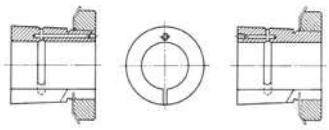
Type OH . . H



Type OH

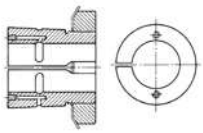


Type OH . . HB
Size 44 to 56

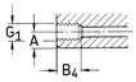


Type OH . . HB
Size 40 and under

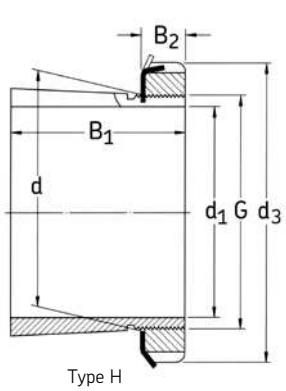
Type OH . . B
Size 40 and under



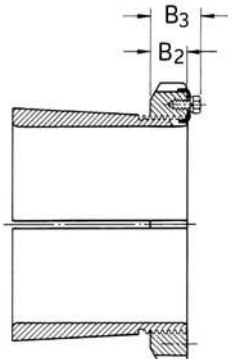
Type OH . . B
Size 44 to 56



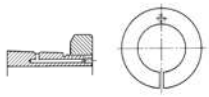
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
180 (Cont.)	200	250	176	32	-	-	-	M 200x3	-	-	13.5	**H 2340**	KM 40	MB 40	HMV 40	23240 CCK/W33, 22340 CCK/W33
		250	176	32	-	9	4.2	M 200x3	M 6	-	13.5	**OH 2340 H**	KM 40	MB 40	HMV 40	23240 CCK/W33, 22340 CCK/W33
		250	176	32	-	9	4.2	M 200x3	M 6	-	13.5	**OH 2340 HB**	KM 40	MB 40	HMV 40	23240 CCK/W33, 22340 CCK/W33
		250	176	32	-	13	8	M 200x3	-	G 1/8	13.5	**OH 2340**	KM 40	MB 40	HMV 40	23240 CCK/W33, 22340 CCK/W33
		250	176	32	-	13	8	M 200x3	-	G 1/8	13.5	**OH 2340 B**	KM 40	MB 40	HMV 40	23240 CCK/W33, 22340 CCK/W33
200	220	260	96	30	41	9	4.2	Tr 220x4	M 6	-	7.95	**OH 3944 H**	HM 3044	MS 3044	HMV 44	23944 CCK/W33
		260	96	30	41	9	4.2	Tr 220x4	M 6	-	7.95	**OH 3944 HB**	HM 3044	MS 3044	HMV 44	23944 CCK/W33
		260	96	30	41	9	5	Tr 220x4	M 6	-	7.95	**OH 3944**	HM 3044	MS 3044	HMV 44	23944 CCK/W33
		260	96	30	41	9	5	Tr 220x4	M 6	-	7.95	**OH 3944 B**	HM 3044	MS 3044	HMV 44	23944 CCK/W33
		260	96	30	41	-	-	Tr 220x4	-	-	7.95	**H 3944**	HM 3044	MS 3044	HMV 44	23944 CCK/W33
		260	126	30	41	9	4.2	Tr 220x4	M 6	-	9.90	**OH 3044 H**	HM 3044	MS 3044	HMV 44	23044 CCK/W33
		260	126	30	41	9	4.2	Tr 220x4	M 6	-	9.90	**OH 3044 HB**	HM 3044	MS 3044	HMV 44	23044 CCK/W33
		260	126	30	41	13	7	Tr 220x4	-	G 1/8	9.90	**OH 3044**	HM 3044	MS 3044	HMV 44	23044 CCK/W33
		260	126	30	41	13	7	Tr 220x4	-	G 1/8	9.90	**OH 3044 B**	HM 3044	MS 3044	HMV 44	23044 CCK/W33
		260	126	30	41	-	-	Tr 220x4	-	-	9.90	**H 3044**	HM 3044	MS 3044	HMV 44	23044 CCK/W33
		280	161	35	-	9	4.2	Tr 220x4	M 6	-	15.0	**OH 3144 H**	HM 44 T	MB 44	HMV 44	23144 CCK/W33, 22244 CCK/W33
		280	161	35	-	9	4.2	Tr 220x4	M 6	-	15.0	**OH 3144 HB**	HM 44 T	MB 44	HMV 44	23144 CCK/W33, 22244 CCK/W33
		280	161	35	-	13	8	Tr 220x4	-	G 1/8	15.0	**OH 3144**	HM 44 T	MB 44	HMV 44	23144 CCK/W33, 22244 CCK/W33
		280	161	35	-	13	8	Tr 220x4	-	G 1/8	15.0	**OH 3144 B**	HM 44 T	MB 44	HMV 44	23144 CCK/W33, 22244 CCK/W33
		280	161	35	-	-	-	Tr 220x4	-	-	15.0	**H 3144**	HM 44 T	MB 44	HMV 44	23144 CCK/W33, 22244 CCK/W33
		280	186	35	-	9	4.2	Tr 220x4	M 6	-	17.0	**OH 2344 H**	HM 44 T	MB 44	HMV 44	23244 CCK/W33, 22344 CCK/W33
		280	186	35	-	9	4.2	Tr 220x4	M 6	-	17.0	**OH 2344 HB**	HM 44 T	MB 44	HMV 44	23244 CCK/W33, 22344 CCK/W33
		280	186	35	-	13	8.5	Tr 220x4	-	G 1/8	17.0	**OH 2344**	HM 44 T	MB 44	HMV 44	23244 CCK/W33, 22344 CCK/W33
		280	186	35	-	13	8.5	Tr 220x4	-	G 1/8	17.0	**OH 2344 B**	HM 44 T	MB 44	HMV 44	23244 CCK/W33, 22344 CCK/W33
		280	186	35	-	-	-	Tr 220x4	-	-	17.0	**H 2344**	HM 44 T	MB 44	HMV 44	23244 CCK/W33, 22344 CCK/W33

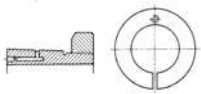


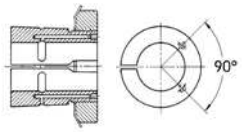
Type H
MB locking device



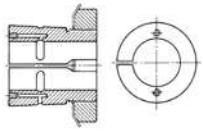
Type H
MS locking device

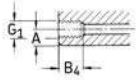

Type OH . . H


Type OH



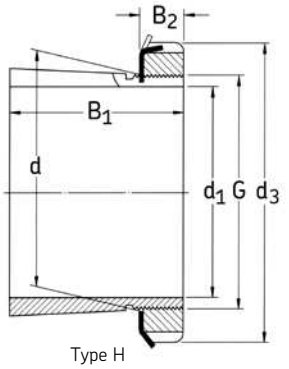
Type OH . . HB
Size 44 to 56


Type OH . . B
Size 44 to 56

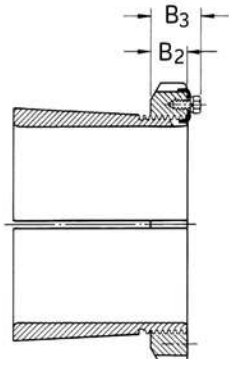


Dimensions											Mass	Designations				
												Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1							
mm										in	kg	–				
220	240	290	101	34	46	9	4.2	Tr 240x4	M 6	-	11	**OH 3948 H**	HM 3048	MS 3052-48	HMV 48	23948 CCK/W33
		290	101	34	46	9	4.2	Tr 240x4	M 6	-	11	**OH 3948 HB**	HM 3048	MS 3052-48	HMV 48	23948 CCK/W33
		290	101	34	46	13	6.5	Tr 240x4	-	G 1/8	11	**OH 3948**	HM 3048	MS 3052-48	HMV 48	23948 CCK/W33
		290	101	34	46	13	6.5	Tr 240x4	-	G 1/8	11	**OH 3948 B**	HM 3048	MS 3052-48	HMV 48	23948 CCK/W33
		290	101	34	46	-	-	Tr 240x4	-	-	11	**H 3948**	HM 3048	MS 3052-48	HMV 48	23948 CCK/W33
		290	133	34	46	9	4.2	Tr 240x4	M 6	-	12	**OH 3048 H**	HM 3048	MS 3052-48	HMV 48	23048 CCK/W33
		290	133	34	46	9	4.2	Tr 240x4	M 6	-	12	**OH 3048 HB**	HM 3048	MS 3052-48	HMV 48	23048 CCK/W33
		290	133	34	46	13	7	Tr 240x4	-	G 1/8	12	**OH 3048**	HM 3048	MS 3052-48	HMV 48	23048 CCK/W33
		290	133	34	46	13	7	Tr 240x4	-	G 1/8	12	**OH 3048 B**	HM 3048	MS 3052-48	HMV 48	23048 CCK/W33
		290	133	34	46	-	-	Tr 240x4	-	-	12	**H 3048**	HM 3048	MS 3052-48	HMV 48	23048 CCK/W33
		300	172	37	-	9	4.2	Tr 240x4	M 6	-	16	**OH 3148 H**	HM 48 T	MB 48	HMV 48	23148 CCK/W33, 22248 CCK/W33
		300	172	37	-	9	4.2	Tr 240x4	M 6	-	16	**OH 3148 HB**	HM 48 T	MB 48	HMV 48	23148 CCK/W33, 22248 CCK/W33
		300	172	37	-	13	8	Tr 240x4	-	G 1/8	16	**OH 3148**	HM 48 T	MB 48	HMV 48	23148 CCK/W33, 22248 CCK/W33
		300	172	37	-	13	8	Tr 240x4	-	G 1/8	16	**OH 3148 B**	HM 48 T	MB 48	HMV 48	23148 CCK/W33, 22248 CCK/W33
		300	172	37	-	-	-	Tr 240x4	-	-	16	**H 3148**	HM 48 T	MB 48	HMV 48	23148 CCK/W33, 22248 CCK/W33
		300	199	37	-	9	4.2	Tr 240x4	M 6	-	19	**OH 2348 H**	HM 48 T	MB 48	HMV 48	23248 CCK/W33, 22348 CCK/W33
		300	199	37	-	9	4.2	Tr 240x4	M 6	-	19	**OH 2348 HB**	HM 48 T	MB 48	HMV 48	23248 CCK/W33, 22348 CCK/W33
		300	199	37	-	13	9.5	Tr 240x4	-	G 1/8	19	**OH 2348**	HM 48 T	MB 48	HMV 48	23248 CCK/W33, 22348 CCK/W33
		300	199	37	-	13	9.5	Tr 240x4	-	G 1/8	19	**OH 2348 B**	HM 48 T	MB 48	HMV 48	23248 CCK/W33, 22348 CCK/W33
		300	199	37	-	-	-	Tr 240x4	-	-	19	**H 2348**	HM 48 T	MB 48	HMV 48	23248 CCK/W33, 22348 CCK/W33
240	260	310	116	34	46	9	4.2	Tr 260x4	M 6	-	11.7	**OH 3952 H**	HM 3052	MS 3052-48	HMV 52	23952 CCK/W33
		310	116	34	46	9	4.2	Tr 260x4	M 6	-	11.7	**OH 3952 HB**	HM 3052	MS 3052-48	HMV 52	23952 CCK/W33
		310	116	34	46	13	7	Tr 260x4	-	G 1/8	11.7	**OH 3952**	HM 3052	MS 3052-48	HMV 52	23952 CCK/W33
		310	116	34	46	13	7	Tr 260x4	-	G 1/8	11.7	**OH 3952 B**	HM 3052	MS 3052-48	HMV 52	23952 CCK/W33
		310	116	34	46	-	-	Tr 260x4	-	-	11.7	**H 3952**	HM 3052	MS 3052-48	HMV 52	23952 CCK/W33
		310	145	34	46	9	4.2	Tr 260x4	M 6	-	13.5	**OH 3052 H**	HM 3052	MS 3052-48	HMV 52	23052 CCK/W33
		310	145	34	46	9	4.2	Tr 260x4	M 6	-	13.5	**OH 3052 HB**	HM 3052	MS 3052-48	HMV 52	23052 CCK/W33
		310	145	34	46	13	7.5	Tr 260x4	-	G 1/8	13.5	**OH 3052**	HM 3052	MS 3052-48	HMV 52	23052 CCK/W33
		310	145	34	46	13	7.5	Tr 260x4	-	G 1/8	13.5	**OH 3052 B**	HM 3052	MS 3052-48	HMV 52	23052 CCK/W33
		310	145	34	46	-	-	Tr 260x4	-	-	13.5	**H 3052**	HM 3052	MS 3052-48	HMV 52	23052 CCK/W33

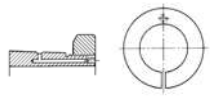
Adapter sleeves
d_1 240 – 260 mm

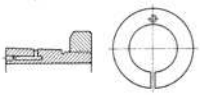


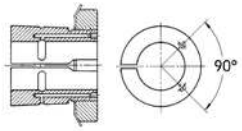
Type H
MB locking device



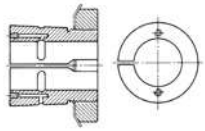
Type H
MS locking device

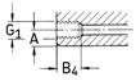

Type OH . . H


Type OH

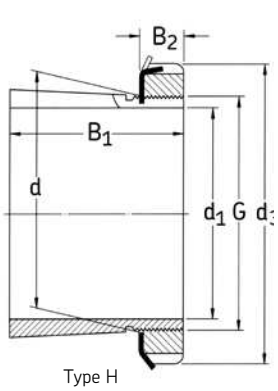


Type OH . . HB
Size 44 to 56

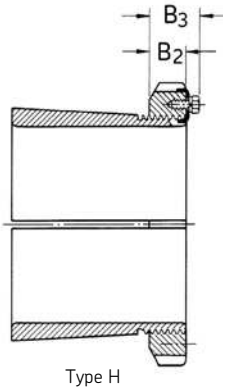

Type OH . . B
Size 44 to 56



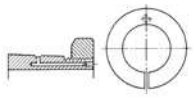
Dimensions											Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm										in	kg	–				
240 (Cont.)	260	330	190	39	-	9	4.2	Tr 260x4	M 6	-	21	**OH 3152 H**	HM 52 T	MB 52	HMV 52	23152 CCK/W33, 22252 CACK/W33
		330	190	39	-	9	4.2	Tr 260x4	M 6	-	21	**OH 3152 HB**	HM 52 T	MB 52	HMV 52	23152 CCK/W33, 22252 CACK/W33
		330	190	39	-	13	8	Tr 260x4	-	G 1/8	21	**OH 3152**	HM 52 T	MB 52	HMV 52	23152 CCK/W33, 22252 CACK/W33
		330	190	39	-	13	8	Tr 260x4	-	G 1/8	21	**OH 3152 B**	HM 52 T	MB 52	HMV 52	23152 CCK/W33, 22252 CACK/W33
		330	190	39	-	-	-	Tr 260x4	-	-	21	**H 3152**	HM 52 T	MB 52	HMV 52	23152 CCK/W33, 22252 CACK/W33
		330	211	39	-	9	4.2	Tr 260x4	M 6	-	23	**OH 2352 H**	HM 52 T	MB 52	HMV 52	23252 CACK/W33, 22352 CCK/W33
		330	211	39	-	9	4.2	Tr 260x4	M 6	-	23	**OH 2352 HB**	HM 52 T	MB 52	HMV 52	23252 CACK/W33, 22352 CCK/W33
		330	211	39	-	13	9	Tr 260x4	-	G 1/8	23	**OH 2352**	HM 52 T	MB 52	HMV 52	23252 CACK/W33, 22352 CCK/W33
		330	211	39	-	13	9	Tr 260x4	-	G 1/8	23	**OH 2352 B**	HM 52 T	MB 52	HMV 52	23252 CACK/W33, 22352 CCK/W33
		330	211	39	-	-	-	Tr 260x4	-	-	23	**H 2352**	HM 52 T	MB 52	HMV 52	23252 CACK/W33, 22352 CCK/W33
260	280	330	121	38	50	9	4.2	Tr 280x4	M 6	-	15.3	**OH 3956 H**	HM 3056	MS 3056	HMV 56	23956 CCK/W33
		330	121	38	50	9	4.2	Tr 280x4	M 6	-	15.3	**OH 3956 HB**	HM 3056	MS 3056	HMV 56	23956 CCK/W33
		330	121	38	50	13	7	Tr 280x4	-	G 1/8	15.3	**OH 3956**	HM 3056	MS 3056	HMV 56	23956 CCK/W33
		330	121	38	50	13	7	Tr 280x4	-	G 1/8	15.3	**OH 3956 B**	HM 3056	MS 3056	HMV 56	23956 CCK/W33
		330	121	38	50	-	-	Tr 280x4	-	-	15.3	**H 3956**	HM 3056	MS 3056	HMV 56	23956 CCK/W33
		330	152	38	50	9	4.2	Tr 280x4	M 6	-	16	**OH 3056 H**	HM 3056	MS 3056	HMV 56	23056 CCK/W33
		330	152	38	50	9	4.2	Tr 280x4	M 6	-	16	**OH 3056 HB**	HM 3056	MS 3056	HMV 56	23056 CCK/W33
		330	152	38	50	13	7.5	Tr 280x4	-	G 1/8	16	**OH 3056**	HM 3056	MS 3056	HMV 56	23056 CCK/W33
		330	152	38	50	13	7.5	Tr 280x4	-	G 1/8	16	**OH 3056 B**	HM 3056	MS 3056	HMV 56	23056 CCK/W33
		330	152	38	50	-	-	Tr 280x4	-	-	16	**H 3056**	HM 3056	MS 3056	HMV 56	23056 CCK/W33
		350	195	41	-	9	4.2	Tr 280x4	M 6	-	23	**OH 3156 H**	HM 56 T	MB 56	HMV 56	23156 CCK/W33, 22256 CACK/W33
		350	195	41	-	9	4.2	Tr 280x4	M 6	-	23	**OH 3156 HB**	HM 56 T	MB 56	HMV 56	23156 CCK/W33, 22256 CACK/W33
		350	195	41	-	13	8	Tr 280x4	-	G 1/8	23	**OH 3156**	HM 56 T	MB 56	HMV 56	23156 CCK/W33, 22256 CACK/W33
		350	195	41	-	13	8	Tr 280x4	-	G 1/8	23	**OH 3156 B**	HM 56 T	MB 56	HMV 56	23156 CCK/W33, 22256 CACK/W33
		350	195	41	-	-	-	Tr 280x4	-	-	23	**H 3156**	HM 56 T	MB 56	HMV 56	23156 CCK/W33, 22256 CACK/W33

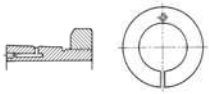


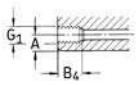
Type H
MB locking device

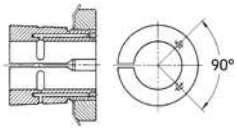


Type H
MS locking device

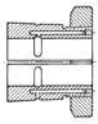

Type OH . . H

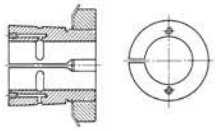

Type OH

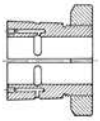




Type OH . . HB
Size 44 to 56

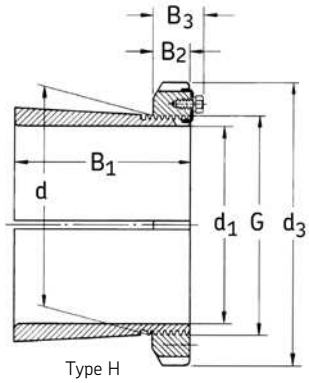

Type OH . . HB
Size 60 and over


Type OH . . B
Size 44 to 56

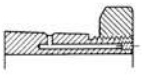

Type OH . . B
Size 60 and over

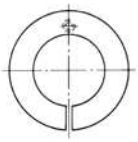
Dimensions											Mass	Designations				
												Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1							
mm										in	kg	–				
260 (cont.)	280	350	224	41	-	9	4.2	Tr 280x4	M 6	-	27	**OH 2356 H**	HM 56 T	MB 56	HMV 56	23256 CACK/W33, 22356 CCK/W33
		350	224	41	-	9	4.2	Tr 280x4	M 6	-	27	**OH 2356 HB**	HM 56 T	MB 56	HMV 56	23256 CACK/W33, 22356 CCK/W33
		350	224	41	-	13	9.5	Tr 280x4	-	G 1/8	27	**OH 2356**	HM 56 T	MB 56	HMV 56	23256 CACK/W33, 22356 CCK/W33
		350	224	41	-	13	9.5	Tr 280x4	-	G 1/8	27	**OH 2356 B**	HM 56 T	MB 56	HMV 56	23256 CACK/W33, 22356 CCK/W33
		350	224	41	-	-	-	Tr 280x4	-	-	27	**H 2356**	HM 56 T	MB 56	HMV 56	23256 CACK/W33, 22356 CCK/W33
280	300	360	140	42	54	9	4.2	Tr 300x4	M 6	-	20	**OH 3960 H**	HM 3060	MS 3060	HMV 60	23960 CCK/W33
		360	140	42	54	9	4.2	Tr 300x4	M 6	-	20	**OH 3960 HB**	HM 3060	MS 3060	HMV 60	23960 CCK/W33
		360	140	42	54	13	7	Tr 300x4	-	G 1/8	20	**OH 3960**	HM 3060	MS 3060	HMV 60	23960 CCK/W33
		360	140	42	54	13	7	Tr 300x4	-	G 1/8	20	**OH 3960 B**	HM 3060	MS 3060	HMV 60	23960 CCK/W33
		360	140	42	54	-	-	Tr 300x4	-	-	20	**H 3960**	HM 3060	MS 3060	HMV 60	23960 CCK/W33
		360	168	42	54	9	4.2	Tr 300x4	M 6	-	20.5	**OH 3060 H**	HM 3060	MS 3060	HMV 60	23060 CCK/W33
		360	168	42	54	9	4.2	Tr 300x4	M 6	-	20.5	**OH 3060 HB**	HM 3060	MS 3060	HMV 60	23060 CCK/W33
		360	168	42	54	13	7.5	Tr 300x4	-	G 1/8	20.5	**OH 3060**	HM 3060	MS 3060	HMV 60	23060 CCK/W33
		360	168	42	54	13	7.5	Tr 300x4	-	G 1/8	20.5	**OH 3060 B**	HM 3060	MS 3060	HMV 60	23060 CCK/W33
		360	168	42	54	-	-	Tr 300x4	-	-	20.5	**H 3060**	HM 3060	MS 3060	HMV 60	23060 CCK/W33
		380	208	40	53	9	4.2	Tr 300x4	M 6	-	29	**OH 3160 H**	HM 3160	MS 3160	HMV 60	23160 CCK/W33, 22260 CACK/W33
		380	208	40	53	9	4.2	Tr 300x4	M 6	-	29	**OH 3160 HB**	HM 3160	MS 3160	HMV 60	23160 CCK/W33, 22260 CACK/W33
		380	208	40	53	13	9	Tr 300x4	-	G 1/8	29	**OH 3160**	HM 3160	MS 3160	HMV 60	23160 CCK/W33, 22260 CACK/W33
		380	208	40	53	13	9	Tr 300x4	-	G 1/8	29	**OH 3160 B**	HM 3160	MS 3160	HMV 60	23160 CCK/W33, 22260 CACK/W33
		380	208	40	53	-	-	Tr 300x4	-	-	29	**H 3160**	HM 3160	MS 3160	HMV 60	23160 CCK/W33, 22260 CACK/W33
		380	240	40	53	9	4.2	Tr 300x4	M 6	-	32	**OH 3260 H**	HM 3160	MS 3160	HMV 60	23260 CACK/W33
		380	240	40	53	9	4.2	Tr 300x4	M 6	-	32	**OH 3260 HB**	HM 3160	MS 3160	HMV 60	23260 CACK/W33
		380	240	40	53	15	9	Tr 300x4	-	G 1/4	32	**OH 3260**	HM 3160	MS 3160	HMV 60	23260 CACK/W33
		380	240	40	53	15	9	Tr 300x4	-	G 1/4	32	**OH 3260 B**	HM 3160	MS 3160	HMV 60	23260 CACK/W33
		380	240	40	53	-	-	Tr 300x4	-	-	32	**H 3260**	HM 3160	MS 3160	HMV 60	23260 CACK/W33
300	320	380	140	42	55	9	4	Tr 320x5	M 6	-	21.5	**OH 3964 H**	HM 3064	MS 3068-64	HMV 64	23964 CACK/W33
		380	140	42	55	9	4	Tr 320x5	M 6	-	21.5	**OH 3964 HB**	HM 3064	MS 3068-64	HMV 64	23964 CACK/W33
		380	140	42	55	13	7	Tr 320x5	-	G 1/8	21.5	**OH 3964**	HM 3064	MS 3068-64	HMV 64	23964 CACK/W33
		380	140	42	55	13	7	Tr 320x5	-	G 1/8	21.5	**OH 3964 B**	HM 3064	MS 3068-64	HMV 64	23964 CACK/W33
		380	140	42	55	-	-	Tr 320x5	-	-	21.5	**H 3964**	HM 3064	MS 3068-64	HMV 64	23964 CACK/W33

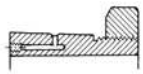
Adapter sleeves
d_1 300 – 320 mm

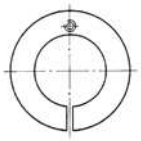


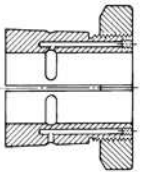
Type H
MS locking device

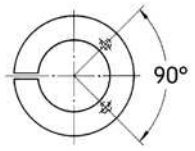

Type OH . . H

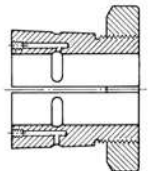


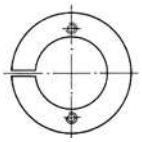

Type OH

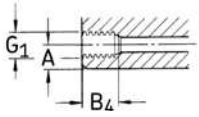



Type OH . . HB
Size 60 and over

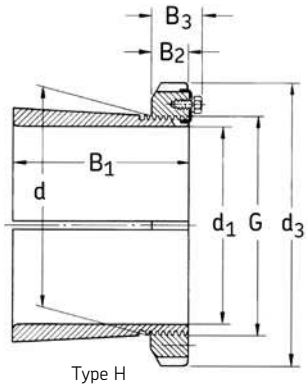



Type OH . . B
Size 60 and over

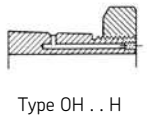




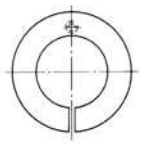
Dimensions											Mass	Designations				
												Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1							
mm										in	kg	–				
300	320	380	171	42	55	9	4	Tr 320x5	M 6	-	22	**OH 3064 H**	HM 3064	MS 3068-64	HMV 64	23064 CCK/W33
(cont.)		380	171	42	55	9	4	Tr 320x5	M 6	-	22	**OH 3064 HB**	HM 3064	MS 3068-64	HMV 64	23064 CCK/W33
		380	171	42	55	13	7.5	Tr 320x5	-	G 1/8	22	**OH 3064**	HM 3064	MS 3068-64	HMV 64	23064 CCK/W33
		380	171	42	55	13	7.5	Tr 320x5	-	G 1/8	22	**OH 3064 B**	HM 3064	MS 3068-64	HMV 64	23064 CCK/W33
		380	171	42	55	-	-	Tr 320x5	-	-	22	**H 3064**	HM 3064	MS 3068-64	HMV 64	23064 CCK/W33
		400	226	42	56	9	4	Tr 320x5	M 6	-	32	**OH 3164 H**	HM 3164	MS 3164	HMV 64	23164 CCK/W33, 22264 CACK/W33
		400	226	42	56	9	4	Tr 320x5	M 6	-	32	**OH 3164 HB**	HM 3164	MS 3164	HMV 64	23164 CCK/W33, 22264 CACK/W33
		400	226	42	56	13	9.5	Tr 320x5	-	G 1/8	32	**OH 3164**	HM 3164	MS 3164	HMV 64	23164 CCK/W33, 22264 CACK/W33
		400	226	42	56	13	9.5	Tr 320x5	-	G 1/8	32	**OH 3164 B**	HM 3164	MS 3164	HMV 64	23164 CCK/W33, 22264 CACK/W33
		400	226	42	56	-	-	Tr 320x5	-	-	32	**H 3164**	HM 3164	MS 3164	HMV 64	23164 CCK/W33, 22264 CACK/W33
		400	258	42	56	9	4	Tr 320x5	M 6	-	35	**OH 3264 H**	HM 3164	MS 3164	HMV 64	23264 CACK/W33
		400	258	42	56	9	4	Tr 320x5	M 6	-	35	**OH 3264 HB**	HM 3164	MS 3164	HMV 64	23264 CACK/W33
		400	258	42	56	15	9	Tr 320x5	-	G 1/4	35	**OH 3264**	HM 3164	MS 3164	HMV 64	23264 CACK/W33
		400	258	42	56	15	9	Tr 320x5	-	G 1/4	35	**OH 3264 B**	HM 3164	MS 3164	HMV 64	23264 CACK/W33
		400	258	42	56	-	-	Tr 320x5	-	-	35	**H 3264**	HM 3164	MS 3164	HMV 64	23264 CACK/W33
320	340	400	144	45	58	9	4	Tr 340x5	M 6	-	24.5	**OH 3968 H**	HM 3068	MS 3068-64	HMV 68	23968 CCK/W33
		400	144	45	58	9	4	Tr 340x5	M 6	-	24.5	**OH 3968 HB**	HM 3068	MS 3068-64	HMV 68	23968 CCK/W33
		400	144	45	58	13	7	Tr 340x5	-	G 1/8	24.5	**OH 3968**	HM 3068	MS 3068-64	HMV 68	23968 CCK/W33
		400	144	45	58	13	7	Tr 340x5	-	G 1/8	24.5	**OH 3968 B**	HM 3068	MS 3068-64	HMV 68	23968 CCK/W33
		400	144	45	58	-	-	Tr 340x5	-	-	24.5	**H 3968**	HM 3068	MS 3068-64	HMV 68	23968 CCK/W33
		400	187	45	58	9	4	Tr 340x5	M 6	-	27	**OH 3068 H**	HM 3068	MS 3068-64	HMV 68	23068 CCK/W33
		400	187	45	58	9	4	Tr 340x5	M 6	-	27	**OH 3068 HB**	HM 3068	MS 3068-64	HMV 68	23068 CCK/W33
		400	187	45	58	13	8	Tr 340x5	-	G 1/8	27	**OH 3068**	HM 3068	MS 3068-64	HMV 68	23068 CCK/W33
		400	187	45	58	13	8	Tr 340x5	-	G 1/8	27	**OH 3068 B**	HM 3068	MS 3068-64	HMV 68	23068 CCK/W33
		400	187	45	58	-	-	Tr 340x5	-	-	27	**H 3068**	HM 3068	MS 3068-64	HMV 68	23068 CCK/W33
		440	254	55	72	9	4	Tr 340x5	M 6	-	50	**OH 3168 H**	HM 3168	MS 3172-68	HMV 68	23168 CCK/W33
		440	254	55	72	9	4	Tr 340x5	M 6	-	50	**OH 3168 HB**	HM 3168	MS 3172-68	HMV 68	23168 CCK/W33
		440	254	55	72	15	9.5	Tr 340x5	-	G 1/4	50	**H 3168**	HM 3168	MS 3172-68	HMV 68	23168 CCK/W33
		440	254	55	72	15	9.5	Tr 340x5	-	G 1/4	50	**OH 3168 B**	HM 3168	MS 3172-68	HMV 68	23168 CCK/W33
		440	254	55	72	-	-	Tr 340x5	-	-	50	**H 3168**	HM 3168	MS 3172-68	HMV 68	23168 CCK/W33
		440	288	55	72	9	4	Tr 340x5	M 6	-	51.5	**OH 3268 H**	HM 3168	MS 3172-68	HMV 68	23268 CAK/W33
		440	288	55	72	9	4	Tr 340x5	M 6	-	51.5	**OH 3268 HB**	HM 3168	MS 3172-68	HMV 68	23268 CAK/W33
		440	288	55	72	15	10	Tr 340x5	-	G 1/4	51.5	**OH 3268**	HM 3168	MS 3172-68	HMV 68	23268 CAK/W33
		440	288	55	72	15	10	Tr 340x5	-	G 1/4	51.5	**OH 3268 B**	HM 3168	MS 3172-68	HMV 68	23268 CAK/W33
		440	288	55	72	-	-	Tr 340x5	-	-	51.5	**H 3268**	HM 3168	MS 3172-68	HMV 68	23268 CAK/W33

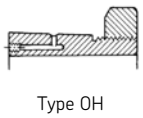


Type H
MS locking device

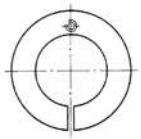


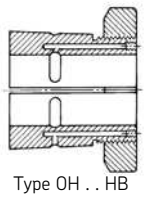
Type OH . . H



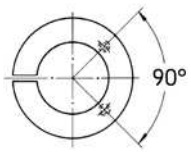


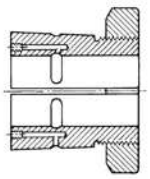
Type OH



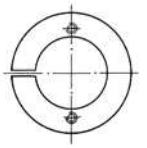


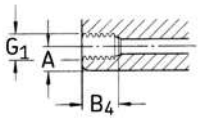
Type OH . . HB
Size 60 and over





Type OH . . B
Size 60 and over

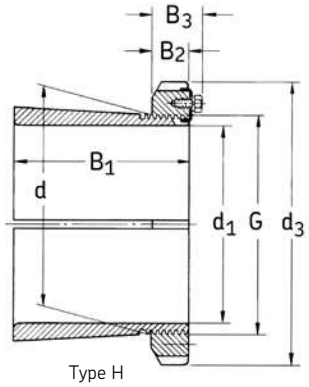




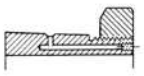
Dimensions											Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm										in	kg	–				
340	360	420	144	45	58	9	4	Tr 360x5	M 6	-	25.2	**OH 3972 H**	HM 3072	MS 3072	HMV 72	23972 CACK/W33
		420	144	45	58	9	4	Tr 360x5	M 6	-	25.2	**OH 3972 HB**	HM 3072	MS 3072	HMV 72	23972 CACK/W33
		420	144	45	58	13	7	Tr 360x5	-	G 1/8	25.2	**OH 3972**	HM 3072	MS 3072	HMV 72	23972 CACK/W33
		420	144	45	58	13	7	Tr 360x5	-	G 1/8	25.2	**OH 3972 B**	HM 3072	MS 3072	HMV 72	23972 CACK/W33
		420	144	45	58	-	-	Tr 360x5	-	-	25.2	**H 3972**	HM 3072	MS 3072	HMV 72	23972 CACK/W33
		420	188	45	58	9	4	Tr 360x5	M 6	-	29	**OH 3072 H**	HM 3072	MS 3072	HMV 72	23072 CCK/W33
		420	188	45	58	9	4	Tr 360x5	M 6	-	29	**OH 3072 HB**	HM 3072	MS 3072	HMV 72	23072 CCK/W33
		420	188	45	58	13	8	Tr 360x5	-	G 1/8	29	**OH 3072**	HM 3072	MS 3072	HMV 72	23072 CCK/W33
		420	188	45	58	13	8	Tr 360x5	-	G 1/8	29	**OH 3072B**	HM 3072	MS 3072	HMV 72	23072 CCK/W33
		420	188	45	58	-	-	Tr 360x5	-	-	29	**H 3072**	HM 3072	MS 3072	HMV 72	23072 CCK/W33
		460	259	58	75	9	4	Tr 360x5	M 6	-	56	**OH 3172 H**	HM 3172	MS 3172-68	HMV 72	23172 CACK/W33
		460	259	58	75	9	4	Tr 360x5	M 6	-	56	**OH 3172 HB**	HM 3172	MS 3172-68	HMV 72	23172 CACK/W33
		460	259	58	75	15	9.5	Tr 360x5	-	G 1/4	56	**OH 3172**	HM 3172	MS 3172-68	HMV 72	23172 CACK/W33
		460	259	58	75	15	9.5	Tr 360x5	-	G 1/4	56	**OH 3172 B**	HM 3172	MS 3172-68	HMV 72	23172 CACK/W33
		460	259	58	75	-	-	Tr 360x5	-	-	56	**H 3172**	HM 3172	MS 3172-68	HMV 72	23172 CACK/W33
		460	299	58	75	9	4	Tr 360x5	M 6	-	60.5	**OH 3272 H**	HM 3172	MS 3172-68	HMV 72	23272 CAK/W33
		460	299	58	75	9	4	Tr 360x5	M 6	-	60.5	**OH 3272 HB**	HM 3172	MS 3172-68	HMV 72	23272 CAK/W33
		460	299	58	75	15	10	Tr 360x5	-	G 1/4	60.5	**OH 3272**	HM 3172	MS 3172-68	HMV 72	23272 CAK/W33
		460	299	58	75	15	10	Tr 360x5	-	G 1/4	60.5	**OH 3272 B**	HM 3172	MS 3172-68	HMV 72	23272 CAK/W33
		460	299	58	75	-	-	Tr 360x5	-	-	60.5	**H 3272**	HM 3172	MS 3172-68	HMV 72	23272 CAK/W33
360	380	450	164	48	62	9	4	Tr 380x5	M 6	-	31.5	**OH 3976 H**	HM 3076	MS 3080-76	HMV 76	23976 CCK/W33
		450	164	48	62	9	4	Tr 380x5	M 6	-	31.5	**OH 3976 HB**	HM 3076	MS 3080-76	HMV 76	23976 CCK/W33
		450	164	48	62	13	7.5	Tr 380x5	-	G 1/8	31.5	**OH 3976**	HM 3076	MS 3080-76	HMV 76	23976 CCK/W33
		450	164	48	62	13	7.5	Tr 380x5	-	G 1/8	31.5	**OH 3976 B**	HM 3076	MS 3080-76	HMV 76	23976 CCK/W33
		450	164	48	62	-	-	Tr 380x5	-	-	31.5	**H 3976**	HM 3076	MS 3080-76	HMV 76	23976 CCK/W33
		450	193	48	62	9	4	Tr 380x5	M 6	-	35.5	**OH 3076 H**	HM 3076	MS 3080-76	HMV 76	23076 CCK/W33
		450	193	48	62	9	4	Tr 380x5	M 6	-	35.5	**OH 3076 HB**	HM 3076	MS 3080-76	HMV 76	23076 CCK/W33
		450	193	48	62	13	8	Tr 380x5	-	G 1/8	35.5	**OH 3076**	HM 3076	MS 3080-76	HMV 76	23076 CCK/W33
		450	193	48	62	13	8	Tr 380x5	-	G 1/8	35.5	**OH 3076 B**	HM 3076	MS 3080-76	HMV 76	23076 CCK/W33
		450	193	48	62	-	-	Tr 380x5	-	-	35.5	**H 3076**	HM 3076	MS 3080-76	HMV 76	23076 CCK/W33
		490	264	60	77	9	4	Tr 380x5	M 6	-	61.5	**OH 3176 H**	HM 3176	MS 3176	HMV 76	23176 CAK/W33
		490	264	60	77	9	4	Tr 380x5	M 6	-	61.5	**OH 3176 HB**	HM 3176	MS 3176	HMV 76	23176 CAK/W33
		490	264	60	77	15	9.5	Tr 380x5	-	G 1/4	61.5	**OH 3176**	HM 3176	MS 3176	HMV 76	23176 CAK/W33
		490	264	60	77	15	9.5	Tr 380x5	-	G 1/4	61.5	**OH 3176 B**	HM 3176	MS 3176	HMV 76	23176 CAK/W33
		490	264	60	77	-	-	Tr 380x5	-	-	61.5	**H 3176**	HM 3176	MS 3176	HMV 76	23176 CAK/W33
		490	310	60	77	9	4	Tr 380x5	M 6	-	69.5	**OH 3276 H**	HM 3176	MS 3176	HMV 76	23276 CAK/W33
		490	310	60	77	9	4	Tr 380x5	M 6	-	69.5	**OH 3276 HB**	HM 3176	MS 3176	HMV 76	23276 CAK/W33
		490	310	60	77	15	10.5	Tr 380x5	-	G 1/4	69.5	**OH 3276**	HM 3176	MS 3176	HMV 76	23276 CAK/W33
		490	310	60	77	15	10.5	Tr 380x5	-	G 1/4	69.5	**OH 3276 B**	HM 3176	MS 3176	HMV 76	23276 CAK/W33
		490	310	60	77	-	-	Tr 380x5	-	-	69.5	**H 3276**	HM 3176	MS 3176	HMV 76	23276 CAK/W33

Adapter sleeves

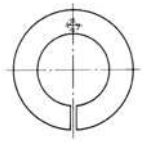
d_1 380 – 400 mm

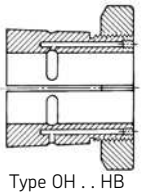


Type H
MS locking device

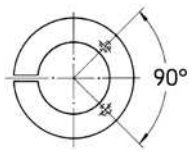


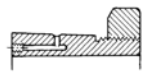
Type OH . . H



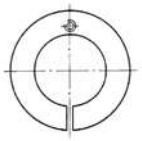


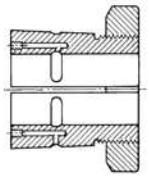
Type OH . . HB
Size 60 and over



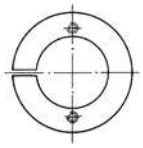


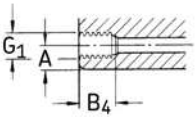
Type OH



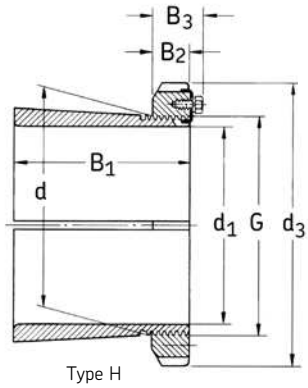


Type OH . . B
Size 60 and over





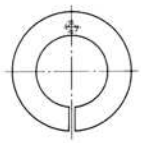
Dimensions											Mass	Designations				
												Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1							
mm										in	kg	–				
380	400	470	168	52	66	9	4	Tr 400x5	M 6	-	35	**OH 3980 H**	HM 3080	MS 3080-76	HMV 80	23980 CACK/W33
		470	168	52	66	9	4	Tr 400x5	M 6	-	35	**OH 3980 HB**	HM 3080	MS 3080-76	HMV 80	23980 CACK/W33
		470	168	52	66	13	7.5	Tr 400x5	-	G 1/8	35	**OH 3980**	HM 3080	MS 3080-76	HMV 80	23980 CACK/W33
		470	168	52	66	13	7.5	Tr 400x5	-	G 1/8	35	**OH 3980 B**	HM 3080	MS 3080-76	HMV 80	23980 CACK/W33
		470	168	52	66	-	-	Tr 400x5	-	-	35	**H 3980**	HM 3080	MS 3080-76	HMV 80	23980 CACK/W33
		470	210	52	66	9	4	Tr 400x5	M 6	-	40	**OH 3080 H**	HM 3080	MS 3080-76	HMV 80	23080 CACK/W33
		470	210	52	66	9	4	Tr 400x5	M 6	-	40	**OH 3080 HB**	HM 3080	MS 3080-76	HMV 80	23080 CACK/W33
		470	210	52	66	13	8.5	Tr 400x5	-	G 1/8	40	**OH 3080**	HM 3080	MS 3080-76	HMV 80	23080 CACK/W33
		470	210	52	66	13	8.5	Tr 400x5	-	G 1/8	40	**OH 3080 B**	HM 3080	MS 3080-76	HMV 80	23080 CACK/W33
		470	210	52	66	-	-	Tr 400x5	-	-	40	**H 3080**	HM 3080	MS 3080-76	HMV 80	23080 CACK/W33
		520	272	62	82	9	4	Tr 400x5	M 6	-	73	**OH 3180 H**	HM 3180	MS 3184-80	HMV 80	23180 CAK/W33
		520	272	62	82	9	4	Tr 400x5	M 6	-	73	**OH 3180 HB**	HM 3180	MS 3184-80	HMV 80	23180 CAK/W33
		520	272	62	82	15	9.5	Tr 400x5	-	G 1/4	73	**OH 3180**	HM 3180	MS 3184-80	HMV 80	23180 CAK/W33
		520	272	62	82	15	9.5	Tr 400x5	-	G 1/4	73	**OH 3180 B**	HM 3180	MS 3184-80	HMV 80	23180 CAK/W33
		520	272	62	82	-	-	Tr 400x5	-	-	73	**H 3180**	HM 3180	MS 3184-80	HMV 80	23180 CAK/W33
		520	328	62	82	9	4	Tr 400x5	M 6	-	87	**OH 3280 H**	HM 3180	MS 3184-80	HMV 80	23280 CAK/W33
		520	328	62	82	9	4	Tr 400x5	M 6	-	87	**OH 3280 HB**	HM 3180	MS 3184-80	HMV 80	23280 CAK/W33
		520	328	62	82	15	11	Tr 400x5	-	G 1/4	87	**OH 3280**	HM 3180	MS 3184-80	HMV 80	23280 CAK/W33
		520	328	62	82	15	11	Tr 400x5	-	G 1/4	87	**OH 3280 B**	HM 3180	MS 3184-80	HMV 80	23280 CAK/W33
		520	328	62	82	-	-	Tr 400x5	-	-	87	**H 3280**	HM 3180	MS 3184-80	HMV 80	23280 CAK/W33
400	420	490	168	52	66	9	4	Tr 420x5	M 6	-	36	**OH 3984 H**	HM 3084	MS 3084	HMV 84	23984 CACK/W33
		490	168	52	66	9	4	Tr 420x5	M 6	-	36	**OH 3984 HB**	HM 3084	MS 3084	HMV 84	23984 CACK/W33
		490	168	52	66	13	7.5	Tr 420x5	-	G 1/8	36	**OH 3984**	HM 3084	MS 3084	HMV 84	23984 CACK/W33
		490	168	52	66	13	7.5	Tr 420x5	-	G 1/8	36	**OH 3984B**	HM 3084	MS 3084	HMV 84	23984 CACK/W33
		490	168	52	66	-	-	Tr 420x5	-	-	36	**H 3984**	HM 3084	MS 3084	HMV 84	23984 CACK/W33
		490	212	52	66	9	4	Tr 420x5	M 6	-	47	**OH 3084 H**	HM 3084	MS 3084	HMV 84	23084 CAK/W33
		490	212	52	66	9	4	Tr 420x5	M 6	-	47	**OH 3084 HB**	HM 3084	MS 3084	HMV 84	23084 CAK/W33
		490	212	52	66	13	8.5	Tr 420x5	-	G 1/8	47	**OH 3084**	HM 3084	MS 3084	HMV 84	23084 CAK/W33
		490	212	52	66	13	8.5	Tr 420x5	-	G 1/8	47	**OH 3084 B**	HM 3084	MS 3084	HMV 84	23084 CAK/W33
		490	212	52	66	-	-	Tr 420x5	-	-	47	**H 3084**	HM 3084	MS 3084	HMV 84	23084 CAK/W33
		540	304	70	90	9	4	Tr 420x5	M 6	-	80	**OH 3184 H**	HM 3184	MS 3184-80	HMV 84	23184 CK/W33
		540	304	70	90	9	4	Tr 420x5	M 6	-	80	**OH 3184 HB**	HM 3184	MS 3184-80	HMV 84	23184 CK/W33
		540	304	70	90	15	10.5	Tr 420x5	-	G 1/4	80	**OH 3184**	HM 3184	MS 3184-80	HMV 84	23184 CK/W33
		540	304	70	90	15	10.5	Tr 420x5	-	G 1/4	80	**OH 3184 B**	HM 3184	MS 3184-80	HMV 84	23184 CK/W33
		540	304	70	90	-	-	Tr 420x5	-	-	80	**H 3184**	HM 3184	MS 3184-80	HMV 84	23184 CK/W33
		540	352	70	90	9	4	Tr 420x5	M 6	-	96	**OH 3284 H**	HM 3184	MS 3184-80	HMV 84	23284 CAK/W33
		540	352	70	90	9	4	Tr 420x5	M 6	-	96	**OH 3284 HB**	HM 3184	MS 3184-80	HMV 84	23284 CAK/W33
		540	352	70	90	15	11	Tr 420x5	-	G 1/4	96	**OH 3284**	HM 3184	MS 3184-80	HMV 84	23284 CAK/W33
		540	352	70	90	15	11	Tr 420x5	-	G 1/4	96	**OH 3284 B**	HM 3184	MS 3184-80	HMV 84	23284 CAK/W33
		540	352	70	90	-	-	Tr 420x5	-		96	**H 3284**	HM 3184	MS 3184-80	HMV 84	23284 CAK/W33

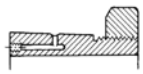


Type H
MS locking device



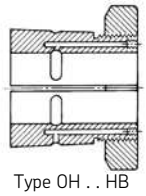
Type OH . . H



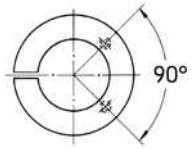


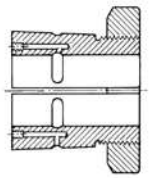
Type OH



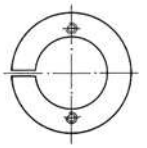


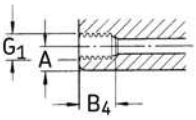
Type OH . . HB
Size 60 and over





Type OH . . B
Size 60 and over

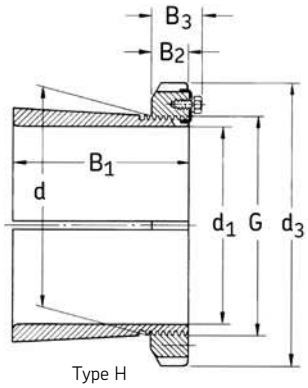




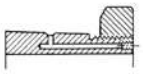
Dimensions											Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm										in	kg	–				
410	440	520	189	60	77	12	6.5	Tr 440x5	M 8	-	58	**OH 3988 H**	HM 3088	MS 3092-88	HMV 88	23988 CACK/W33
		520	189	60	77	12	6.5	Tr 440x5	M 8	-	58	**OH 3988 HB**	HM 3088	MS 3092-88	HMV 88	23988 CACK/W33
		520	189	60	77	15	10	Tr 440x5	-	G 1/4	58	**OH 3988**	HM 3088	MS 3092-88	HMV 88	23988 CACK/W33
		520	189	60	77	15	10	Tr 440x5	-	G 1/4	58	**OH 3988 B**	HM 3088	MS 3092-88	HMV 88	23988 CACK/W33
		520	189	60	77	-	-	Tr 440x5	-	-	58	**H 3988**	HM 3088	MS 3092-88	HMV 88	23988 CACK/W33
		520	228	60	77	12	6.5	Tr 440x5	M 8	-	65	**OH 3088 H**	HM 3088	MS 3092-88	HMV 88	23088 CAK/W33
		520	228	60	77	12	6.5	Tr 440x5	M 8	-	65	**OH 3088 HB**	HM 3088	MS 3092-88	HMV 88	23088 CAK/W33
		520	228	60	77	15	11	Tr 440x5	-	G 1/4	65	**OH 3088**	HM 3088	MS 3092-88	HMV 88	23088 CAK/W33
		520	228	60	77	15	11	Tr 440x5	-	G 1/4	65	**OH 3088 B**	HM 3088	MS 3092-88	HMV 88	23088 CAK/W33
		520	228	60	77	-	-	Tr 440x5	-	-	65	**H 3088**	HM 3088	MS 3092-88	HMV 88	23088 CAK/W33
		560	307	70	90	12	6.5	Tr 440x5	M 8	-	95	**OH 3188 H**	HM 3188	MS 3192-88	HMV 88	23188 CAK/W33
		560	307	70	90	12	6.5	Tr 440x5	M 8	-	95	**OH 3188 HB**	HM 3188	MS 3192-88	HMV 88	23188 CAK/W33
		560	307	70	90	15	14	Tr 440x5	-	G 1/4	95	**OH 3188**	HM 3188	MS 3192-88	HMV 88	23188 CAK/W33
		560	307	70	90	15	14	Tr 440x5	-	G 1/4	95	**OH 3188 B**	HM 3188	MS 3192-88	HMV 88	23188 CAK/W33
		560	307	70	90	-	-	Tr 440x5	-	-	95	**H 3188**	HM 3188	MS 3192-88	HMV 88	23188 CAK/W33
		560	361	70	90	12	6.5	Tr 440x5	M 8	-	117	**OH 3288 H**	HM 3188	MS 3192-88	HMV 88	23288 CAK/W33
		560	361	70	90	12	6.5	Tr 440x5	M 8	-	117	**OH 3288 HB**	HM 3188	MS 3192-88	HMV 88	23288 CAK/W33
		560	361	70	90	15	16	Tr 440x5	-	G 1/4	117	**OH 3288**	HM 3188	MS 3192-88	HMV 88	23288 CAK/W33
		560	361	70	90	15	16	Tr 440x5	-	G 1/4	117	**OH 3288 B**	HM 3188	MS 3192-88	HMV 88	23288 CAK/W33
		560	361	70	90	-	-	Tr 440x5	-	-	117	**H 3288**	HM 3188	MS 3192-88	HMV 88	23288 CAK/W33
430	460	540	189	60	77	12	6.5	Tr 460x5	M 8	-	60	**OH 3992 H**	HM 3092	MS 3092-88	HMV 92	23992 CAK/W33
		540	189	60	77	12	6.5	Tr 460x5	M 8	-	60	**OH 3992 HB**	HM 3092	MS 3092-88	HMV 92	23992 CAK/W33
		540	189	60	77	15	10	Tr 460x5	-	G 1/4	60	**OH 3992**	HM 3092	MS 3092-88	HMV 92	23992 CAK/W33
		540	189	60	77	15	10	Tr 460x5	-	G 1/4	60	**OH 3992 B**	HM 3092	MS 3092-88	HMV 92	23992 CAK/W33
		540	189	60	77	-	-	Tr 460x5	-	-	60	**H 3992**	HM 3092	MS 3092-88	HMV 92	23992 CAK/W33
		540	234	60	77	12	6.5	Tr 460x5	M 8	-	71	**OH 3092 H**	HM 3092	MS 3092-88	HMV 92	23092 CAK/W33
		540	234	60	77	12	6.5	Tr 460x5	M 8	-	71	**OH 3092 HB**	HM 3092	MS 3092-88	HMV 92	23092 CAK/W33
		540	234	60	77	15	11	Tr 460x5	-	G 1/4	71	**OH 3092**	HM 3092	MS 3092-88	HMV 92	23092 CAK/W33
		540	234	60	77	15	11	Tr 460x5	-	G 1/4	71	**OH 3092 B**	HM 3092	MS 3092-88	HMV 92	23092 CAK/W33
		540	234	60	77	-	-	Tr 460x5	-	-	71	**H 3092**	HM 3092	MS 3092-88	HMV 92	23092 CAK/W33
		580	326	75	95	12	6.5	Tr 460x5	M 8	-	119	**OH 3192 H**	HM 3192	MS 3192-88	HMV 92	23192 CAK/W33
		580	326	75	95	12	6.5	Tr 460x5	M 8	-	119	**OH 3192 HB**	HM 3192	MS 3192-88	HMV 92	23192 CAK/W33
		580	326	75	95	15	14	Tr 460x5	-	G 1/4	119	**OH 3192**	HM 3192	MS 3192-88	HMV 92	23192 CAK/W33
		580	326	75	95	15	14	Tr 460x5	-	G 1/4	119	**OH 3192 B**	HM 3192	MS 3192-88	HMV 92	23192 CAK/W33
		580	326	75	95	-	-	Tr 460x5	-	-	119	**H 3192**	HM 3192	MS 3192-88	HMV 92	23192 CAK/W33
		580	382	75	95	12	6.5	Tr 460x5	M 8	-	134	**OH 3292 H**	HM 3192	MS 3192-88	HMV 92	23292 CAK/W33
		580	382	75	95	12	6.5	Tr 460x5	M 8	-	134	**OH 3292 HB**	HM 3192	MS 3192-88	HMV 92	23292 CAK/W33
		580	382	75	95	15	17	Tr 460x5	-	G 1/4	134	**OH 3292**	HM 3192	MS 3192-88	HMV 92	23292 CAK/W33
		580	382	75	95	15	17	Tr 460x5	-	G 1/4	134	**OH 3292 B**	HM 3192	MS 3192-88	HMV 92	23292 CAK/W33
		580	382	75	95	-	-	Tr 460x5	-	-	134	**H 3292**	HM 3192	MS 3192-88	HMV 92	23292 CAK/W33

Adapter sleeves

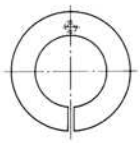
d_1 450 – 470 mm

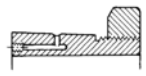


Type H
MS locking device



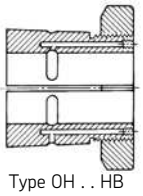
Type OH . . H



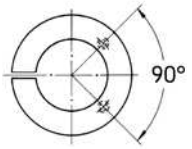


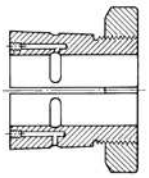
Type OH



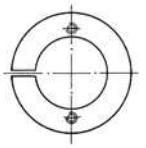


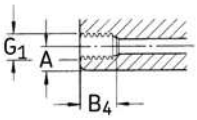
Type OH . . HB
Size 60 and over



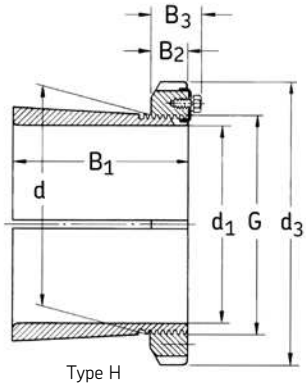


Type OH . . B
Size 60 and over

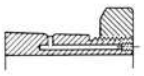


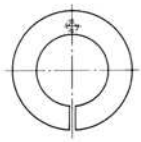


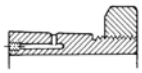
Dimensions											Mass	Designations				
												Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1							
mm										in	kg	–				
450	480	560	200	60	77	12	6.5	Tr 480x5	M 8	-	66	**OH 3996 H**	HM 3096	MS 30/500-96	HMV 96	23996 CAK/W33
		560	200	60	77	12	6.5	Tr 480x5	M 8	-	66	**OH 3996 HB**	HM 3096	MS 30/500-96	HMV 96	23996 CAK/W33
		560	200	60	77	15	10	Tr 480x5	-	G 1/4	66	**OH 3996**	HM 3096	MS 30/500-96	HMV 96	23996 CAK/W33
		560	200	60	77	15	10	Tr 480x5	-	G 1/4	66	**OH 3996 B**	HM 3096	MS 30/500-96	HMV 96	23996 CAK/W33
		560	200	60	77	-	-	Tr 480x5	-	-	66	**H 3996**	HM 3096	MS 30/500-96	HMV 96	23996 CAK/W33
		560	237	60	77	12	6.5	Tr 480x5	M 8	-	75	**OH 3096 H**	HM 3096	MS 30/500-96	HMV 96	23096 CAK/W33
		560	237	60	77	12	6.5	Tr 480x5	M 8	-	75	**OH 3096 HB**	HM 3096	MS 30/500-96	HMV 96	23096 CAK/W33
		560	237	60	77	15	11	Tr 480x5	-	G 1/4	75	**OH 3096**	HM 3096	MS 30/500-96	HMV 96	23096 CAK/W33
		560	237	60	77	15	11	Tr 480x5	-	G 1/4	75	**OH 3096 B**	HM 3096	MS 30/500-96	HMV 96	23096 CAK/W33
		560	237	60	77	-	-	Tr 480x5	-	-	75	**H 3096**	HM 3096	MS 30/500-96	HMV 96	23096 CAK/W33
		620	335	75	95	12	6.5	Tr 480x5	M 8	-	135	**OH 3196 H**	HM 3196	MS 3196	HMV 96	23196 CAK/W33
		620	335	75	95	12	6.5	Tr 480x5	M 8	-	135	**OH 3196 HB**	HM 3196	MS 3196	HMV 96	23196 CAK/W33
		620	335	75	95	15	14	Tr 480x5	-	G 1/4	135	**OH 3196**	HM 3196	MS 3196	HMV 96	23196 CAK/W33
		620	335	75	95	15	14	Tr 480x5	-	G 1/4	135	**OH 3196 B**	HM 3196	MS 3196	HMV 96	23196 CAK/W33
		620	335	75	95	-	-	Tr 480x5	-	-	135	**H 3196**	HM 3196	MS 3196	HMV 96	23196 CAK/W33
		620	397	75	95	12	6.5	Tr 480x5	M 8	-	153	**OH 3296 H**	HM 3196	MS 3196	HMV 96	23296 CAK/W33
		620	397	75	95	12	6.5	Tr 480x5	M 8	-	153	**OH 3296 HB**	HM 3196	MS 3196	HMV 96	23296 CAK/W33
		620	397	75	95	15	17	Tr 480x5	-	G 1/4	153	**OH 3296**	HM 3196	MS 3196	HMV 96	23296 CAK/W33
		620	397	75	95	15	17	Tr 480x5	-	G 1/4	153	**OH 3296 B**	HM 3196	MS 3196	HMV 96	23296 CAK/W33
		620	397	75	95	-	-	Tr 480x5	-	-	153	**H 3296**	HM 3196	MS 3196	HMV 96	23296 CAK/W33
470	500	580	208	68	85	12	6.5	Tr 500x5	M 8	-	74.3	**OH 39/500 H**	HM 30/500	MS 30/500-96	HMV 100	239/500 CAK/W33
		580	208	68	85	12	6.5	Tr 500x5	M 8	-	74.3	**OH 39/500 HB**	HM 30/500	MS 30/500-96	HMV 100	239/500 CAK/W33
		580	208	68	85	15	10	Tr 500x5	-	G 1/4	74.3	**OH 39/500**	HM 30/500	MS 30/500-96	HMV 100	239/500 CAK/W33
		580	208	68	85	15	10	Tr 500x5	-	G 1/4	74.3	**OH 39/500B**	HM 30/500	MS 30/500-96	HMV 100	239/500 CAK/W33
		580	208	68	85	-	-	Tr 500x5	-	-	74.3	**H 39/500**	HM 30/500	MS 30/500-96	HMV 100	239/500 CAK/W33
		580	247	68	85	12	6.5	Tr 500x5	M 8	-	82	**OH 30/500 H**	HM 30/500	MS 30/500-96	HMV 100	230/500 CAK/W33
		580	247	68	85	12	6.5	Tr 500x5	M 8	-	82	**OH 30/500 HB**	HM 30/500	MS 30/500-96	HMV 100	230/500 CAK/W33
		580	247	68	85	15	11	Tr 500x5	-	G 1/4	82	**OH 30/500**	HM 30/500	MS 30/500-96	HMV 100	230/500 CAK/W33
		580	247	68	85	15	11	Tr 500x5	-	G 1/4	82	**OH 30/500 B**	HM 30/500	MS 30/500-96	HMV 100	230/500 CAK/W33
		580	247	68	85	-	-	Tr 500x5	-	-	82	**H 30/500**	HM 30/500	MS 30/500-96	HMV 100	230/500 CAK/W33
		630	356	80	100	12	6.5	Tr 500x5	M 8	-	145	**OH 31/500 H**	HM 31/500	MS 31/500	HMV 100	231/500 CAK/W33
		630	356	80	100	12	6.5	Tr 500x5	M 8	-	145	**OH 31/500 HB**	HM 31/500	MS 31/500	HMV 100	231/500 CAK/W33
		630	356	80	100	15	15	Tr 500x5	-	G 1/4	145	**OH 31/500**	HM 31/500	MS 31/500	HMV 100	231/500 CAK/W33
		630	356	80	100	15	15	Tr 500x5	-	G 1/4	145	**OH 31/500 B**	HM 31/500	MS 31/500	HMV 100	231/500 CAK/W33
		630	356	80	100	-	-	Tr 500x5	-	-	145	**H 31/500**	HM 31/500	MS 31/500	HMV 100	231/500 CAK/W33
		630	428	80	100	12	6	Tr 500x5	M 8	-	170	**OH 32/500 H**	HM 31/500	MS 31/500	HMV 100	232/500 CAK/W33
		630	428	80	100	12	6	Tr 500x5	M 8	-	170	**OH 32/500 HB**	HM 31/500	MS 31/500	HMV 100	232/500 CAK/W33
		630	428	80	100	15	18	Tr 500x5	-	G 1/4	170	**OH 32/500**	HM 31/500	MS 31/500	HMV 100	232/500 CAK/W33
		630	428	80	100	15	18	Tr 500x5	-	G 1/4	170	**OH 32/500 B**	HM 31/500	MS 31/500	HMV 100	232/500 CAK/W33
		630	428	80	100	-	-	Tr 500x5	-	-	170	**H 32/500**	HM 31/500	MS 31/500	HMV 100	232/500 CAK/W33

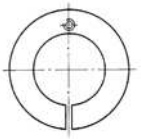


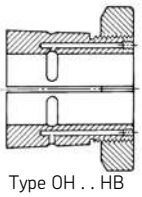
Type H
MS locking device

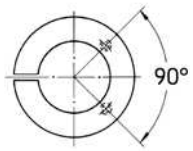

Type OH . . H

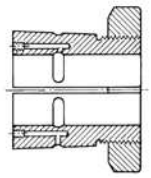


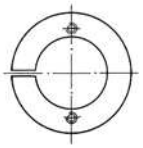

Type OH

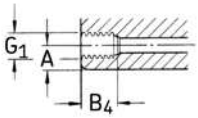



Type OH . . HB
Size 60 and over




Type OH . . B
Size 60 and over

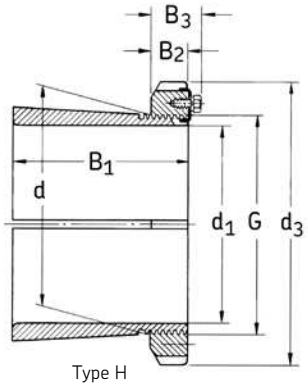




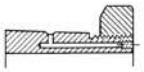
Dimensions											Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1			Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm										in	kg	–				
500	530	630	216	68	90	12	6	Tr 530x6	M 8	-	87.9	**OH 39/530 H**	HM 30/530	MS 30/600-530	HMV 106	239/530 CAK/W33
		630	216	68	90	12	6	Tr 530x6	M 8	-	87.9	**OH 39/530 HB**	HM 30/530	MS 30/600-530	HMV 106	239/530 CAK/W33
		630	216	68	90	15	11	Tr 530x6	-	G 1/4	87.9	**OH 39/530**	HM 30/530	MS 30/600-530	HMV 106	239/530 CAK/W33
		630	216	68	90	15	11	Tr 530x6	-	G 1/4	87.9	**OH 39/530 B**	HM 30/530	MS 30/600-530	HMV 106	239/530 CAK/W33
		630	216	68	90	-	-	Tr 530x6	-	-	87.9	**H 39/530**	HM 30/530	MS 30/600-530	HMV 106	239/530 CAK/W33
		630	265	68	90	12	6	Tr 530x6	M 8	-	105	**OH 30/530 H**	HM 30/530	MS 30/600-530	HMV 106	230/530 CAK/W33
		630	265	68	90	12	6	Tr 530x6	M 8	-	105	**OH 30/530 HB**	HM 30/530	MS 30/600-530	HMV 106	230/530 CAK/W33
		630	265	68	90	15	13	Tr 530x6	-	G 1/4	105	**OH 30/530**	HM 30/530	MS 30/600-530	HMV 106	230/530 CAK/W33
		630	265	68	90	15	13	Tr 530x6	-	G 1/4	105	**OH 30/530 B**	HM 30/530	MS 30/600-530	HMV 106	230/530 CAK/W33
		630	265	68	90	-	-	Tr 530x6	-	-	105	**H 30/530**	HM 30/530	MS 30/600-530	HMV 106	230/530 CAK/W33
		670	364	80	105	12	6	Tr 530x6	M 8	-	161	**OH 31/530 H**	HM 31/530	MS 31/530	HMV 106	231/530 CAK/W33
		670	364	80	105	12	6	Tr 530x6	M 8	-	161	**OH 31/530 HB**	HM 31/530	MS 31/530	HMV 106	231/530 CAK/W33
		670	364	80	105	15	15	Tr 530x6	-	G 1/4	161	**OH 31/530**	HM 31/530	MS 31/530	HMV 106	231/530 CAK/W33
		670	364	80	105	15	15	Tr 530x6	-	G 1/4	161	**OH 31/530 B**	HM 31/530	MS 31/530	HMV 106	231/530 CAK/W33
		670	364	80	105	-	-	Tr 530x6	-	-	161	**H 31/530**	HM 31/530	MS 31/530	HMV 106	231/530 CAK/W33
		670	447	80	105	12	6	Tr 530x6	M 8	-	192	**OH 32/530 H**	HM 31/530	MS 31/530	HMV 106	232/530 CAK/W33
		670	447	80	105	12	6	Tr 530x6	M 8	-	192	**OH 32/530 HB**	HM 31/530	MS 31/530	HMV 106	232/530 CAK/W33
		670	447	80	105	15	19	Tr 530x6	-	G 1/4	192	**OH 32/530**	HM 31/530	MS 31/530	HMV 106	232/530 CAK/W33
		670	447	80	105	15	19	Tr 530x6	-	G 1/4	192	**OH 32/530 B**	HM 31/530	MS 31/530	HMV 106	232/530 CAK/W33
		670	447	80	105	-	-	Tr 530x6	-	-	192	**H 32/530**	HM 31/530	MS 31/530	HMV 106	232/530 CAK/W33
530	560	650	227	75	97	12	6	Tr 560x6	M 8	-	95	**OH 39/560 H**	HM 30/560	MS 30/560	HMV 112	239/560 CAK/W33
		650	227	75	97	12	6	Tr 560x6	M 8	-	95	**OH 39/560 HB**	HM 30/560	MS 30/560	HMV 112	239/560 CAK/W33
		650	227	75	97	15	11	Tr 560x6	-	G 1/4	95	**OH 39/560**	HM 30/560	MS 30/560	HMV 112	239/560 CAK/W33
		650	227	75	97	15	11	Tr 560x6	-	G 1/4	95	**OH 39/560 B**	HM 30/560	MS 30/560	HMV 112	239/560 CAK/W33
		650	227	75	97	-	-	Tr 560x6	-	-	95	**H 39/560**	HM 30/560	MS 30/560	HMV 112	239/560 CAK/W33
		650	282	75	97	12	6	Tr 560x6	M 8	-	112	**OH 30/560 H**	HM 30/560	MS 30/560	HMV 112	230/560 CAK/W33
		650	282	75	97	12	6	Tr 560x6	M 8	-	112	**OH 30/560 HB**	HM 30/560	MS 30/560	HMV 112	230/560 CAK/W33
		650	282	75	97	15	13	Tr 560x6	-	G 1/4	112	**OH 30/560**	HM 30/560	MS 30/560	HMV 112	230/560 CAK/W33
		650	282	75	97	15	13	Tr 560x6	-	G 1/4	112	**OH 30/560 B**	HM 30/560	MS 30/560	HMV 112	230/560 CAK/W33
		650	282	75	97	-	-	Tr 560x6	-	-	112	**H3 0/560**	HM 30/560	MS 30/560	HMV 112	230/560 CAK/W33
		710	377	85	110	12	6	Tr 560x6	M 8	-	185	**OH 31/560 H**	HM 31/560	MS 31/600-560	HMV 112	231/560 CAK/W33
		710	377	85	110	12	6	Tr 560x6	M 8	-	185	**OH 31/560 HB**	HM 31/560	MS 31/600-560	HMV 112	231/560 CAK/W33
		710	377	85	110	15	16	Tr 560x6	-	G 1/4	185	**OH 31/560**	HM 31/560	MS 31/600-560	HMV 112	231/560 CAK/W33
		710	377	85	110	15	16	Tr 560x6	-	G 1/4	185	**OH 31/560 B**	HM 31/560	MS 31/600-560	HMV 112	231/560 CAK/W33
		710	377	85	110	-	-	Tr 560x6	-	-	185	**H 31/560**	HM 31/560	MS 31/600-560	HMV 112	231/560 CAK/W33
		710	462	85	110	12	6	Tr 560x6	M 8	-	219	**OH 32/560 H**	HM 31/560	MS 31/600-560	HMV 112	232/560 CAK/W33
		710	462	85	110	12	6	Tr 560x6	M 8	-	219	**OH 32/560 HB**	HM 31/560	MS 31/600-560	HMV 112	232/560 CAK/W33
		710	462	85	110	15	19	Tr 560x6	-	G 1/4	219	**OH 32/560**	HM 31/560	MS 31/600-560	HMV 112	232/560 CAK/W33
		710	462	85	110	15	19	Tr 560x6	-	G 1/4	219	**OH 32/560 B**	HM 31/560	MS 31/600-560	HMV 112	232/560 CAK/W33
		710	462	85	110	-	-	Tr 560x6	-	-	219	**H 32/560**	HM 31/560	MS 31/600-560	HMV 112	232/560 CAK/W33

Adapter sleeves

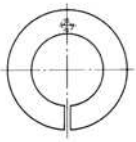
d_1 560 – 600 mm

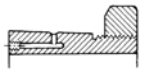


Type H
MS locking device



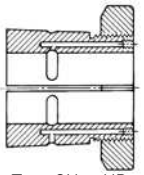
Type OH . . H



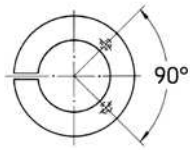


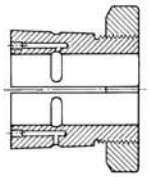
Type OH



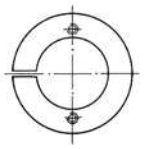


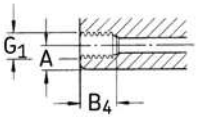
Type OH . . HB
Size 60 and over



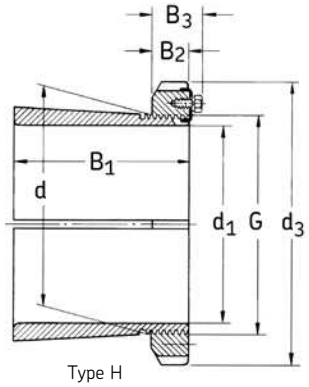


Type OH . . B
Size 60 and over

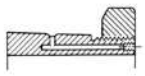




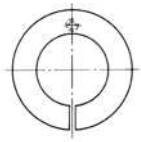
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm										kg	–				
560	600	700	239	75	97	13	8	Tr 600x6	-	G 1/8	127	**OH 39/600 H**	HM 30/600	MS 30/600-530	HMV 120	239/600 CAK/W33
		700	239	75	97	13	8	Tr 600x6	-	G 1/8	127	**OH 39/600 HB**	HM 30/600	MS 30/600-530	HMV 120	239/600 CAK/W33
		700	239	75	97	15	16	Tr 600x6	-	G 1/4	127	**OH 39/600**	HM 30/600	MS 30/600-530	HMV 120	239/600 CAK/W33
		700	239	75	97	15	16	Tr 600x6	-	G 1/4	127	**OH 39/600 B**	HM 30/600	MS 30/600-530	HMV 120	239/600 CAK/W33
		700	239	75	97	-	-	Tr 600x6	-	-	127	**H 39/600**	HM 30/600	MS 30/600-530	HMV 120	239/600 CAK/W33
		700	289	75	97	13	8	Tr 600x6	-	G 1/8	147	**OH 30/600 H**	HM 30/600	MS 30/600-530	HMV 120	230/600 CAK/W33
		700	289	75	97	13	8	Tr 600x6	-	G 1/8	147	**OH 30/600 HB**	HM 30/600	MS 30/600-530	HMV 120	230/600 CAK/W33
		700	289	75	97	15	18	Tr 600x6	-	G 1/4	147	**OH 30/600**	HM 30/600	MS 30/600-530	HMV 120	230/600 CAK/W33
		700	289	75	97	15	18	Tr 600x6	-	G 1/4	147	**OH 30/600 B**	HM 30/600	MS 30/600-530	HMV 120	230/600 CAK/W33
		700	289	75	97	-	-	Tr 600x6	-	-	147	**H 30/600**	HM 30/600	MS 30/600-530	HMV 120	230/600 CAK/W33
		750	399	85	110	13	8	Tr 600x6	-	G 1/8	234	**OH 31/600 H**	HM 31/600	MS 31/600-560	HMV 120	231/600 CAK/W33
		750	399	85	110	13	8	Tr 600x6	-	G 1/8	234	**OH 31/600 HB**	HM 31/600	MS 31/600-560	HMV 120	231/600 CAK/W33
		750	399	85	110	15	22	Tr 600x6	-	G 1/4	234	**OH 31/600**	HM 31/600	MS 31/600-560	HMV 120	231/600 CAK/W33
		750	399	85	110	15	22	Tr 600x6	-	G 1/4	234	**OH 31/600 B**	HM 31/600	MS 31/600-560	HMV 120	231/600 CAK/W33
		750	399	85	110	-	-	Tr 600x6	-	-	234	**H 31/600**	HM 31/600	MS 31/600-560	HMV 120	231/600 CAK/W33
		750	487	85	110	13	8	Tr 600x6	-	G 1/8	278	**OH 32/600 H**	HM 31/600	MS 31/600-560	HMV 120	232/600 CAK/W33
		750	487	85	110	13	8	Tr 600x6	-	G 1/8	278	**OH 32/600 HB**	HM 31/600	MS 31/600-560	HMV 120	232/600 CAK/W33
		750	487	85	110	15	25	Tr 600x6	-	G 1/4	278	**OH 32/600**	HM 31/600	MS 31/600-560	HMV 120	232/600 CAK/W33
		750	487	85	110	15	25	Tr 600x6	-	G 1/4	278	**OH 32/600 B**	HM 31/600	MS 31/600-560	HMV 120	232/600 CAK/W33
		750	487	85	110	-	-	Tr 600x6	-	-	278	**H 32/600**	HM 31/600	MS 31/600-560	HMV 120	232/600 CAK/W33
600	630	730	254	75	97	12	6	Tr 630x6	M 8	-	124	**OH 39/630 H**	HM 30/630	MS 30/630	HMV 126	239/630 CAK/W33
		730	254	75	97	12	6	Tr 630x6	M 8	-	124	**OH 39/630 HB**	HM 30/630	MS 30/630	HMV 126	239/630 CAK/W33
		730	254	75	97	15	12	Tr 630x6	-	G 1/4	124	**OH 39/630**	HM 30/630	MS 30/630	HMV 126	239/630 CAK/W33
		730	254	75	97	15	12	Tr 630x6	-	G 1/4	124	**OH 39/630 B**	HM 30/630	MS 30/630	HMV 126	239/630 CAK/W33
		730	254	75	97	-	-	Tr 630x6	-	-	124	**H 39/630**	HM 30/630	MS 30/630	HMV 126	239/630 CAK/W33
		730	301	75	97	12	6	Tr 630x6	M 8	-	138	**OH 30/630 H**	HM 30/630	MS 30/630	HMV 126	230/630 CAK/W33
		730	301	75	97	12	6	Tr 630x6	M 8	-	138	**OH 30/630 HB**	HM 30/630	MS 30/630	HMV 126	230/630 CAK/W33
		730	301	75	97	15	13	Tr 630x6	-	G 1/4	138	**OH 30/630**	HM 30/630	MS 30/630	HMV 126	230/630 CAK/W33
		730	301	75	97	15	13	Tr 630x6	-	G 1/4	138	**OH 30/630 B**	HM 30/630	MS 30/630	HMV 126	230/630 CAK/W33
		730	301	75	97	-	-	Tr 630x6	-	-	138	**H 30/630**	HM 30/630	MS 30/630	HMV 126	230/630 CAK/W33
		800	424	95	120	12	6	Tr 630x6	M 8	-	254	**OH 31/630 H**	HM 31/630	MS 31/630	HMV 126	231/630 CAK/W33
		800	424	95	120	12	6	Tr 630x6	M 8	-	254	**OH 31/630 HB**	HM 31/630	MS 31/630	HMV 126	231/630 CAK/W33
		800	424	95	120	15	17	Tr 630x6	-	G 1/4	254	**OH 31/630**	HM 31/630	MS 31/630	HMV 126	231/630 CAK/W33
		800	424	95	120	15	17	Tr 630x6	-	G 1/4	254	**OH 31/630 B**	HM 31/630	MS 31/630	HMV 126	231/630 CAK/W33
		800	424	95	120	-	-	Tr 630x6	-	-	254	**H 31/630**	HM 31/630	MS 31/630	HMV 126	231/630 CAK/W33
		800	521	95	120	12	6	Tr 630x6	M 8	-	300	**OH 32/630 H**	HM 31/630	MS 31/630	HMV 126	232/630 CAK/W33
		800	521	95	120	12	6	Tr 630x6	M 8	-	300	**OH 32/630 HB**	HM 31/630	MS 31/630	HMV 126	232/630 CAK/W33
		800	521	95	120	15	21	Tr 630x6	-	G 1/4	300	**OH 32/630**	HM 31/630	MS 31/630	HMV 126	232/630 CAK/W33
		800	521	95	120	15	21	Tr 630x6	-	G 1/4	300	**OH 32/630 B**	HM 31/630	MS 31/630	HMV 126	232/630 CAK/W33
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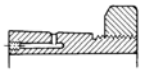


Type H
MS locking device



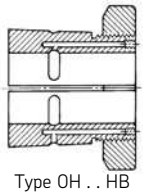
Type OH . . H



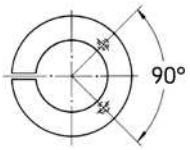


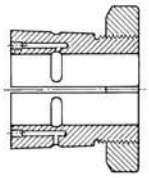
Type OH



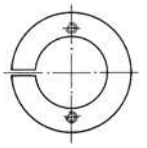


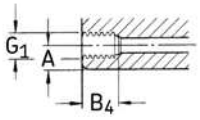
Type OH . . HB
Size 60 and over





Type OH . . B
Size 60 and over

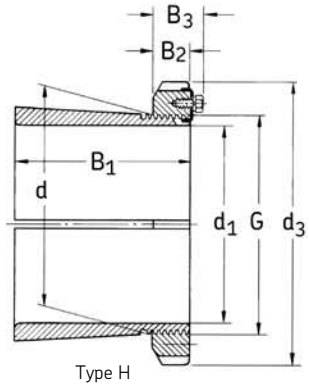




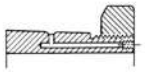
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
630	670	780	264	80	102	13	8	Tr 670x6	G 1/8	162	**OH 39/670 H**	HM 30/670	MS 30/670	HMV 134	239/670 CAK/W33
		780	264	80	102	13	8	Tr 670x6	G 1/8	162	**OH 39/670 HB**	HM 30/670	MS 30/670	HMV 134	239/670 CAK/W33
		780	264	80	102	15	17	Tr 670x6	G 1/4	162	**OH 39/670**	HM 30/670	MS 30/670	HMV 134	239/670 CAK/W33
		780	264	80	102	15	17	Tr 670x6	G 1/4	162	**OH 39/670 B**	HM 30/670	MS 30/670	HMV 134	239/670 CAK/W33
		780	264	80	102	-	-	Tr 670x6	-	162	**H 39/670**	HM 30/670	MS 30/670	HMV 134	239/670 CAK/W33
		780	324	80	102	13	8	Tr 670x6	G 1/8	190	**OH 30/670 H**	HM 30/670	MS 30/670	HMV 134	230/670 CAK/W33
		780	324	80	102	13	8	Tr 670x6	G 1/8	190	**OH 30/670 HB**	HM 30/670	MS 30/670	HMV 134	230/670 CAK/W33
		780	324	80	102	15	19	Tr 670x6	G 1/4	190	**OH 30/670**	HM 30/670	MS 30/670	HMV 134	230/670 CAK/W33
		780	324	80	102	15	19	Tr 670x6	G 1/4	190	**OH 30/670 B**	HM 30/670	MS 30/670	HMV 134	230/670 CAK/W33
		780	324	80	102	-	-	Tr 670x6	-	190	**H 30/670**	HM 30/670	MS 30/670	HMV 134	230/670 CAK/W33
		850	456	106	131	13	8	Tr 670x6	G 1/8	340	**OH 31/670 H**	HM 31/670	MS 31/670	HMV 134	231/670 CAK/W33
		850	456	106	131	13	8	Tr 670x6	G 1/8	340	**OH 31/670 HB**	HM 31/670	MS 31/670	HMV 134	231/670 CAK/W33
		850	456	106	131	15	23	Tr 670x6	G 1/4	340	**OH 31/670**	HM 31/670	MS 31/670	HMV 134	231/670 CAK/W33
		850	456	106	131	15	23	Tr 670x6	G 1/4	340	**OH 31/670 B**	HM 31/670	MS 31/670	HMV 134	231/670 CAK/W33
		850	456	106	131	-	-	Tr 670x6	-	340	**H 31/670**	HM 31/670	MS 31/670	HMV 134	231/670 CAK/W33
		850	558	106	131	13	8	Tr 670x6	G 1/8	401	**OH 32/670 H**	HM 31/670	MS 31/670	HMV 134	232/670 CAK/W33
		850	558	106	131	13	8	Tr 670x6	G 1/8	401	**OH 32/670 HB**	HM 31/670	MS 31/670	HMV 134	232/670 CAK/W33
		850	558	106	131	15	27	Tr 670x6	G 1/4	401	**OH 32/670**	HM 31/670	MS 31/670	HMV 134	232/670 CAK/W33
		850	558	106	131	15	27	Tr 670x6	G 1/4	401	**OH 32/670 B**	HM 31/670	MS 31/670	HMV 134	232/670 CAK/W33
		850	558	106	131	-	-	Tr 670x6	-	401	**H 32/670**	HM 31/670	MS 31/670	HMV 134	232/670 CAK/W33
670	710	830	286	90	112	13	8	Tr 710x7	G 1/8	183	**OH 39/710 H**	HM 30/710	MS 30/710	HMV 142	239/710 CAK/W33
		830	286	90	112	13	8	Tr 710x7	G 1/8	183	**OH 39/710 HB**	HM 30/710	MS 30/710	HMV 142	239/710 CAK/W33
		830	286	90	112	15	18	Tr 710x7	G 1/4	183	**OH 39/710**	HM 30/710	MS 30/710	HMV 142	239/710 CAK/W33
		830	286	90	112	15	18	Tr 710x7	G 1/4	183	**OH 39/710 B**	HM 30/710	MS 30/710	HMV 142	239/710 CAK/W33
		830	286	90	112	-	-	Tr 710x7	-	183	**H 39/710**	HM 30/710	MS 30/710	HMV 142	239/710 CAK/W33
		830	342	90	112	13	8	Tr 710x7	G 1/8	228	**OH 30/710 H**	HM 30/710	MS 30/710	HMV 142	230/710 CAK/W33
		830	342	90	112	13	8	Tr 710x7	G 1/8	228	**OH 30/710 HB**	HM 30/710	MS 30/710	HMV 142	230/710 CAK/W33
		830	342	90	112	15	19	Tr 710x7	G 1/4	228	**OH 30/710**	HM 30/710	MS 30/710	HMV 142	230/710 CAK/W33
		830	342	90	112	15	19	Tr 710x7	G 1/4	228	**OH 30/710 B**	HM 30/710	MS 30/710	HMV 142	230/710 CAK/W33
		830	342	90	112	-	-	Tr 710x7	-	228	**H 30/710**	HM 30/710	MS 30/710	HMV 142	230/710 CAK/W33
		900	467	106	135	13	8	Tr 710x7	G 1/8	392	**OH 31/710 H**	HM 31/710	MS 31/710	HMV 142	231/710 CAK/W33
		900	467	106	135	13	8	Tr 710x7	G 1/8	392	**OH 31/710 HB**	HM 31/710	MS 31/710	HMV 142	231/710 CAK/W33
		900	467	106	135	15	24	Tr 710x7	G 1/4	392	**OH 31/710**	HM 31/710	MS 31/710	HMV 142	231/710 CAK/W33
		900	467	106	135	15	24	Tr 710x7	G 1/4	392	**OH 31/710 B**	HM 31/710	MS 31/710	HMV 142	231/710 CAK/W33
		900	467	106	135	-	-	Tr 710x7	-	392	**H 31/710**	HM 31/710	MS 31/710	HMV 142	231/710 CAK/W33
		900	572	106	135	13	8	Tr 710x7	G 1/8	459	**OH 32/710 H**	HM 31/710	MS 31/710	HMV 142	232/710 CAK/W33
		900	572	106	135	13	8	Tr 710x7	G 1/8	459	**OH 32/710 HB**	HM 31/710	MS 31/710	HMV 142	232/710 CAK/W33
		900	572	106	135	15	28	Tr 710x7	G 1/4	459	**OH 32/710**	HM 31/710	MS 31/710	HMV 142	232/710 CAK/W33
		900	572	106	135	15	28	Tr 710x7	G 1/4	459	**OH 32/710 B**	HM 31/710	MS 31/710	HMV 142	232/710 CAK/W33
		900	572	106	135	-	-	Tr 710x7	-	459	**H 32/710**	HM 31/710	MS 31/710	HMV 142	232/710 CAK/W33

Adapter sleeves

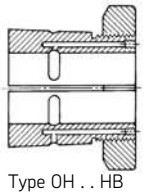
d_1 710 – 750 mm



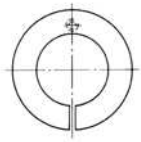
Type H
MS locking device

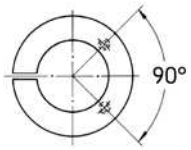


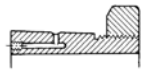
Type OH . . H



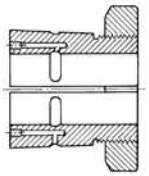
Type OH . . HB
Size 60 and over



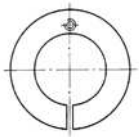


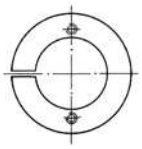


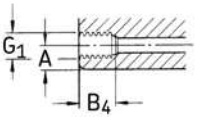
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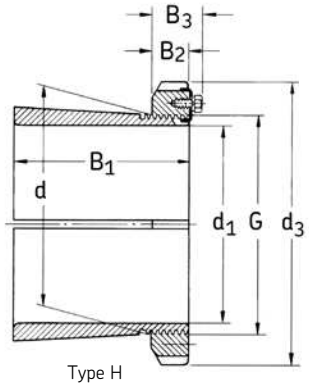
Type OH . . B
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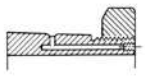




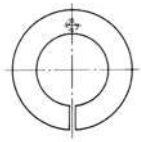
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
710	750	870	291	90	112	13	8	Tr 750x7	G 1/8	211	**OH 39/750 H**	HM 30/750	MS 30/800-750	HMV 150	239/750 CAK/W33
		870	291	90	112	13	8	Tr 750x7	G 1/8	211	**OH 39/750 HB**	HM 30/750	MS 30/800-750	HMV 150	239/750 CAK/W33
		870	291	90	112	15	18	Tr 750x7	G 1/4	211	**OH 39/750**	HM 30/750	MS 30/800-750	HMV 150	239/750 CAK/W33
		870	291	90	112	15	18	Tr 750x7	G 1/4	211	**OH 39/750 B**	HM 30/750	MS 30/800-750	HMV 150	239/750 CAK/W33
		870	291	90	112	-	-	Tr 750x7	-	211	**H 39/750**	HM 30/750	MS 30/800-750	HMV 150	239/750 CAK/W33
		870	356	90	112	13	8	Tr 750x7	G 1/8	246	**OH 30/750 H**	HM 30/750	MS 30/800-750	HMV 150	230/750 CAK/W33
		870	356	90	112	13	8	Tr 750x7	G 1/8	246	**OH 30/750 HB**	HM 30/750	MS 30/800-750	HMV 150	230/750 CAK/W33
		870	356	90	112	15	20	Tr 750x7	G 1/4	246	**OH 30/750**	HM 30/750	MS 30/800-750	HMV 150	230/750 CAK/W33
		870	356	90	112	15	20	Tr 750x7	G 1/4	246	**OH 30/750 B**	HM 30/750	MS 30/800-750	HMV 150	230/750 CAK/W33
		870	356	90	112	-	-	Tr 750x7	-	246	**H 30/750**	HM 30/750	MS 30/800-750	HMV 150	230/750 CAK/W33
		950	493	112	141	13	8	Tr 750x7	G 1/8	451	**OH 31/750 H**	HM 31/750	MS 31/800-750	HMV 150	231/750 CAK/W33
		950	493	112	141	13	8	Tr 750x7	G 1/8	451	**OH 31/750 HB**	HM 31/750	MS 31/800-750	HMV 150	231/750 CAK/W33
		950	493	112	141	15	24	Tr 750x7	G 1/4	451	**OH 31/750**	HM 31/750	MS 31/800-750	HMV 150	231/750 CAK/W33
		950	493	112	141	15	24	Tr 750x7	G 1/4	451	**OH 31/750 B**	HM 31/750	MS 31/800-750	HMV 150	231/750 CAK/W33
		950	493	112	141	-	-	Tr 750x7	-	451	**H 31/750**	HM 31/750	MS 31/800-750	HMV 150	231/750 CAK/W33
		950	603	112	141	13	8	Tr 750x7	G 1/8	526	**OH 32/750 H**	HM 31/750	MS 31/800-750	HMV 150	232/750 CAK/W33
		950	603	112	141	13	8	Tr 750x7	G 1/8	526	**OH 32/750 HB**	HM 31/750	MS 31/800-750	HMV 150	232/750 CAK/W33
		950	603	112	141	15	29	Tr 750x7	G 1/4	526	**OH 32/750**	HM 31/750	MS 31/800-750	HMV 150	232/750 CAK/W33
		950	603	112	141	15	29	Tr 750x7	G 1/4	526	**OH 32/750 B**	HM 31/750	MS 31/800-750	HMV 150	232/750 CAK/W33
		950	603	112	141	-	-	Tr 750x7	-	526	**H 32/750**	HM 31/750	MS 31/800-750	HMV 150	232/750 CAK/W33
750	800	920	303	90	112	13	10	Tr 800x7	G 1/8	259	**OH 39/800 H**	HM 30/800	MS 30/800-750	HMV 160	239/800 CAK/W33
		920	303	90	112	13	10	Tr 800x7	G 1/8	259	**OH 39/800 HB**	HM 30/800	MS 30/800-750	HMV 160	239/800 CAK/W33
		920	303	90	112	15	23	Tr 800x7	G 1/4	259	**OH 39/800**	HM 30/800	MS 30/800-750	HMV 160	239/800 CAK/W33
		920	303	90	112	15	23	Tr 800x7	G 1/4	259	**OH 39/800 B**	HM 30/800	MS 30/800-750	HMV 160	239/800 CAK/W33
		920	303	90	112	-	-	Tr 800x7	-	259	**H 39/800**	HM 30/800	MS 30/800-750	HMV 160	239/800 CAK/W33
		920	366	90	112	13	10	Tr 800x7	G 1/8	302	**OH 30/800 H**	HM 30/800	MS 30/800-750	HMV 160	230/800 CAK/W33
		920	366	90	112	13	10	Tr 800x7	G 1/8	302	**OH 30/800 HB**	HM 30/800	MS 30/800-750	HMV 160	230/800 CAK/W33
		920	366	90	112	15	25	Tr 800x7	G 1/4	302	**OH 30/800**	HM 30/800	MS 30/800-750	HMV 160	230/800 CAK/W33
		920	366	90	112	15	25	Tr 800x7	G 1/4	302	**OH 30/800 B**	HM 30/800	MS 30/800-750	HMV 160	230/800 CAK/W33
		920	366	90	112	-	-	Tr 800x7	-	302	**H30/800**	HM 30/800	MS 30/800-750	HMV 160	230/800 CAK/W33
		1 000	505	112	141	13	10	Tr 800x7	G 1/8	535	**OH 31/800 H**	HM 31/800	MS 31/800-750	HMV 160	231/800 CAK/W33
		1 000	505	112	141	13	10	Tr 800x7	G 1/8	535	**OH 31/800 HB**	HM 31/800	MS 31/800-750	HMV 160	231/800 CAK/W33
		1 000	505	112	141	15	30	Tr 800x7	G 1/4	535	**OH 31/800**	HM 31/800	MS 31/800-750	HMV 160	231/800 CAK/W33
		1 000	505	112	141	15	30	Tr 800x7	G 1/4	535	**OH 31/800 B**	HM 31/800	MS 31/800-750	HMV 160	231/800 CAK/W33
		1 000	505	112	141	-	-	Tr 800x7	-	535	**H 31/800**	HM 31/800	MS 31/800-750	HMV 160	231/800 CAK/W33
		1 000	618	112	141	13	10	Tr 800x7	G 1/8	629	**OH 32/800 H**	HM 31/800	MS 31/800-750	HMV 160	232/800 CAK/W33
		1 000	618	112	141	13	10	Tr 800x7	G 1/8	629	**OH 32/800 HB**	HM 31/800	MS 31/800-750	HMV 160	232/800 CAK/W33
		1 000	618	112	141	15	34	Tr 800x7	G 1/4	629	**OH 32/800**	HM 31/800	MS 31/800-750	HMV 160	232/800 CAK/W33
		1 000	618	112	141	15	34	Tr 800x7	G 1/4	629	**OH 32/800 B**	HM 31/800	MS 31/800-750	HMV 160	232/800 CAK/W33
		1 000	618	112	141	-	-	Tr 800x7	-	629	**H 32/800**	HM 31/800	MS 31/800-750	HMV 160	232/800 CAK/W33

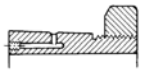


Type H
MS locking device



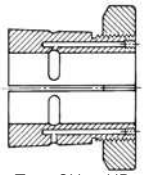
Type OH . . H



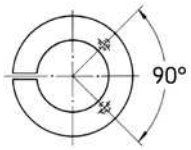


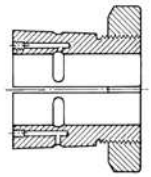
Type OH



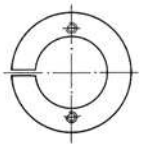


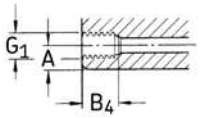
Type OH . . HB
Size 60 and over





Type OH . . B
Size 60 and over

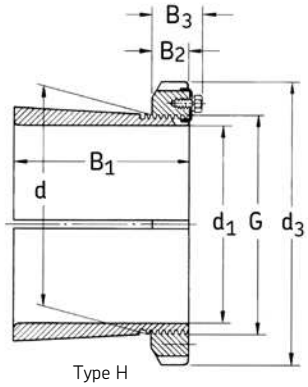




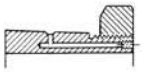
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
800	850	980	308	90	115	13	10	Tr 850x7	G 1/8	288	**OH 39/850 H**	HM 30/850	MS 30/900-850	HMV 170	239/850 CAK/W33
		980	308	90	115	13	10	Tr 850x7	G 1/8	288	**OH 39/850 HB**	HM 30/850	MS 30/900-850	HMV 170	239/850 CAK/W33
		980	308	90	115	15	23	Tr 850x7	G 1/4	288	**OH 39/850**	HM 30/850	MS 30/900-850	HMV 170	239/850 CAK/W33
		980	308	90	115	15	23	Tr 850x7	G 1/4	288	**OH 39/850 B**	HM 30/850	MS 30/900-850	HMV 170	239/850 CAK/W33
		980	308	90	115	-	-	Tr 850x7	-	288	**H 39/850**	HM 30/850	MS 30/900-850	HMV 170	239/850 CAK/W33
		980	380	90	115	13	10	Tr 850x7	G 1/8	341	**OH 30/850 H**	HM 30/850	MS 30/900-850	HMV 170	230/850 CAK/W33
		980	380	90	115	13	10	Tr 850x7	G 1/8	341	**OH 30/850 HB**	HM 30/850	MS 30/900-850	HMV 170	230/850 CAK/W33
		980	380	90	115	15	25	Tr 850x7	G 1/4	341	**OH 30/850**	HM 30/850	MS 30/900-850	HMV 170	230/850 CAK/W33
		980	380	90	115	15	25	Tr 850x7	G 1/4	341	**OH 30/850 B**	HM 30/850	MS 30/900-850	HMV 170	230/850 CAK/W33
		980	380	90	115	-	-	Tr 850x7	-	341	**H 30/850**	HM 30/850	MS 30/900-850	HMV 170	230/850 CAK/W33
		1 060	536	118	147	13	10	Tr 850x7	G 1/8	616	**OH 31/850 H**	HM 31/850	MS 31/850	HMV 170	231/850 CAK/W33
		1 060	536	118	147	13	10	Tr 850x7	G 1/8	616	**OH 31/850 HB**	HM 31/850	MS 31/850	HMV 170	231/850 CAK/W33
		1 060	536	118	147	15	31	Tr 850x7	G 1/4	616	**OH 31/850**	HM 31/850	MS 31/850	HMV 170	231/850 CAK/W33
		1 060	536	118	147	15	31	Tr 850x7	G 1/4	616	**OH 31/850 B**	HM 31/850	MS 31/850	HMV 170	231/850 CAK/W33
		1 060	536	118	147	-	-	Tr 850x7	-	616	**H 31/850**	HM 31/850	MS 31/850	HMV 170	231/850 CAK/W33
		1 060	651	118	147	13	10	Tr 850x7	G 1/8	722	**OH 32/850 H**	HM 31/850	MS 31/850	HMV 170	232/850 CAK/W33
		1 060	651	118	147	13	10	Tr 850x7	G 1/8	722	**OH 32/850 HB**	HM 31/850	MS 31/850	HMV 170	232/850 CAK/W33
		1 060	651	118	147	15	35	Tr 850x7	G 1/4	722	**OH 32/850**	HM 31/850	MS 31/850	HMV 170	232/850 CAK/W33
		1 060	651	118	147	15	35	Tr 850x7	G 1/4	722	**OH 32/850 B**	HM 31/850	MS 31/850	HMV 170	232/850 CAK/W33
		1 060	651	118	147	-	-	Tr 850x7	-	722	**H 32/850**	HM 31/850	MS 31/850	HMV 170	232/850 CAK/W33
850	900	1 030	326	100	125	13	10	Tr 900x7	G 1/8	330	**OH 39/900 H**	HM 30/900	MS 30/900-850	HMV 180	239/900 CAK/W33
		1 030	326	100	125	13	10	Tr 900x7	G 1/8	330	**OH 39/900 HB**	HM 30/900	MS 30/900-850	HMV 180	239/900 CAK/W33
		1 030	326	100	125	15	23	Tr 900x7	G 1/4	330	**OH 39/900**	HM 30/900	MS 30/900-850	HMV 180	239/900 CAK/W33
		1 030	326	100	125	15	23	Tr 900x7	G 1/4	330	**OH 39/900 B**	HM 30/900	MS 30/900-850	HMV 180	239/900 CAK/W33
		1 030	326	100	125	-	-	Tr 900x7	-	330	**H 39/900**	HM 30/900	MS 30/900-850	HMV 180	239/900 CAK/W33
		1 030	400	100	125	13	10	Tr 900x7	G 1/8	387	**OH 30/900 H**	HM 30/900	MS 30/900-850	HMV 180	230/900 CAK/W33
		1 030	400	100	125	13	10	Tr 900x7	G 1/8	387	**OH 30/900 HB**	HM 30/900	MS 30/900-850	HMV 180	230/900 CAK/W33
		1 030	400	100	125	15	25	Tr 900x7	G 1/4	387	**OH 30/900**	HM 30/900	MS 30/900-850	HMV 180	230/900 CAK/W33
		1 030	400	100	125	15	25	Tr 900x7	G 1/4	387	**OH 30/900 B**	HM 30/900	MS 30/900-850	HMV 180	230/900 CAK/W33
		1 030	400	100	125	-	-	Tr 900x7	-	387	**H 30/900**	HM 30/900	MS 30/900-850	HMV 180	230/900 CAK/W33
		1 120	557	125	154	13	10	Tr 900x7	G 1/8	677	**OH 31/900 H**	HM 31/900	MS 31/900	HMV 180	231/900 CAK/W33
		1 120	557	125	154	13	10	Tr 900x7	G 1/8	677	**OH 31/900 HB**	HM 31/900	MS 31/900	HMV 180	231/900 CAK/W33
		1 120	557	125	154	15	31	Tr 900x7	G 1/4	677	**OH 31/900**	HM 31/900	MS 31/900	HMV 180	231/900 CAK/W33
		1 120	557	125	154	15	31	Tr 900x7	G 1/4	677	**OH 31/900 B**	HM 31/900	MS 31/900	HMV 180	231/900 CAK/W33
		1 120	557	125	154	-	-	Tr 900x7	-	677	**H 31/900**	HM 31/900	MS 31/900	HMV 180	231/900 CAK/W33
		1 120	660	125	154	13	10	Tr 900x7	G 1/8	776	**OH 32/900 H**	HM 31/900	MS 31/900	HMV 180	232/900 CAK/W33
		1 120	660	125	154	13	10	Tr 900x7	G 1/8	776	**OH 32/900 HB**	HM 31/900	MS 31/900	HMV 180	232/900 CAK/W33
		1 120	660	125	154	15	35	Tr 900x7	G 1/4	776	**OH 32/900**	HM 31/900	MS 31/900	HMV 180	232/900 CAK/W33
		1 120	660	125	154	15	35	Tr 900x7	G 1/4	776	**OH 32/900 B**	HM 31/900	MS 31/900	HMV 180	232/900 CAK/W33
		1 120	660	125	154	-	-	Tr 900x7	-	776	**H 32/900**	HM 31/900	MS 31/900	HMV 180	232/900 CAK/W33

Adapter sleeves

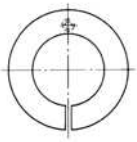
d_1 900 – 950 mm

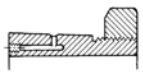


Type H
MS locking device



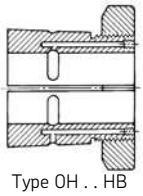
Type OH . . H



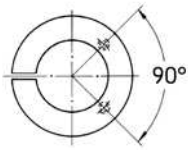


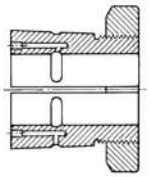
Type OH



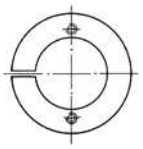


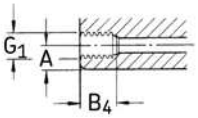
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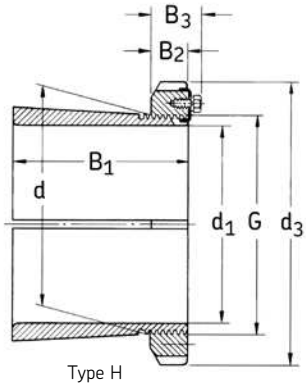


Type OH . . B
Size 60 and over

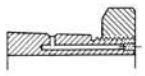




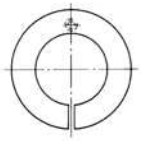
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
900	950	1 080	344	100	125	13	10	Tr 950x8	G 1/8	362	**OH 39/950 H**	HM 30/950	MS 30/950	HMV 190	239/950 CAK/W33
		1 080	344	100	125	13	10	Tr 950x8	G 1/8	362	**OH 39/950 HB**	HM 30/950	MS 30/950	HMV 190	239/950 CAK/W33
		1 080	344	100	125	15	23	Tr 950x8	G 1/4	362	**OH 39/950**	HM 30/950	MS 30/950	HMV 190	239/950 CAK/W33
		1 080	344	100	125	15	23	Tr 950x8	G 1/4	362	**OH 39/950 B**	HM 30/950	MS 30/950	HMV 190	239/950 CAK/W33
		1 080	344	100	125	-	-	Tr 950x8	-	362	**H 39/950**	HM 30/950	MS 30/950	HMV 190	239/950 CAK/W33
		1 080	420	100	125	13	10	Tr 950x8	G 1/8	424	**OH 30/950 H**	HM 30/950	MS 30/950	HMV 190	230/950 CAK/W33
		1 080	420	100	125	13	10	Tr 950x8	G 1/8	424	**OH 30/950 HB**	HM 30/950	MS 30/950	HMV 190	230/950 CAK/W33
		1 080	420	100	125	15	25	Tr 950x8	G 1/4	424	**OH 30/950**	HM 30/950	MS 30/950	HMV 190	230/950 CAK/W33
		1 080	420	100	125	15	25	Tr 950x8	G 1/4	424	**OH 30/950 B**	HM 30/950	MS 30/950	HMV 190	230/950 CAK/W33
		1 080	420	100	125	-	-	Tr 950x8	-	424	**H 30/950**	HM 30/950	MS 30/950	HMV 190	230/950 CAK/W33
		1 170	583	125	154	13	10	Tr 950x8	G 1/8	738	**OH 31/950 H**	HM 31/950	MS 31/950	HMV 190	231/950 CAK/W33
		1 170	583	125	154	13	10	Tr 950x8	G 1/8	738	**OH 31/950 HB**	HM 31/950	MS 31/950	HMV 190	231/950 CAK/W33
		1 170	583	125	154	15	31	Tr 950x8	G 1/4	738	**OH 31/950**	HM 31/950	MS 31/950	HMV 190	231/950 CAK/W33
		1 170	583	125	154	15	31	Tr 950x8	G 1/4	738	**OH 31/950 B**	HM 31/950	MS 31/950	HMV 190	231/950 CAK/W33
		1 170	583	125	154	-	-	Tr 950x8	-	738	**H 31/950**	HM 31/950	MS 31/950	HMV 190	231/950 CAK/W33
		1 170	675	125	154	13	10	Tr 950x8	G 1/8	834	**OH 32/950 H**	HM 31/950	MS 31/950	HMV 190	232/950 CAK/W33
		1 170	675	125	154	13	10	Tr 950x8	G 1/8	834	**OH 32/950 HB**	HM 31/950	MS 31/950	HMV 190	232/950 CAK/W33
		1 170	675	125	154	15	35	Tr 950x8	G 1/4	834	**OH 32/950**	HM 31/950	MS 31/950	HMV 190	232/950 CAK/W33
		1 170	675	125	154	15	35	Tr 950x8	G 1/4	834	**OH 32/950 B**	HM 31/990	MS 31/950	HMV 190	232/950 CAK/W33
		1 170	675	125	154	-	-	Tr 950x8	-	834	**H 32/950**	HM 31/950	MS 31/950	HMV 190	232/950 CAK/W33
950	1 000	1 140	358	100	125	13	10	Tr 1000x8	G 1/8	407	**OH 39/1000 H**	HM 30/1000	MS 30/1000	HMV 200	239/1000 CAK/W33
		1 140	358	100	125	13	10	Tr 1000x8	G 1/8	407	**OH 39/1000 HB**	HM 30/1000	MS 30/1000	HMV 200	239/1000 CAK/W33
		1 140	358	100	125	15	23	Tr 1000x8	G 1/4	407	**OH 39/1000**	HM 30/1000	MS 30/1000	HMV 200	239/1000 CAK/W33
		1 140	358	100	125	15	23	Tr 1000x8	G 1/4	407	**OH 39/1000 B**	HM 30/1000	MS 30/1000	HMV 200	239/1000 CAK/W33
		1 140	358	100	125	-	-	Tr 1000x8	-	407	**H 39/1000**	HM 30/1000	MS 30/1000	HMV 200	239/1000 CAK/W33
		1 140	430	100	125	13	10	Tr 1000x8	G 1/8	470	**OH 30/1000 H**	HM 30/1000	MS 30/1000	HMV 200	230/1000 CAK/W33
		1 140	430	100	125	13	10	Tr 1000x8	G 1/8	470	**OH 30/1000 HB**	HM 30/1000	MS 30/1000	HMV 200	230/1000 CAK/W33
		1 140	430	100	125	15	25	Tr 1000x8	G 1/4	470	**OH 30/1000**	HM 30/1000	MS 30/1000	HMV 200	230/1000 CAK/W33
		1 140	430	100	125	15	25	Tr 1000x8	G 1/4	470	**OH 30/1000 B**	HM 30/1000	MS 30/1000	HMV 200	230/1000 CAK/W33
		1 140	430	100	125	-	-	Tr 1000x8	-	470	**H 30/1000**	HM 30/1000	MS 30/1000	HMV 200	230/1000 CAK/W33
		1 240	609	125	154	13	10	Tr 1000x8	G 1/8	842	**OH 31/1000 H**	HM 31/1000	MS 31/1000	HMV 200	231/1000 CAK/W33
		1 240	609	125	154	13	10	Tr 1000x8	G 1/8	842	**OH 31/1000 HB**	HM 31/1000	MS 31/1000	HMV 200	231/1000 CAK/W33
		1 240	609	125	154	15	31	Tr 1000x8	G 1/4	842	**OH 31/1000**	HM 31/1000	MS 31/1000	HMV 200	231/1000 CAK/W33
		1 240	609	125	154	15	31	Tr 1000x8	G 1/4	842	**OH 31/1000 B**	HM 31/1000	MS 31/1000	HMV 200	231/1000 CAK/W33
		1 240	609	125	154	-	-	Tr 1000x8	-	842	**H 31/1000**	HM 31/1000	MS 31/1000	HMV 200	231/1000 CAK/W33
		1 240	707	125	154	13	10	Tr 1000x8	G 1/8	952	**OH 32/1000 H**	HM 31/1000	MS 31/1000	HMV 200	232/1000 CAK/W33
		1 240	707	125	154	13	10	Tr 1000x8	G 1/8	952	**OH 32/1000 HB**	HM 31/1000	MS 31/1000	HMV 200	232/1000 CAK/W33
		1 240	707	125	154	15	35	Tr 1000x8	G 1/4	952	**OH 32/1000**	HM 31/1000	MS 31/1000	HMV 200	232/1000 CAK/W33
		1 240	707	125	154	15	35	Tr 1000x8	G 1/4	952	**OH 32/1000 B**	HM 31/1000	MS 31/1000	HMV 200	232/1000 CAK/W33
		1 240	707	125	154	-	-	Tr 1000x8	-	952	**H 32/1000**	HM 31/1000	MS 31/1000	HMV 200	232/1000 CAK/W33

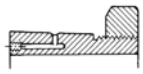


Type H
MS locking device



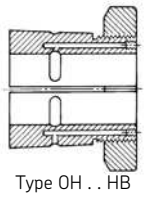
Type OH . . H



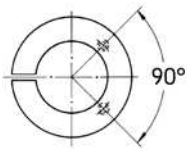


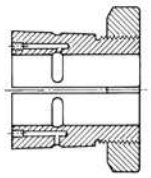
Type OH



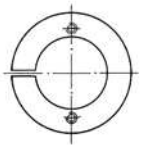


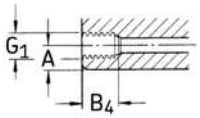
Type OH . . HB
Size 60 and over





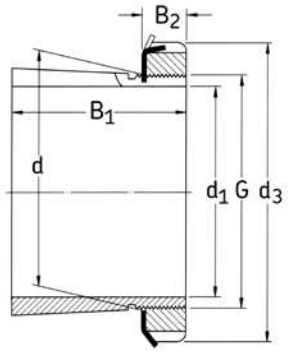
Type OH . . B
Size 60 and over





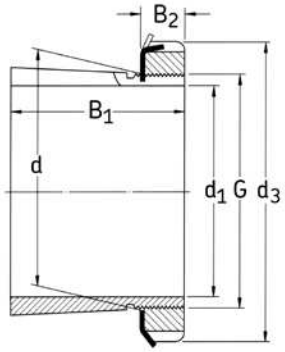
Dimensions										Mass	Designations				
d_1	d	d_3	B_1	B_2	B_3	B_4	A	G	G_1		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
mm									in	kg	–				
1 000	1 060	1 200	372	100	125	15	12	Tr l060x8	G 1/4	490	**OH 39/1060 H**	HM 30/1060	MS 30/1000	HMV 212	239/1060 CAK/W33
		1 200	372	100	125	15	12	Tr l060x8	G 1/4	490	**OH 39/1060 HB**	HM 30/1060	MS 30/1000	HMV 212	239/1060 CAK/W33
		1 200	372	100	125	15	23	Tr l060x8	G 1/4	490	**OH 39/1060**	HM 30/1060	MS 30/1000	HMV 212	239/1060 CAK/W33
		1 200	372	100	125	15	23	Tr l060x8	G 1/4	490	**OH 39/1060 B**	HM 30/1060	MS 30/1000	HMV 212	239/1060 CAK/W33
		1 200	372	100	125	-	-	Tr l060x8	-	490	**H 39/1060**	HM 30/1060	MS 30/1000	HMV 212	239/1060 CAK/W33
		1 200	447	100	125	15	12	Tr l060x8	G 1/4	571	**OH 30/1060 H**	HM 30/1060	MS 30/1000	HMV 212	230/1060 CAK/W33
		1 200	447	100	125	15	12	Tr l060x8	G 1/4	571	**OH 30/1060 HB**	HM 30/1060	MS 30/1000	HMV 212	230/1060 CAK/W33
		1 200	447	100	125	15	25	Tr l060x8	G 1/4	571	**OH 30/1060**	HM 30/1060	MS 30/1000	HMV 212	230/1060 CAK/W33
		1 200	447	100	125	15	25	Tr l060x8	G 1/4	571	**OH 30/1060 B**	HM 30/1060	MS 30/1000	HMV 212	230/1060 CAK/W33
		1 200	447	100	125	-	-	Tr l060x8	-	571	**H 30/1060**	HM 30/1060	MS 30/1000	HMV 212	230/1060 CAK/W33
		1 300	622	125	154	15	12	Tr l060x8	G 1/4	984	**OH 31/1060 H**	HM 31/1060	MS 31/1000	HMV 212	231/1060 CAK/W33
		1 300	622	125	154	15	12	Tr l060x8	G 1/4	984	**OH 31/1060 HB**	HM 31/1060	MS 31/1000	HMV 212	231/1060 CAK/W33
		1 300	622	125	154	15	31	Tr l060x8	G 1/4	984	**OH 31/1060**	HM 31/1060	MS 31/1000	HMV 212	231/1060 CAK/W33
		1 300	622	125	154	15	31	Tr l060x8	G 1/4	984	**OH 31/1060 B**	HM 31/1060	MS 31/1000	HMV 212	231/1060 CAK/W33
		1 300	622	125	154	-	-	Tr l060x8	-	984	**H 31/1060**	HM 31/1060	MS 31/1000	HMV 212	231/1060 CAK/W33

Adapter sleeves
for shafts with inch dimensions
d_1 3/4 – 1 11/16 in



Type HA, HE, HS

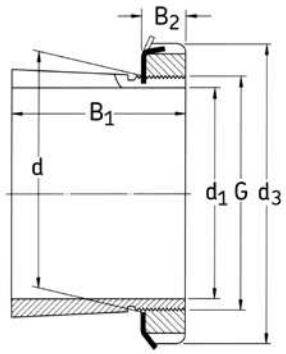
Dimensions						Mass	Designations				
							Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
d_1	d	d_3	B_1	B_2	G						
in						kg	–				
3/4	25	38	26	8	M 25x1.5	0.07	**HE 205**	KM 5	MB 5	-	1205 EK
		38	29	8	M 25x1.5	0.08	**HE 305**	KM 5	MB 5	-	2205 EK, 1305 EK
		38	35	8	M 25x1.5	0.09	**HE 2305**	KM 5	MB 5	-	2305 K
7/8	30	45	27	8	M 30x1.5	0.11	**HS 206**	KM 6	MB 6	-	1206 EK
		45	31	8	M 30x1.5	0.12	**HS 306**	KM 6	MB 6	-	2206 EK, 1306 EK
15/16	30	45	27	8	M 30x1.5	0.1	**HA 206**	KM 6	MB 6	-	1206 EK
		45	31	8	M 30x1.5	0.12	**HA 306**	KM 6	MB 6	-	2206 EK, 1306 EK
		45	38	8	M 30x1.5	0.13	**HA 2306**	KM 6	MB 6	-	2306 K
1	30	45	27	8	M 30x1.5	0.08	**HE 206**	KM 6	MB 6	-	1206 EK
		45	31	8	M 30x1.5	0.1	**HE 306**	KM 6	MB 6	-	2206 EK, 1306 EK
		45	38	8	M 30x1.5	0.11	**HE 2306**	KM 6	MB 6	-	2306 K
1 1/8	35	52	29	9	M 35x1.5	0.14	**HS 207**	KM 7	MB 7	-	1207 EK
		52	35	9	M 35x1.5	0.16	**HS 307**	KM 7	MB 7	-	2207 EK, 1307 EK, 22207 EK
1 3/16	35	52	29	9	M 35x1.5	0.12	**HA 207**	KM 7	MB 7	-	1207 EK
		52	35	9	M 35x1.5	0.14	**HA 307**	KM 7	MB 7	-	2207 EK, 1307 EK, 22207 EK
		52	43	9	M 35x1.5	0.16	**HA 2307**	KM 7	MB 7	-	2307 EK
1 1/4	40	58	31	10	M 40x1.5	0.19	**HE 208**	KM 8	MB 8	-	1208 EK
		58	36	10	M 40x1.5	0.22	**HE 308**	KM 8	MB 8	-	2208 EK, 1308 EK, 22208 EK, 21308 CCK
		58	46	10	M 40x1.5	0.28	**HE 2308**	KM 8	MB 8	-	2308 EK, 22308 EK
1 3/8	40	58	31	10	M 40x1.5	0.16	**HS 208**	KM 8	MB 8	-	1208 EK
		58	36	10	M 40x1.5	0.17	**HS 308**	KM 8	MB 8	-	2208 EK, 1308 EK, 22208 EK, 21308 CCK
1 7/16	45	65	33	11	M 45x1.5	0.26	**HA 209**	KM 9	MB 9	-	1209 EK
		65	39	11	M 45x1.5	0.29	**HA 309**	KM 9	MB 9	-	2209 EK, 1309 EK, 22209 EK, 21309 CCK
		65	50	11	M 45x1.5	0.35	**HA 2309**	KM 9	MB 9	-	2309 EK, 22309 EK
1 1/2	45	65	33	11	M 45x1.5	0.2	**HE 209**	KM 9	MB 9	-	1209 EK
		65	39	11	M 45x1.5	0.24	**HE 309**	KM 9	MB 9	-	2209 EK, 1309 EK, 22209 EK, 21309 CCK
		65	50	11	M 45x1.5	0.31	**HE 2309**	KM 9	MB 9	-	2309 EK, 22309 EK
1 5/8	50	70	35	12	M 50x1.5	0.31	**HS 210**	KM 10	MB 10	HMV 10	1210 EK
		70	42	12	M 50x1.5	0.36	**HS 310**	KM 10	MB 10	HMV 10	2210 EK, 1310 EK, 22210 EK, 21310 CCK
		70	55	12	M 50x1.5	0.4	**HS 2310**	KM 10	MB 10	HMV 10	2310 EK, 22310 EK
1 11/16	50	70	35	12	M 50x1.5	0.28	**HA 210**	KM 10	MB 10	HMV 10	1210 EK
		70	42	12	M 50x1.5	0.32	**HA 310**	KM 10	MB 10	HMV 10	2210 EK, 1310 EK, 22210 EK, 21310 CCK
		70	55	12	M 50x1.5	0.4	**HA 2310**	KM 10	MB 10	HMV 10	2310 EK, 22310 EK



Type HA, HE, HS

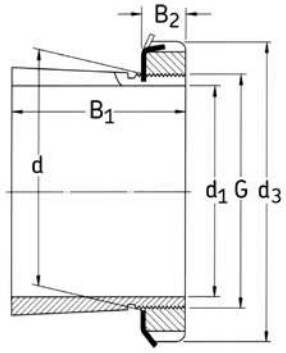
Dimensions						Mass	Designations				
d_1	d	d_3	B_1	B_2	G		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
in						kg	–				
1¾	50	70	35	12	M 50x1.5	0.26	**HE 210**	KM 10	MB 10	HMV 10	1210 EK
		70	42	12	M 50x1.5	0.29	**HE 310**	KM 10	MB 10	HMV 10	2210 EK, 1310 EK, 22210 EK, 21310 CCK
		70	55	12	M 50x1.5	0.36	**HE 2310**	KM 10	MB 10	HMV 10	2310 EK, 22310 EK
1⅞	55	75	37	12.5	M 55x2	0.33	**HS 211**	KM 11	MB 11	HMV 11	1211 EK
		75	45	12.5	M 55x2	0.38	**HS 311**	KM 11	MB 11	HMV 11	2211 EK, 1311 EK, 22211 EK, 21311 CCK
1¹⁵⁄₁₆	55	75	37	12.5	M 55x2	0.3	**HA 211**	KM 11	MB 11	HMV 11	1211 EK
		75	45	12.5	M 55x2	0.34	**HA 311**	KM 11	MB 11	HMV 11	2211 EK, 1311 EK, 22211 EK, 21311 CCK
		75	59	12.5	M 55x2	0.42	**HA 2311**	KM 11	MB 11	HMV 11	2311 K, 22311 EK
2	55	75	37	12.5	W 55x1/19	0.26	**HE 211 B**	HM 11	MB 11	-	1211 EK
		75	45	12.5	W 55x1/19	0.29	**HE 311 B**	HM 11	MB 11	-	2211 EK, 1311 EK, 22211 EK, 21311 CCK
		75	59	12.5	W 55x1/19	0.36	**HE 2311 B**	HM 11	MB 11	-	2311 K, 22311 EK
2⅛	60	80	38	13	M 60x2	0.35	**HS 212**	KM 12	MB 12	HMV 12	1212 EK
		80	47	13	M 60x2	0.4	**HS 312**	KM 12	MB 12	HMV 12	2212 EK, 1312 EK, 22212 EK, 21312 CCK
		80	62	13	M 60x2	0.49	**HS 2312**	KM 12	MB 12	HMV 12	2312 K, 22312 EK
2³⁄₁₆	65	85	40	14	M 65x2	0.49	**HA 213**	KM 13	MB 13	HMV 13	1213 EK
		85	50	14	M 65x2	0.58	**HA 313**	KM 13	MB 13	HMV 13	2213 EK, 1313 EK, 22213 EK, 21313 CCK
		85	65	14	M 65x2	0.75	**HA 2313**	KM 13	MB 13	HMV 13	2313 K, 22313 EK
2¼	65	85	40	14	M 65x2	0.44	**HE 213**	KM 13	MB 13	HMV 13	1213 EK
		85	50	14	M 65x2	0.52	**HE 313**	KM 13	MB 13	HMV 13	2213 EK, 1313 EK, 22213 EK, 21313 CCK
		85	65	14	M 65x2	0.65	**HE 2313**	KM 13	MB 13	HMV 13	2313 K, 22313 EK
2⅜	65	85	40	14	M 65x2	0.44	**HS 213**	KM 13	MB 13	HMV 13	1213 EK
		85	50	14	M 65x2	0.71	**HS 313**	KM 13	MB 13	HMV 13	2213 EK, 1313 EK, 22213 EK, 21313 CCK
		85	65	14	M 65x2	0.80	**HS 2313**	KM 13	MB 13	HMV 13	2313 K, 22313 EK
2⁷⁄₁₆	75	98	43	15	M 75x2	0.75	**HA 215**	KM 15	MB 15	HMV 15	1215 K
		98	55	15	M 75x2	0.91	**HA 315**	KM 15	MB 15	HMV 15	2215 K, 1315 K, 22215 EK, 21315 CCK
		98	73	15	M 75x2	1.15	**HA 2315**	KM 15	MB 15	HMV 15	2315 K, 22315 EK
2½	75	98	43	15	M 75x2	0.7	**HE 215**	KM 15	MB 15	HMV 15	1215 K
		98	55	15	M 75x2	0.85	**HE 315**	KM 15	MB 15	HMV 15	2215 K, 1315 K, 22215 EK, 21315 CCK
		98	73	15	M 75x2	1.09	**HE 2315**	KM 15	MB 15	HMV 15	2315 K, 22315 EK
2⅝	75	98	43	15	M 75x2	0.7	**HS 215**	KM 15	MB 15	HMV 15	1215 K
		98	55	15	M 75x2	0.71	**HS 315**	KM 15	MB 15	HMV 15	2215 K, 1315 K, 22215 EK, 21315 CCK
		98	73	15	M 75x2	0.9	**HS 2315**	KM 15	MB 15	HMV 15	2315 K, 22315 EK
2¹¹⁄₁₆	80	105	46	17	M 80x2	0.87	**HA 216**	KM 16	MB 16	HMV 16	1216 K
		105	59	17	M 80x2	1.05	**HA 316**	KM 16	MB 16	HMV 16	2216 EK, 1316 K, 22216 EK, 21316 CCK
		105	78	17	M 80x2	1.3	**HA 2316**	KM 16	MB 16	HMV 16	2316 K, 22316 EK

Adapter sleeves
for shafts with inch dimensions
d_1 2¾ – 4 in



Type HA, HE

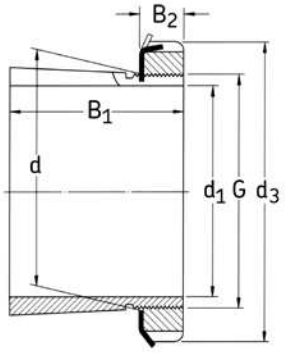
Dimensions						Mass	Designations				
d_1	d	d_3	B_1	B_2	G		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
in						kg	–				
2¾	80	105	46	17	M 80x2	0.81	**HE 216**	KM 16	MB 16	HMV 16	1216 K
		105	59	17	M 80x2	0.97	**HE 316**	KM 16	MB 16	HMV 16	2216 EK, 1316 K, 22216 EK, 21316 CCK
		105	78	17	M 80x2	1.2	**HE 2316**	KM 16	MB 16	HMV 16	2316 K, 22316 EK
2 15/16	85	110	50	18	M 85x2	0.94	**HA 217**	KM 17	MB 17	HMV 17	1217 K
		110	63	18	M 85x2	1.1	**HA 317**	KM 17	MB 17	HMV 17	2217 K, 1317 K, 22217 EK, 21317 CCK
		110	82	18	M 85x2	1.4	**HA 2317**	KM 17	MB 17	HMV 17	2317 K, 22317 EK
3	85	110	50	18	M 85x2	0.87	**HE 217**	KM 17	MB 17	HMV 17	1217 K
		110	63	18	M 85x2	1	**HE 317**	KM 17	MB 17	HMV 17	2217 K, 1317 K, 22217 EK, 21317 CCK
		110	82	18	M 85x2	1.3	**HE 2317**	KM 17	MB 17	HMV 17	2317 K, 22317 EK
3 3/16	90	120	52	18	M 90x2	1.05	**HA 218**	KM 18	MB 18	HMV 18	1218 K
		120	65	18	M 90x2	1.25	**HA 318**	KM 18	MB 18	HMV 18	2218 K, 1318 K, 22218 EK, 21318 CCK
		120	86	18	M 90x2	1.5	**HA 2318**	KM 18	MB 18	HMV 18	2318 K, 23218 CCK/W33, 22318 EK
3¼	90	120	52	18	M 90x2	0.97	**HE 218**	KM 18	MB 18	HMV 18	1218 K
		120	65	18	M 90x2	1.1	**HE 318**	KM 18	MB 18	HMV 18	2218 K, 1318 K, 22218 EK, 21318 CCK
		120	86	18	M 90x2	1.4	**HE 2318**	KM 18	MB 18	HMV 18	2318 K, 23218 CCK/W33, 22318 EK
	95	125	55	19	M 95x2	1.35	**HE 219**	KM 19	MB 19	HMV 19	1219 K
		125	68	19	M 95x2	1.6	**HE 319**	KM 19	MB 19	HMV 19	2219 K, 1319 K, 22219 EK, 21319 CCK
		125	90	19	M 95x2	2	**HE 2319**	KM 19	MB 19	HMV 19	2319 K, 22319 EK
3 7/16	100	130	58	20	M 100x2	1.55	**HA 220**	KM 20	MB 20	HMV 20	1220 K
		130	71	20	M 100x2	1.8	**HA 320**	KM 20	MB 20	HMV 20	2220 K, 1320 K, 22220 EK, 21320 CCK
		130	97	20	M 100x2	2.35	**HA 2320**	KM 20	MB 20	HMV 20	2320 K, 23220 CCK/W33, 22320 EK
3½	100	130	58	20	M 100x2	1.45	**HE 220**	KM 20	MB 20	HMV 20	1220 K
		130	71	20	M 100x2	1.75	**HE 320**	KM 20	MB 20	HMV 20	2220 K, 1320 K, 22220 EK, 21320 CCK
		130	97	20	M 100x2	2.2	**HE 2320**	KM 20	MB 20	HMV 20	2320 K, 23220 CCK/W33, 22320 EK
		130	76	20	M 100x2	1.8	**HE 3120**	KM 20	MB 20	HMV 20	23120 CCK/W33
3 11/16	105	140	60	20	M 105x2	1.7	**HA 221**	KM 21	MB 21	HMV 21	1221 K
		140	74	20	M 105x2	1.95	**HA 321**	KM 21	MB 21	HMV 21	2221 K, 1321 K
3¾	105	140	60	20	M 105x2	1.58	**HE 221**	KM 21	MB 21	HMV 21	1221 K
		140	74	20	M 105x2	1.83	**HE 321**	KM 21	MB 21	HMV 21	2221 K, 1321 K
4	110	145	63	21	M 110x2	1.65	**HE 222**	KM 22	MB 22	HMV 22	1222 K
		145	77	21	M 110x2	1.9	**HE 322**	KM 22	MB 22	HMV 22	2222 K, 1322 K, 23022 CCK, 22222 EK 21322 CCK
		145	105	21	M 110x2	2.4	**HE 2322**	KM 22	MB 22	HMV 22	2322 K, 23222 CCK/W33, 22322 EK
		145	81	21	M 110x2	2.25	**HE 3122**	KM 22	MB 22	HMV 22	23122 CCK/W33



Type HA, HE

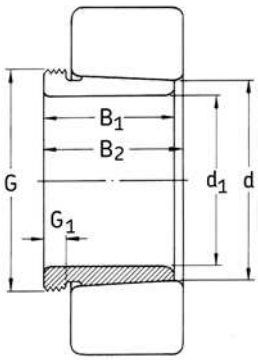
Dimensions						Mass	Designations				
d_1	d	d_3	B_1	B_2	G		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
in						kg	–				
4 3/16	120	145	72	22	M 120x2	2.25	**HA 3024**	KML 24	MBL 24	HMV 24	1224 K, 23024 CCK/W33
		155	88	22	M 120x2	2.9	**HA 3124**	KM 24	MB 24	HMV 24	2224 K, 23124 CCK/W33
		155	112	22	M 120x2	3.6	**HA 2324**	KM 24	MB 24	HMV 24	23224 CCK/W33, 22324 CCK/W33
4 1/4	120	145	72	22	M 120x2	2	**HE 3024**	KML 24	MBL 24	HMV 24	1224 K, 23024 CCK/W33
		155	88	22	M 120x2	2.8	**HE 3124**	KM 24	MB 24	HMV 24	23124 CCK/W33, 22224 EK
		155	112	22	M 120x2	3.35	**HE 2324**	KM 24	MB 24	HMV 24	23224 CCK/W33, 22324 CCK/W33
4 7/16	130	155	80	23	M 130x2	2.85	**HA 3026**	KML 26	MBL 26	HMV 26	23026 CCK/W33
		165	92	23	M 130x2	3.75	**HA 3126**	KM 26	MB 26	HMV 26	23126 CCK/W33, 22226 EK
		165	121	23	M 130x2	4.75	**HA 2326**	KM 26	MB 26	HMV 26	23226 CCK/W33, 22326 CCK/W33
4 1/2	130	155	80	23	M 130x2	2.9	**HE 3026**	KML 26	MBL 26	HMV 26	23026 CCK/W33
		165	92	23	M 130x2	3.6	**HE 3126**	KM 26	MB 26	HMV 26	23126 CCK/W33, 22226 EK
		165	121	23	M 130x2	4.55	**HE 2326**	KM 26	MB 26	HMV 26	23226 CCK/W33, 22326 CCK/W33
4 15/16	140	165	82	24	M 140x2	3	**HA 3028**	KML 28	MBL 28	HMV 28	23028 CCK/W33
		180	97	24	M 140x2	4.1	**HA 3128**	KM 28	MB 28	HMV 28	23128 CCK/W33, 22228 CCK/W33
		180	131	24	M 140x2	5.3	**HA 2328**	KM 28	MB 28	HMV 28	23228 CCK/W33, 22328 CCK/W33
5	140	165	82	24	M 140x2	2.8	**HE 3028**	KML 28	MBL 28	HMV 28	23028 CCK/W33
		180	97	24	M 140x2	3.15	**HE 3128**	KM 28	MB 28	HMV 28	23128 CCK/W33, 22228 CCK/W33
		180	131	24	M 140x2	5	**HE 2328**	KM 28	MB 28	HMV 28	23228 CCK/W33, 22328 CCK/W33
5 3/16	150	180	87	26	M 150x2	4.7	**HA 3030**	KML 30	MBL 30	HMV 30	23030 CCK/W33
		195	111	26	M 150x2	5.8	**HA 3130**	KM 30	MB 30	HMV 30	23130 CCK/W33, 22230 CCK/W33
		195	139	26	M 150x2	7.1	**HA 2330**	KM 30	MB 30	HMV 30	23230 CCK/W33, 22330 CCK/W33
5 1/4	150	180	87	26	M 150x2	4.65	**HE 3030**	KML 30	MBL 30	HMV 30	23030 CCK/W33
		195	111	26	M 150x2	5.5	**HE 3130**	KM 30	MB 30	HMV 30	23130 CCK/W33, 22230 CCK/W33
		195	139	26	M 150x2	6.8	**HE 2330**	KM 30	MB 30	HMV 30	23230 CCK/W33, 22330 CCK/W33
5 7/16	160	190	93	27.5	M 160x3	5.2	**HA 3032**	KML 32	MBL 32	HMV 32	23032 CCK/W33
		210	119	28	M 160x3	7.55	**HA 3132**	KM 32	MB 32	HMV 32	23132 CCK/W33, 22232 CCK/W33
		210	147	28	M 160x3	9.4	**HA 2332**	KM 32	MB 32	HMV 32	23232 CCK/W33, 22332 CCK/W33
5 1/2	160	190	93	27.5	M 160x3	5.1	**HE 3032**	KML 32	MBL 32	HMV 32	23032 CCK/W33
		210	119	28	M 160x3	7.3	**HE 3132**	KM 32	MB 32	HMV 32	23132 CCK/W33, 22232 CCK/W33
		210	147	28	M 160x3	8.8	**HE 2332**	KM 32	MB 32	HMV 32	23232 CCK/W33, 22332 CCK/W33
5 15/16	170	200	101	28.5	M 170x3	5.7	**HA 3034**	KML 34	MBL 34	HMV 34	23034 CCK/W33
		220	122	29	M 170x3	7.8	**HA 3134**	KM 34	MB 34	HMV 34	23134 CCK/W33, 22234 CCK/W33
		220	154	29	M 170x3	9.6	**HA 2334**	KM 34	MB 34	HMV 34	23234 CCK/W33, 22334 CCK/W33
6	170	200	101	28.5	M 170x3	5.4	**HE 3034**	KML 34	MBL 34	HMV 34	23034 CCK/W33
		220	122	29	M 170x3	7.55	**HE 3134**	KM 34	MB 34	HMV 34	23134 CCK/W33, 22234 CCK/W33
		220	154	29	M 170x3	9.2	**HE 2334**	KM 34	MB 34	HMV 34	23234 CCK/W33, 22334 CCK/W33

Adapter sleeves
for shafts with inch dimensions
d_1 6 7/16 – 7 3/16 in



Type HA, HE

Dimensions						Mass	Designations				
d_1	d	d_3	B_1	B_2	G		Adapter sleeve with lock nut and locking device	Lock nut	Locking device	Appropriate hydraulic nut	Bearing(s)
in						kg	–				
6 7/16	180	210	109	29.5	M 180x3	6.85	**HA 3036**	KML 36	MBL 36	HMV 36	23036 CCK/W33
		230	131	30	M 180x3	8.15	**HA 3136**	KM 36	MB 36	HMV 36	23136 CCK/W33, 22236 CCK/W33
		230	161	30	M 180x3	9.9	**HA 2336**	KM 36	MB 36	HMV 36	23236 CCK/W33, 22336 CCK/W33
6 1/2	180	210	109	29.5	M 180x3	5.55	**HE 3036**	KML 36	MBL 36	HMV 36	23036 CCK/W33
		230	131	30	M 180x3	7.8	**HE 3136**	KM 36	MB 36	HMV 36	23136 CCK/W33, 22236 CCK/W33
		230	161	30	M 180x3	9.35	**HE 2336**	KM 36	MB 36	HMV 36	23236 CCK/W33, 22336 CCK/W33
6 3/4	190	220	112	30.5	M 190x3	7.2	**HE 3038**	KML 38	MBL 38	HMV 38	23038 CCK/W33
		240	141	31	M 190x3	10.2	**HE 3138**	KM 38	MB 38	HMV 38	23138 CCK/W33, 22238 CCK/W33
		240	169	31	M 190x3	11.7	**HE 2338**	KM 38	MB 38	HMV 38	23238 CCK/W33, 22338 CCK/W33
6 15/16	190	220	112	30.5	M 190x3	7.2	**HA 3038**	KML 38	MBL 38	HMV 38	23038 CCK/W33
		240	141	31	M 190x3	8.5	**HA 3138**	KM 38	MB 38	HMV 38	23138 CCK/W33, 22238 CCK/W33
		240	169	31	M 190x3	10	**HA 2338**	KM 38	MB 38	HMV 38	23238 CCK/W33, 22338 CCK/W33
7	200	240	120	31.5	M 200x3	9.35	**HE 3040**	KML 40	MBL 40	HMV 40	23040 CCK/W33
		250	150	32	M 200x3	12.3	**HE 3140**	KM 40	MB 40	HMV 40	23140 CCK/W33, 22240 CCK/W33
		250	176	32	M 200x3	14.2	**HE 2340**	KM 40	MB 40	HMV 40	23240 CCK/W33, 22340 CCK/W33
7 3/16	200	240	120	31.5	M 200x3	8.5	**HA 3040**	KML 40	MBL 40	HMV 40	23040 CCK/W33
		250	150	32	M 200x3	10.8	**HA 3140**	KM 40	MB 40	HMV 40	23140 CCK/W33, 22240 CCK/W33
		250	176	32	M 200x3	12.6	**HA 2340**	KM 40	MB 40	HMV 40	23240 CCK/W33, 22340 CCK/W33

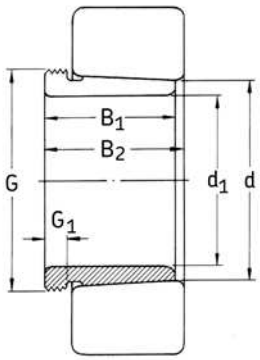


Type AH, AHX

Dimensions						Mass	Designations					
							Withdrawal sleeve	Appropriate nut for dismounting	Hydraulic nut	Lock nut	Locking washer	Bearing(s)
d_1	d	B_1	B_2[1]	G	G_1							
mm						kg	–					
35	40	29	32	M 45x1.5	6	0.09	**AH 308**	KM 9	-	KM 7	MB 7	2208 EK,1308 EK, 22208 EK, 21308 CCK
		40	43	M 45x1.5	7	0.13	**AH 2308**	KM 9	-	KM 7	MB 7	2308 EK, 22308 EK
40	45	31	34	M 50x1.5	6	0.12	**AH 309**	KM 10	HMV 10	KM 8	MB 8	2209 EK, 1309 EK, 22209 EK, 21309 CCK
		44	47	M 50x1.5	7	0.16	**AH 2309**	KM 10	HMV 10	KM 8	MB 8	2309 EK, 22309 EK
45	50	35	38	M 55x2	7	0.13	**AHX 310**	KM 11	HMV 11	KM 9	MB 9	2210 EK, 1310 EK, 22210 EK, 21310 CCK
		50	53	M 55x2	9	0.19	**AHX 2310**	KM 11	HMV 11	KM 9	MB 9	2310 K, 22310 EK
50	55	37	40	M 60x2	7	0.16	**AHX 311**	KM 12	HMV 12	KM 10	MB 10	2211 EK, 1311 EK, 22211 EK, 21311 CCK
		54	57	M 60x2	10	0.26	**AHX 2311**	KM 12	HMV 12	KM 10	MB 10	2311 K, 22311 EK
55	60	40	43	M 65x2	8	0.19	**AHX 312**	KM 13	HMV 13	KM 11	MB 11	2212 EK, 1312 EK, 22212 EK, 21312 CCK
		58	61	M 65x2	11	0.3	**AHX 2312**	KM 13	HMV 13	KM 11	MB 11	2312 K, 22312 EK
60	65	42	45	M 70x2	8	0.23	**AH 313 G**	KM 14	HMV 14	KM 12	MB 12	2213 EK, 1313 EK, 22213 EK, 21313 CCK
		61	64	M 70x2	12	0.36	**AH 2313 G**	KM 14	HMV 14	KM 12	MB 12	2313 K, 22313 EK
65	70	43	47	M 75x2	8	0.25	**AH 314 G**	KM 15	HMV 15	KM 13	MB 13	22214 EK, 21314 CCK
		64	68	M 75x2	12	0.42	**AHX 2314 G**	KM 15	HMV 15	KM 13	MB 13	22314 EK
70	75	45	49	M 80x2	8	0.3	**AH 315 G**	KM 16	HMV 16	KM 14	MB 14	2215 K, 1315 K, 22215 EK, 21315 CCK
		68	72	M 80x2	12	0.48	**AHX 2315 G**	KM 16	HMV 16	KM 14	MB 14	2315 K, 22315 EK
75	80	48	52	M 90x2	8	0.37	**AH 316**	KM 18	HMV 18	KM 15	MB 15	2216 EK, 1316 K, 22216 EK, 21316 CCK
		71	75	M 90x2	12	0.57	**AHX 2316**	KM 18	HMV 18	KM 15	MB 15	2316 K, 22316 EK
80	85	52	56	M 95x2	9	0.43	**AHX 317**	KM 19	HMV 19	KM 16	MB 16	2217 K, 1317 K, 22217 EK, 21317 CCK
		74	78	M 95x2	13	0.65	**AHX 2317**	KM 19	HMV 19	KM 16	MB 16	2317 K, 22317 EK
85	90	53	57	M 100x2	9	0.46	**AHX 318**	KM 20	HMV 20	KM 17	MB 17	2218 K, 1318 K, 22218 EK, 21318 CCK
		79	83	M 100x2	14	0.76	**AHX 2318**	KM 20	HMV 20	KM 17	MB 17	2318 K, 22318 EK
		63	67	M 100x2	10	0.57	**AHX 3218**	KM 20	HMV 20	KM 17	MB 17	23218 CCK/W33
90	95	57	61	M 105x2	10	0.54	**AHX 319**	KM 21	HMV 21	KM 18	MB 18	2219 K, 1319 K, 22219 EK, 21319 CCK
		85	89	M 105x2	16	0.9	**AHX 2319**	KM 21	HMV 21	KM 18	MB 18	2319 K, 22319 EK
95	100	59	63	M 110x2	10	0.58	**AHX 320**	KM 22	HMV 22	KM 19	MB 19	2220 K, 1320 K, 22220 EK, 21320 CCK
		64	68	M 110x2	11	0.66	**AHX 3120**	KM 22	HMV 22	KM 19	MB 19	23120 CCK/W33
		73	77	M 110x2	11	0.76	**AHX 3220**	KM 22	HMV 22	KM 19	MB 19	23220 CCK/W33
		90	94	M 110x2	16	1	**AHX 2320**	KM 22	HMV 22	KM 19	MB 19	2320 K, 22320 EK

[1] Width before the sleeve is pressed into the bearing bore

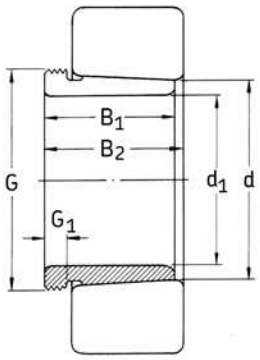
Withdrawal sleeves
d_1 105 – 150 mm



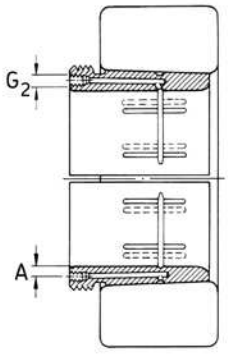
Type AH, AHX

Dimensions						Mass	Designations					
							Withdrawal sleeve	Appropriate nut for dismounting	Hydraulic nut	Lock nut	Locking washer	Bearing(s)
d_1	d	B_1	B_2[1]	G	G_1							
mm						kg	–					
105	110	63	67	M 120x2	12	0.77	**AHX 322**	KM 24	HMV 24	KM 21	MB 21	1322 K, 21322 CCK
		98	102	M 120x2	16	1.28	**AHX 2322 G**	KM 24	HMV 24	KM 21	MB 21	2322 K, 22322 EK
		68	72	M 120x2	11	0.76	**AHX 3122**	KM 24	HMV 24	KM 21	MB 21	2222 K, 23122 CCK/W33, 22222 EK, 21322 CCK
		82	86	M 120x2	11	1	**AHX 3222 G**	KM 24	HMV 24	KM 21	MB 21	23222 CCK/W33
		82	91	M 115x2	13	0.71	**AH 24122**	KM 23	HMV 23	KM 21	MB 21	24122 CCK30/W33
115	120	105	109	M 130x2	17	1.53	**AHX 2324 G**	KM 26	HMV 26	KM 22	MB 22	22324 CCK/W33
		60	64	M 130x2	13	0.73	**AHX 3024**	KM 26	HMV 26	KM 22	MB 22	23024 CCK/W33
		75	79	M 130x2	12	0.94	**AHX 3124**	KM 26	HMV 26	KM 22	MB 22	23124 CCK/W33, 22224 EK
		90	94	M 130x2	13	1 70	**AHX 3224 G**	KM 26	HMV 26	KM 22	MB 22	23224 CCK/W33
		73	82	M 125x2	13	0 70	**AH 24024**	KM 25	HMV 25	KM 22	MB 22	24024 CCK30/W33
		93	102	M 130x2	13	1	**AH 24124**	KM 26	HMV 26	KM 22	MB 22	24124 CCK30/W33
125	130	115	119	M 140x2	19	1.9	**AHX 2326 G**	KM 28	HMV 28	KM 24	MB 24	22326 CCK/W33
		67	71	M 140x2	14	0.91	**AHX 3026**	KM 28	HMV 28	KM 24	MB 24	23026 CCK/W33
		78	82	M 140x2	12	1.1	**AHX 3126**	KM 28	HMV 28	KM 24	MB 24	23126 CCK/W33, 22226 EK
		98	102	M 140x2	15	1.5	**AHX 3226 G**	KM 28	HMV 28	KM 24	MB 24	23226 CCK/W33
		83	93	M 135x2	14	0.88	**AH 24026**	KM 27	HMV 27	KM 24	MB 24	24026 CCK30/W33
		94	104	M 140x2	14	1.15	**AH 24126**	KM 28	HMV 28	KM 24	MB 24	24126 CCK30/W33
135	140	125	130	M 150x2	20	2.25	**AHX 2328 G**	KM 30	HMV 30	KM 26	MB 26	22328 CCK/W33
		68	73	M 150x2	14	1	**AHX 3028**	KM 30	HMV 30	KM 26	MB 26	23028 CCK/W33
		83	88	M 150x2	14	1.3	**AHX 3128**	KM 30	HMV 30	KM 26	MB 26	23128 CCK/W33, 22228 EK
		104	109	M 150x2	15	1.8	**AHX 3228 G**	KM 30	HMV 30	KM 26	MB 26	23228 CCK/W33
		83	93	M 145x2	14	0.95	**AH 24028**	KM 29	HMV 29	KM 26	MB 26	24028 CCK30/W33
		99	109	M 150x2	14	1.3	**AH 24128**	KM 30	HMV 30	KM 26	MB 26	24128 CCK30/W33
145	150	135	140	M 160x3	24	3.7	**AHX 2330 G**	KM 32	HMV 32	KM 28	MB 28	22330 CCK/W33
		72	77	M 160x3	15	1.15	**AHX 3030**	KM 32	HMV 32	KM 28	MB 28	23030 CCK/W33
		96	101	M 160x3	15	1.7	**AHX 3130 G**	KM 32	HMV 32	KM 28	MB 28	23130 CCK/W33, 22230 CCK/W33
		114	119	M 160x3	17	210	**AHX 3230 G**	KM 32	HMV 32	KM 28	MB 28	23230 CCK/W33
		90	101	M 155x3	15	1 05	**AH 24030**	KM 31	HMV 31	KM 28	MB 28	24030 CCK30/W33
		115	126	M 160x3	15	1.55	**AH 24130**	KM 32	HMV 32	KM 28	MB 28	24130 CCK30/W33
150	160	140	146	M 170x3	24	4.3	**AH 2332 G**	KM 34	HMV 34	KM 30	MB 30	22332 CCK/W33
		77	82	M 170x3	16	2.05	**AH 3032**	KM 34	HMV 34	KM 30	MB 30	23032 CCK/W33
		103	108	M 170x3	16	3	**AH 3132 G**	KM 34	HMV 34	KM 30	MB 30	23132 CCK/W33, 22232 CCK/W33
		124	130	M 170x3	20	3.7	**AH 3232 G**	KM 34	HMV 34	KM 30	MB 30	23232 CCK/W33
		95	106	M 170x3	15	2.3	**AH 24032**	KM 34	HMV 34	KM 30	MB 30	24032 CCK30/W33
		124	135	M 170x3	15	3	**AH 24132**	KM 34	HMV 34	KM 30	MB 30	24132 CCK30/W33

[1] Width before the sleeve is pressed into the bearing bore



Type AH

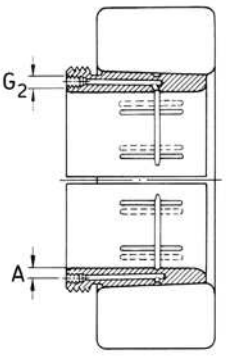


Type AOH

Dimensions								Mass	Designations					
									Withdrawal sleeve	Appropriate nut for dismounting	Hydraulic nut	Lock nut	Locking washer	Bearing(s)
d_1	d	B_1	B_2[1]	G	G_1	G_2	A							
mm						in	mm	kg	–					
160	170	146	152	M 180x3	24	-	-	4.85	**AH 2334 G**	KM 36	HMV 36	KM 32	MB 32	22334 CCK/W33
		85	90	M 180x3	17	-	-	2.45	**AH 3034**	KM 36	HMV 36	KM 32	MB 32	23034 CCK/W33
		104	109	M 180x3	16	-	-	3.2	**AH 3134 G**	KM 36	HMV 36	KM 32	MB 32	23134 CCK/W33, 22234 CCK/W33
		134	140	M 180x3	24	-	-	4.35	**AH 3234 G**	KM 36	HMV 36	KM 32	MB 32	23234 CCK/W33
		106	117	M 180x3	16	-	-	2.7	**AH 24034**	KM 36	HMV 36	KM 32	MB 32	24034 CCK30/W33
		125	136	M 180x3	16	-	-	3.25	**AH 24134**	KM 36	HMV 36	KM 32	MB 32	24134 CCK30/W33
170	180	105	110	M 190x3	17	-	-	3.4	**AH 2236 G**	KM 38	HMV 38	KM 34	MB 34	22236 CCK/W33
		154	160	M 190x3	26	-	-	5.5	**AH 2336 G**	KM 38	HMV 38	KM 34	MB 34	22336 CCK/W33
		92	98	M 190x3	17	-	-	2.8	**AH 3036**	KM 38	HMV 38	KM 34	MB 34	23036 CCK/W33
		116	122	M 190x3	19	-	-	3.9	**AH 3136 G**	KM 38	HMV 38	KM 34	MB 34	23136 CCK/W33
		140	146	M 190x3	24	-	-	485	**AH 3236 G**	KM 38	HMV 38	KM 34	MB 34	23236 CCK/W33
		116	127	M 190x3	16	-	-	320	**AH 24036**	KM 38	HMV 38	KM 34	MB 34	24036 CCK30/W33
		134	145	M 190x3	16	-	-	3.75	**AH 24136**	KM 38	HMV 38	KM 34	MB 34	24136 CCK30/W33
180	190	112	117	M 200x3	18	-	-	3.9	**AH 2238 G**	KM 40	HMV 40	KM 36	MB 36	22238 CCK/W33
		160	167	M 200x3	26	-	-	6.1	**AH 2338 G**	KM 40	HMV 40	KM 36	MB 36	22338 CCK/W33
		96	102	M 200x3	18	-	-	3.3	**AH 3038 G**	KM 40	HMV 40	KM 36	MB 36	23038 CCK/W33
		125	131	M 200x3	20	-	-	4.5	**AH 3138 G**	KM 40	HMV 40	KM 36	MB 36	23138 CCK/W33
		145	152	M 200x3	25	-	-	5.4	**AH 3238 G**	KM 40	HMV 40	KM 36	MB 36	23238 CCK/W33
		118	131	M 200x3	18	-	-	3.55	**AH 24038**	KM 40	HMV 40	KM 36	MB 36	24038 CCK30/W33
		146	159	M 200x3	18	-	-	4.45	**AH 24138**	KM 40	HMV 40	KM 36	MB 36	24138 CCK30/W33
190	200	118	123	Tr 220x4	19	-	-	4.7	**AH 2240**	HM 44 T	HMV 44	KM 38	MB 38	22240 CCK/W33
		170	177	Tr 220x4	30	-	-	7.6	**AH 2340**	HM 44 T	HMV 44	KM 38	MB 38	22340 CCK/W33
		102	108	Tr 210x4	19	-	-	3.7	**AH 3040 G**	HM 42 T	HMV 42	KM 38	MB 38	23040 CCK/W33
		134	140	Tr 220x4	21	-	-	5.65	**AH 3140**	HM 44 T	HMV 44	KM 38	MB 38	23140 CCK/W33
		153	160	Tr 220x4	25	-	-	6.6	**AH 3240**	HM 44 T	HMV 44	KM 38	MB 38	23240 CCK/W33
		127	140	Tr 210x4	18	-	-	4	**AH 24040**	HM 42 T	HMV 42	KM 38	MB 38	24040 CCK/W33
		158	171	Tr 210x4	18	-	-	5.05	**AH 24140**	HM 42 T	HMV 42	KM 38	MB 38	24140 CCK30/W33
200	220	181	189	Tr 240x4	30	G 1/4	9	13.5	**AOH 2344**	HM 48 T	HMV 48	KM 40	MB 40	23244 CCK/W33, 22344 CCK/W33
		111	117	Tr 230x4	20	G 1/8	6.5	7.3	**AOH 3044 G**	HM 46 T	HMV 46	KM 40	MB 40	23044 CCK/W33
		145	151	Tr 240x4	23	G 1/4	9	9.3	**AOH 3144**	HM 48 T	HMV 48	KM 40	MB 40	23144 CCK/W33
		130	136	Tr 240x4	20	G 1/4	9	9.4	**AOH 2244**	HM 48 T	HMV 48	KM 40	MB 40	22244 CCK/W33
		138	152	Tr 230x4	20	G 1/8	6.5	8.2	**AOH 24044**	HM 46 T	HMV 46	KM 40	MB 40	24044 CCK30/W33
		170	184	Tr 230x4	20	G 1/8	6.5	10	**AOH 24144**	HM 46 T	HMV 46	KM 40	MB 40	24144 CCK30/W33

[1] Width before the sleeve is pressed into the bearing bore

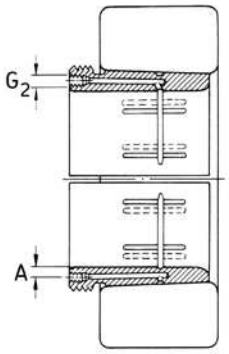
Withdrawal sleeves
d_1 220 – 320 mm



Type AOH

Dimensions								Mass	Designations					
									Withdrawal sleeve	Appropriate nut for dismounting	Hydraulic nut	Lock nut	Locking washer	Bearing(s)
d_1	d	B_1	B_2[1]	G	G_1	G_2	A							
mm						in	mm	kg	–					
220	240	189	197	Tr 260x4	30	G 1/4	9	14	**AOH 2348**	HM 52 T	HMV 52	HM 44 T	MB 44	23248 CCK/W33, 22348 CCK/W33
		116	123	Tr 260x4	21	G 1/4	9	7.95	**AOH 3048**	HM 52 T	HMV 52	HM 44 T	MB 44	23048 CCK/W33
		154	161	Tr 260x4	25	G 1/4	9	12	**AOH 3148**	HM 52 T	HMV 52	HM 44 T	MB 44	23148 CCK/W33
		144	150	Tr 260x4	21	G 1/4	9	11.5	**AOH 2248**	HM 52 T	HMV 52	HM 44 T	MB 44	22248 CCK/W33
		138	153	Tr 250x4	20	G 1/8	6.5	8.05	**AOH 24048**	HM 50 T	HMV 50	HM 44 T	MB 44	24048 CCK30/W33
		180	195	Tr 260x4	20	G 1/4	9	11.5	**AOH 24148**	HM 52 T	HMV 52	HM 44 T	MB 44	24148 CCK30/W33
240	260	155	161	Tr 280x4	23	G 1/4	9	13.5	**AOH 2252 G**	HM 56 T	HMV 56	HM 48 T	MB 48	22252 CACK/W33
		205	213	Tr 280x4	30	G 1/4	9	19	**AOH 2352 G**	HM 56 T	HMV 56	HM 48 T	MB 48	23252 CACK/W33, 22352 CCK/W33
		128	135	Tr 280x4	23	G 1/4	9	9.6	**AOH 3052**	HM 56 T	HMV 56	HM 48 T	MB 48	23052 CCK/W33
		172	179	Tr 280x4	26	G 1/4	9	15.5	**AOH 3152 G**	HM 56 T	HMV 56	HM 48 T	MB 48	23152 CCK/W33
		162	178	Tr 280x4	22	G 1/8	6.5	12.5	**AOH 24052 G**	HM 56 T	HMV 56	HM 48 T	MB 48	24052 CCK30/W33
		202	218	Tr 280x4	22	G 1/4	9	14	**AOH 24152**	HM 56 T	HMV 56	HM 48 T	MB 48	24152 CCK30/W33
260	280	155	163	Tr 300x4	24	G 1/4	9	14.8	**AOH 2256 G**	HM 3160	HMV 60	HM 52 T	MB 52	22256 CACK/W33
		212	220	Tr 300x4	30	G 1/4	9	21.5	**AOH 2356 G**	HM 3160	HMV 60	HM 52 T	MB 52	23256 CACK/W33, 22356 CCK/W33
		131	139	Tr 300x4	24	G 1/4	9	11	**AOH 3056**	HM 3060	HMV 60	HM 52 T	MB 52	23056 CCK/W33
		175	183	Tr 300x4	28	G 1/4	9	17	**AOH 3156 G**	HM 3160	HMV 60	HM 52 T	MB 52	23156 CCK/W33
		162	179	Tr 300x4	22	G 1/8	6.5	13.5	**AOH 24056 G**	HM 3160	HMV 60	HM 52 T	MB 52	24056 CCK30/W33
		202	219	Tr 300x4	22	G 1/4	9	15	**AOH 24156**	HM 3160	HMV 60	HM 52 T	MB 52	24156 CCK30/W33
280	300	170	178	Tr 320x5	26	G 1/4	9	17.5	**AOH 2260 G**	HM 3164	HMV 64	HM 56 T	MB 56	22260 CACK/W33
		145	153	Tr 320x5	26	G 1/4	9	13	**AOH 3060**	HM 3064	HMV 64	HM 56 T	MB 56	23060 CCK/W33
		192	200	Tr 320x5	30	G 1/4	9	20.5	**AOH 3160 G**	HM 3164	HMV 64	HM 56 T	MB 56	23160 CCK/W33
		228	236	Tr 320x5	34	G 1/4	9	23.5	**AOH 3260 G**	HM 3164	HMV 64	HM 56 T	MB 56	23260 CACK/W33
		184	202	Tr 320x5	24	G 1/8	6.5	17	**AOH 24060 G**	HM 3164	HMV 64	HM 56 T	MB 56	24060 CCK30/W33
		224	242	Tr 320x5	24	G 1/4	9	18.5	**AOH 24160**	HM 3164	HMV 64	HM 56 T	MB 56	24160 CCK30/W33
300	320	180	190	Tr 340x5	27	G 1/4	9	20	**AOH 2264 G**	HM 3168	HMV 68	HM 3060	MS 3060	22264 CACK/W33
		149	157	Tr 340x5	27	G 1/4	9	16.5	**AOH 3064 G**	HM 3068	HMV 68	HM 3060	MS 3060	23064 CCK/W33
		209	217	Tr 340x5	31	G 1/4	9	24.5	**AOH 3164 G**	HM 3168	HMV 68	HM 3060	MS 3060	23164 CCK/W33
		246	254	Tr 340x5	36	G 1/4	9	27.5	**AOH 3264 G**	HM 3168	HMV 68	HM 3060	MS 3060	23264 CACK/W33
		184	202	Tr 340x5	24	G 1/8	6.5	18	**AOH 24064 G**	HM 3168	HMV 68	HM 3060	MS 3060	24064 CCK30/W33
		242	260	Tr 340x5	24	G 1/4	9	20.5	**AOH 24164**	HM 3168	HMV 68	HM 3060	MS 3060	24164 CCK30/W33
320	340	162	171	Tr 360x5	28	G 1/4	9	19	**AOH 3068 G**	HM 3072	HMV 72	HM 3064	MS 3068-64	23068 CCK/W33
		225	234	Tr 360x5	33	G 1/4	9	28	**AOH 3168 G**	HM 3172	HMV 72	HM 3064	MS 3068-64	23168 CCK/W33
		264	273	Tr 360x5	38	G 1/4	9	32	**AOH 3268 G**	HM 3172	HMV 72	HM 3064	MS 3068-64	23268 CAK/W33
		206	225	Tr 360x5	26	G 1/4	9	18	**AOH 24068**	HM 3172	HMV 72	HM 3064	MS 3068-64	24068 CCK30/W33
		269	288	Tr 360x5	26	G 1/4	9	25.5	**AOH 24168**	HM 3172	HMV 72	HM 3064	MS 3068-64	24168 ECAK30/W33

[1] Width before the sleeve is pressed into the bearing bore

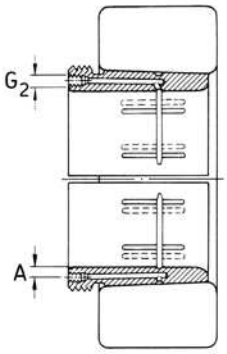


Type AOH, AOHX

Dimensions								Mass	Designations						
									Withdrawal sleeve	Appropriate nut for dismounting	Hydraulic nut	Lock nut	Locking washer	Bearing(s)
d_1	d	B_1	B_2[1]	G	G_1	G_2	A							
mm						in	mm	kg	–					
340	360	167	176	Tr 380x5	30	G 1/4	9	21	**AOH 3072 G**	HM 3076	HMV 76	HM 3068	MS 3068-64	23072 CCK/W33
		229	238	Tr 380x5	35	G 1/4	9	30.5	**AOH 3172 G**	HM 3176	HMV 76	HM 3068	MS 3068-64	23172 CACK/W33
		274	283	Tr 380x5	40	G 1/4	9	35.5	**AOH 3272 G**	HM 3176	HMV 76	HM 3068	MS 3068-64	23272 CAK/W33
		206	226	Tr 380x5	26	G 1/4	9	20	**AOH 24072**	HM 3176	HMV 76	HM 3068	MS 3068-64	24072 CCK30/W33
		269	289	Tr 380x5	26	G 1/4	9	26	**AOH 24172**	HM 3176	HMV 76	HM 3068	MS 3068-64	24172 CCK30/W33
360	380	170	180	Tr 400x5	31	G 1/4	9	23	**AOH 3076 G**	HM 3080	HMV 80	HM 3072	MS 3072	23076 CCK/W33
		232	242	Tr 400x5	36	G 1/4	9	33	**AOH 3176 G**	HM 3180	HMV 80	HM 3072	MS 3072	23176 CAK/W33
		284	294	Tr 400x5	42	G 1/4	9	42	**AOH 3276 G**	HM 3180	HMV 80	HM 3072	MS 3072	23276 CAK/W33
		208	228	Tr 400x5	28	G 1/4	9	23.5	**AOH 24076**	HM 3180	HMV 80	HM 3072	MS 3072	24076 CCK30/W33
		271	291	Tr 400x5	28	G 1/4	9	31	**AOH 24176**	HM 3180	HMV 80	HM 3072	MS 3072	24176 CAK30/W33
380	400	183	193	Tr 420x5	33	G 1/4	9	26	**AOH 3080 G**	HM 3084	HMV 84	HM 3076	MS 3080-76	23080 CACK/W33
		240	250	Tr 420x5	38	G 1/4	9	36	**AOH 3180 G**	HM 3184	HMV 84	HM 3076	MS 3080-76	23180 CAK/W33
		302	312	Tr 420x5	44	G 1/4	9	48	**AOH 3280 G**	HM 3184	HMV 84	HM 3076	MS 3080-76	23280 CAK/W33
		228	248	Tr 420x5	28	G 1/4	9	27	**AOH 24080**	HM 3184	HMV 84	HM 3076	MS 3080-76	24080 CACK30/W33
		278	298	Tr 420x5	28	G 1/4	9	35	**AOH 24180**	HM 3184	HMV 84	HM 3076	MS 3080-76	24180 CCK30/W33
400	420	186	196	Tr 440x5	34	G 1/4	9	28	**AOH 3084 G**	HM 3088	HMV 88	HM 3080	MS 3080-76	23084 CAK/W33
		266	276	Tr 440x5	40	G 1/4	9	43	**AOH 3184 G**	HM 3188	HMV 88	HM 3080	MS 3080-76	23184 CK/W33
		321	331	Tr 440x5	46	G 1/4	9	54.5	**AOH 3284 G**	HM 3188	HMV 88	HM 3080	MS 3080-76	23284 CAK/W33
		230	252	Tr 440x5	30	G 1/4	9	29	**AOH 24084**	HM 3188	HMV 88	HM 3080	MS 3080-76	24084 CAK30/W33
		310	332	Tr 440x5	30	G 1/4	9	39	**AOH 24184**	HM 3188	HMV 88	HM 3080	MS 3080-76	24184 CAK30/W33
420	440	194	205	Tr 460x5	35	G 1/4	9	30.8	**AOHX 3088 G**	HM 3092	HMV 92	HM 3084	MS 3084	23088 CAK/W33
		270	281	Tr 460x5	42	G 1/4	9	46	**AOHX 3188 G**	HM 3192	HMV 92	HM 3084	MS 3084	23188 CAK/W33
		330	341	Tr 460x5	48	G 1/4	9	59	**AOHX 3288 G**	HM 3192	HMV 92	HM 3084	MS 3084	23288 CAK/W33
		242	264	Tr 460x5	30	G 1/4	9	32	**AOH 24088**	HM 3192	HMV 92	HM 3084	MS 3084	24088 CAK30/W33
		310	332	Tr 460x5	30	G 1/4	9	45.5	**AOH 24188**	HM 3192	HMV 92	HM 3084	MS 3084	24188 CAK30/W33
440	460	202	213	Tr 480x5	37	G 1/4	9	33.8	**AOHX 3092 G**	HM 3096	HMV 96	HM 3088	MS 3092-88	23092 CAK/W33
		285	296	Tr 480x5	43	G 1/4	9	51.5	**AOHX 3192 G**	HM 3196	HMV 96	HM 3088	MS 3092-88	23192 CAK/W33
		349	360	Tr 480x5	50	G 1/4	9	66.5	**AOHX 3292 G**	HM 3196	HMV 96	HM 3088	MS 3092-88	23292 CAK/W33
		250	273	Tr 480x5	32	G 1/4	9	34.7	**AOH 24092**	HM 3196	HMV 96	HM 3088	MS 3092-88	24092 CAK30/W33
		332	355	Tr 480x5	32	G 1/4	9	50	**AOH 24192**	HM 3196	HMV 96	HM 3088	MS 3092-88	24192 ECAK30/W33
460	480	205	217	Tr 500x5	38	G 1/4	9	36	**AOHX 3096 G**	HM 30/500	HMV 100	HM 3092	MS 3092-88	23096 CAK/W33
		295	307	Tr 500x5	45	G 1/4	9	56	**AOHX 3196 G**	HM 31/500	HMV 100	HM 3092	MS 3092-88	23196 CAK/W33
		364	376	Tr 500x5	52	G 1/4	9	73.5	**AOHX 3296 G**	HM 31/500	HMV 100	HM 3092	MS 3092-88	23296 CAK/W33
		250	273	Tr 500x5	32	G 1/4	9	36.6	**AOH 24096**	HM 31/500	HMV 100	HM 3092	MS 3092-88	24096 CACK30/W33
		340	363	Tr 500x5	32	G 1/4	9	51.5	**AOH 24196**	HM 31/500	HMV 100	HM 3092	MS 3092-88	24196 CAK30/W33

[1] Width before the sleeve is pressed into the bearing bore

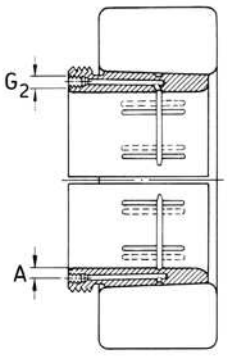
Withdrawal sleeves
d_1 480 – 670 mm



Type AOH, AOHX

Dimensions								Mass	Designations						
d_1	d	B_1	B_2[1]	G	G_1	G_2	A		Withdrawal sleeve	Appropriate nut for dismounting	Hydraulic nut	Lock nut	Locking washer	Bearing(s)
mm						in	mm	kg	–					
480	500	209	221	Tr 530x6	40	G 1/4	9	41	**AOHX 30/500 G**	HM 30/530	HMV 106	HM 3096	MS 30/500-96	230/500 CAK/W33
		313	325	Tr 530x6	47	G 1/4	9	66.5	**AOHX 31/500 G**	HM 31/530	HMV 106	HM 3096	MS 30/500-96	231/500 CAK/W33
		393	405	Tr 530x6	54	G 1/4	9	89.5	**AOHX 32/500 G**	HM 31/530	HMV 106	HM 3096	MS 30/500-96	232/500 CAK/W33
		253	276	Tr 530x6	35	G 1/4	9	41.7	**AOH 240/500**	HM 31/530	HMV 106	HM 3096	MS 30/500-96	240/500 CAK30/W33
		360	383	Tr 530x6	35	G 1/4	9	57	**AOH 241/500**	HM 31/530	HMV 106	HM 3096	MS 30/500-96	241/500 ECAK30/W33
500	530	230	242	Tr 560x6	45	G 1/4	10	63.5	**AOH 30/530**	HM 30/560	HMV 112	HM 30/500	MS 30/500-96	230/530 CAK/W33
		325	337	Tr 560x6	53	G 1/4	10	94.5	**AOH 31/530**	HM 31/560	HMV 112	HM 30/500	MS 30/500-96	231/530 CAK/W33
		412	424	Tr 560x6	57	G 1/4	10	127	**AOH 32/530 G**	HM 31/560	HMV 112	HM 30/500	MS 30/500-96	232/530 CAK/W33
		285	309	Tr 560x6	35	G 1/4	9	69.5	**AOH 240/530 G**	HM 31/560	HMV 112	HM 30/500	MS 30/500-96	240/530 CAK30/W33
		370	394	Tr 560x6	35	G 1/4	9	91.5	**AOH 241/530 G**	HM 31/560	HMV 112	HM 30/500	MS 30/500-96	241/530 CAK30/W33
530	560	240	252	Tr 600x6	45	G 1/4	11	73.5	**AOHX 30/560**	HM 30/600	HMV 120	HM 30/530	MS 30/600-530	230/560 CAK/W33
		335	347	Tr 600x6	55	G 1/4	11	108	**AOH 31/560**	HM 31/600	HMV 120	HM 30/530	MS 30/600-530	231/560 CAK/W33
		422	434	Tr 600x6	57	G 1/4	11	143	**AOHX 32/560**	HM 31/600	HMV 120	HM 30/530	MS 30/600-530	232/560 CAK/W33
		296	320	Tr 600x6	38	G 1/4	9	79.5	**AOH 240/560 G**	HM 31/600	HMV 120	HM 30/530	MS 30/600-530	240/560 CAK30/W33
		393	417	Tr 600x6	38	G 1/4	9	107	**AOH 241/560 G**	HM 31/600	HMV 120	HM 30/530	MS 30/600-530	241/560 CAK30/W33
570	600	245	259	Tr 630x6	45	G 1/4	11	77	**AOHX 30/600**	HM 30/630	HMV 126	HM 30/560	MS 30/560	230/600 CAK/W33
		355	369	Tr 630x6	55	G 1/4	11	120	**AOHX 31/600**	HM 31/630	HMV 126	HM 30/560	MS 30/560	231/600 CAK/W33
		445	459	Tr 630x6	57	G 1/4	11	159	**AOHX 32/600 G**	HM 31/630	HMV 126	HM 30/560	MS 30/560	232/600 CAK/W33
		310	336	Tr 630x6	38	G 1/4	9	86.5	**AOHX 240/600**	HM 31/630	HMV 126	HM 30/560	MS 30/560	240/600 CAK30/W33
		413	439	Tr 630x6	38	G 1/4	9	118	**AOHX 241/600**	HM 31/630	HMV 126	HM 30/560	MS 30/560	241/600 CAK30/W33
600	630	258	272	Tr 670x6	46	G 1/4	11	89.5	**AOH 30/630**	HM 30/670	HMV 134	HM 30/600	MS 30/600-530	230/630 CAK/W33
		375	389	Tr 670x6	60	G 1/4	11	140	**AOH 31/630**	HM 31/670	HMV 134	HM 30/600	MS 30/600-530	231/630 CAK/W33
		475	489	Tr 670x6	63	G 1/4	11	188	**AOH 32/630 G**	HM 31/670	HMV 134	HM 30/600	MS 30/600-530	232/630 CAK/W33
		330	356	Tr 670x6	40	G 1/4	9	101	**AOH 240/630 G**	HM 31/670	HMV 134	HM 30/600	MS 30/600-530	240/630 CAK30/W33
		440	466	Tr 670x6	40	G 1/4	9	136	**AOH 241/630 G**	HM 31/670	HMV 134	HM 30/600	MS 30/600-530	241/630 CAK30/W33
630	670	280	294	Tr 710x7	50	G 1/4	12	127	**AOH 30/670**	HM 30/710	HMV 142	HM 30/630	MS 30/630	230/670 CAK/W33
		395	409	Tr 710x7	59	G 1/4	12	189	**AOHX 31/670**	HM 31/710	HMV 142	HM 30/630	MS 30/630	231/670 CAK/W33
		500	514	Tr 710x7	62	G 1/4	12	252	**AOH 32/670 G**	HM 31/710	HMV 142	HM 30/630	MS 30/630	232/670 CAK/W33
		348	374	Tr 710x7	40	G 1/4	12	140	**AOH 240/670 G**	HM 31/710	HMV 142	HM 30/630	MS 30/630	240/670 CAK30/W33
		452	478	Tr 710x7	40	G 1/4	12	185	**AOH 241/670**	HM 31/710	HMV 142	HM 30/630	MS 30/630	241/670 CAK30/W33
670	710	286	302	Tr 750x7	50	G 1/4	15	138	**AOHX 30/710**	HM 30/750	HMV 150	HM 30/670	MS 30/670	230/710 CAK/W33
		405	421	Tr 750x7	60	G 1/4	15	207	**AOHX 31/710**	HM 31/750	HMV 150	HM 30/670	MS 30/670	231/710 CAK/W33
		515	531	Tr 750x7	65	G 1/4	15	278	**AOH 32/710 G**	HM 31/750	HMV 150	HM 30/670	MS 30/670	232/710 CAK/W33
		360	386	Tr 750x7	45	G 1/4	12	155	**AOH 240/710 G**	HM 31/750	HMV 150	HM 30/670	MS 30/670	240/710 CAK30/W33
		483	509	Tr 750x7	45	G 1/4	12	212	**AOH 241/710**	HM 31/750	HMV 150	HM 30/670	MS 30/670	241/710 CAK30/W33

[1] Width before the sleeve is pressed into the bearing bore

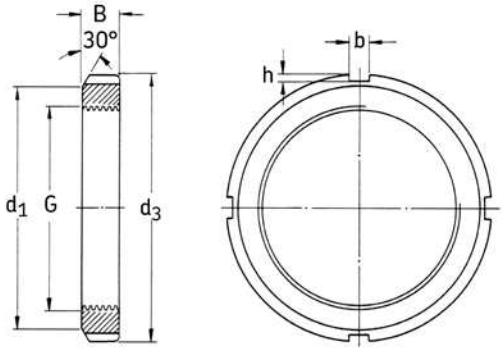


Type AOH

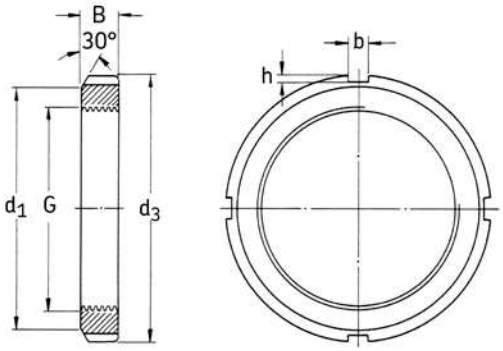
Dimensions								Mass	Designations					
d_1	d	B_1	B_2[1]	G	G_1	G_2	A		Withdrawal sleeve	Appropriate nut for dismounting	Hydraulic nut	Lock nut	Locking washer	Bearing(s)
mm						in	mm	kg	–					
710	750	300	316	Tr 800x7	50	G 1/4	15	159	**AOH 30/750**	HM 30/800	HMV 160	HM 30/710	MS 30/710	230/750 CAK/W33
		425	441	Tr 800x7	60	G 1/4	15	238	**AOH 31/750**	HM 31/800	HMV 160	HM 30/710	MS 30/710	231/750 CAK/W33
		540	556	Tr 800x7	65	G 1/4	15	320	**AOH 32/750**	HM 31/800	HMV 160	HM 30/710	MS 30/710	232/750 CAK/W33
		380	408	Tr 800x7	45	G 1/4	12	178	**AOH 240/750 G**	HM 31/800	HMV 160	HM 30/710	MS 30/710	240/750 CAK30/W33
		520	548	Tr 800x7	45	G 1/4	12	248	**AOH 241/750 G**	HM 31/800	HMV 160	HM 30/710	MS 30/710	241/750 CAK30/W33
750	800	308	326	Tr 850x7	50	G 1/4	15	204	**AOH 30/800**	HM 30/850	HMV 170	HM 30/750	MS 30/800-750	230/800 CAK/W33
		438	456	Tr 850x7	63	G 1/4	15	305	**AOH 31/800**	HM 31/850	HMV 170	HM 30/750	MS 30/800-750	231/800 CAK/W33
		550	568	Tr 850x7	67	G 1/4	15	401	**AOH 32/800**	HM 31/850	HMV 170	HM 30/750	MS 30/800-750	232/800 CAK/W33
		395	423	Tr 850x7	50	G 1/4	15	237	**AOH 240/800 G**	HM 31/850	HMV 170	HM 30/750	MS 30/800-750	240/800 CAK30/W33
		525	553	Tr 850x7	50	G 1/4	15	318	**AOH 241/800 G**	HM 31/850	HMV 170	HM 30/750	MS 30/800-750	241/800 CAK30/W33
800	850	325	343	Tr 900x7	53	G 1/4	15	230	**AOH 30/850**	HM 30/900	HMV 180	HM 30/800	MS 30/800-750	230/850 CAK/W33
		462	480	Tr 900x7	62	G 1/4	15	345	**AOH 31/850**	HM 31/900	HMV 180	HM 30/800	MS 30/800-750	231/850 CAK/W33
		585	603	Tr 900x7	70	G 1/4	15	461	**AOH 32/850**	HM 31/900	HMV 180	HM 30/800	MS 30/800-750	232/850 CAK/W33
		415	445	Tr 900x7	50	G 1/4	15	265	**AOH 240/850 G**	HM 31/900	HMV 180	HM 30/800	MS 30/800-750	240/850 CAK30/W33
		560	600	Tr 900x7	60	G 1/4	15	368	**AOH 241/850**	HM 31/900	HMV 180	HM 30/800	MS 30/800-750	241/850 CAK30/W33
850	900	335	355	Tr 950x8	55	G 1/4	15	253	**AOH 30/900**	HM 30/950	HMV 190	HM 30/850	MS 30/900-850	230/900 CAK/W33
		475	495	Tr 950x8	63	G 1/4	15	379	**AOH 31/900**	HM 31/950	HMV 190	HM 30/850	MS 30/900-850	231/900 CAK/W33
		585	605	Tr 950x8	70	G 1/4	15	489	**AOH 32/900**	HM 31/950	HMV 190	HM 30/850	MS 30/900-850	232/900 CAK/W33
		430	475	Tr 950x8	55	G 1/4	15	296	**AOH 240/900**	HM 31/950	HMV 190	HM 30/850	MS 30/900-850	240/900 CAK30/W33
		575	620	Tr 950x8	60	G 1/4	15	402	**AOH 241/900**	HM 31/950	HMV 190	HM 30/850	MS 30/900-850	241/900 CAK30/W33
900	950	355	375	Tr 1000x8	55	G 1/4	15	285	**AOH 30/950**	HM 30/1000	HMV 200	HM 30/900	MS 30/900-850	230/950 CAK/W33
		500	520	Tr 1000x8	62	G 1/4	15	426	**AOH 31/950**	HM 31/1000	HMV 200	HM 30/900	MS 30/900-850	231/950 CAK/W33
		600	620	Tr 1000x8	70	G 1/4	15	533	**AOH 32/950**	HM 31/1000	HMV 200	HM 30/900	MS 30/900-850	232/950 CAK/W33
		467	512	Tr 1000x8	55	G 1/4	15	340	**AOH 240/950**	HM 31/1000	HMV 200	HM 30/900	MS 30/900-850	240/950 CAK30/W33
		605	650	Tr 1000x8	60	G 1/4	15	449	**AOH 241/950**	HM 31/1000	HMV 200	HM 30/900	MS 30/900-850	241/950 CAK30/W33
950	1 000	365	387	Tr 1060x8	57	G 1/4	15	318	**AOH 30/1000**	HM 30/1060	HMV 212	HM 30/950	MS 30/950	230/1000 CAK/W33
		525	547	Tr 1060x8	63	G 1/4	15	485	**AOH 31/1000**	HM 31/1060	HMV 212	HM 30/950	MS 30/950	231/1000 CAK/W33
		630	652	Tr 1060x8	70	G 1/4	15	608	**AOH 32/1000**	HM 31/1060	HMV 212	HM 30/950	MS 30/950	232/1000 CAK/W33
		469	519	Tr 1060x8	57	G 1/4	15	369	**AOH 240/1000**	HM 31/1060	HMV 212	HM 30/950	MS 30/950	240/1000 CAK30/W33
		645	695	Tr 1060x8	65	G 1/4	15	519	**AOH 241/1000**	HM 31/1060	HMV 212	HM 30/950	MS 30/950	241/1000 CAK30/W33
1 000	1 060	385	407	Tr 1120x8	60	G 1/4	15	406	**AOH 30/1060**	HM 30/1120	HMV 224	HM 30/1000	MS 30/1000	230/1060 CAK/W33
		540	562	Tr 1120x8	65	G 1/4	15	599	**AOH 31/1060**	HM 30/1120	HMV 224	HM 30/1000	MS 30/1000	231/1060 CAK/W33
		498	548	Tr 1120x8	60	G 1/4	15	479	**AOH 240/1060**	HM 30/1120	HMV 224	HM 30/1000	MS 30/1000	240/1060 CAK30/W33
		665	715	Tr 1120x8	65	G 1/4	15	652	**AOH 241/1060**	HM 30/1120	HMV 224	HM 30/1000	MS 30/1000	240/1060 CAK30 W33

[1] Width before the sleeve is pressed into the bearing bore

Lock nuts
M 10x0.75 – M 115x2

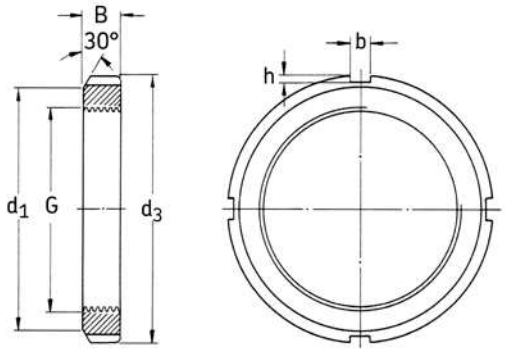


Dimensions						**Axial load carrying capacity**	**Mass**	**Designations**		
G	d_1	d_3	B	b	h	static		Lock nut	Appropriate locking washer	Hook/impact spanner
mm						kN	kg	–		
M 10x0.75	13.5	18	4	3	2	9.8	0.006	**KM 0**	MB 0	-
M 12x1	17	22	4	3	2	11.8	0.008	**KM 1**	MB 1	HN 1
M 15x1	21	25	5	4	2	14.6	0.012	**KM 2**	MB 2	HN 2
M 17x1	24	28	5	4	2	19.6	0.012	**KM 3**	MB 3	HN 3
M 20x1	26	32	6	4	2	24	0.02	**KM 4**	MB 4	HN 4
M 25x1.5	32	38	7	5	2	31.5	0.028	**KM 5**	MB 5	HN 5
M 30x1.5	38	45	7	5	2	36.5	0.038	**KM 6**	MB 6	HN 6
M 35x1.5	44	52	8	5	2	50	0.058	**KM 7**	MB 7	HN 7
M 40x1.5	50	58	9	6	2.5	62	0.078	**KM 8**	MB 8	HN 8
M 45x1.5	56	65	10	6	2.5	78	0.11	**KM 9**	MB 9	HN 9
M 50x1.5	61	70	11	6	2.5	91.5	0.14	**KM 10**	MB 10	HN 10
M 55x2	67	75	11	7	3	91.5	0.15	**KM 11**	MB 11	HN 11
M 60x2	73	80	11	7	3	95	0.16	**KM 12**	MB 12	HN 12
M 65x2	79	85	12	7	3	108	0.19	**KM 13**	MB 13	HN 13
M 70x2	85	92	12	8	3.5	118	0.22	**KM 14**	MB 14	HN 14
M 75x2	90	98	13	8	3.5	134	0.27	**KM 15**	MB 15	HN 15
M 80x2	95	105	15	8	3.5	173	0.36	**KM 16**	MB 16	HN 16
M 85x2	102	110	16	8	3.5	190	0.42	**KM 17**	MB 17	HN 17
M 90x2	108	120	16	10	4	216	0.51	**KM 18**	MB 18	HN 18
M 95x2	113	125	17	10	4	236	0.58	**KM 19**	MB 19	HN 19
M 100x2	120	130	18	10	4	255	0.68	**KM 20**	MB 20	HN 20
M 105x2	126	140	18	12	5	290	0.81	**KM 21**	MB 21	HN 21
M 110x2	133	145	19	12	5	310	0.89	**KM 22**	MB 22	HN 22
M 115x2	137	150	19	12	5	315	0.91	**KM 23**	MB 23	718909

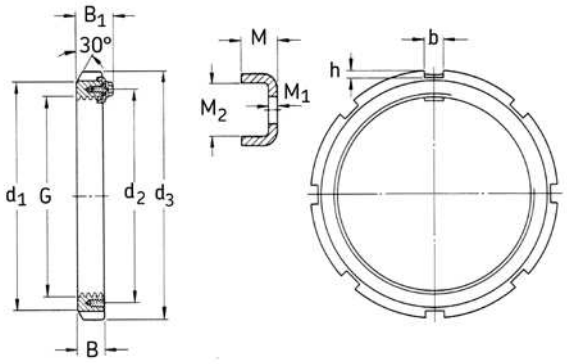


Dimensions						**Axial load carrying capacity**	**Mass**	**Designations**		
G	d_1	d_3	B	b	h	static		Lock nut	Appropriate locking washer	Hook/impact spanner
mm						kN	kg	–		
M 120x2	135	145	20	12	5	265	0.69	**KML 24**	MBL 24	718909
	138	155	20	12	5	340	0.98	**KM 24**	MB 24	718909
M 125x2	148	160	21	12	5	360	1.1	**KM 25**	MB 25	718909
M 130x2	145	155	21	12	5	285	0.84	**KML 26**	MBL 26	718909
	149	165	21	12	5	365	1.2	**KM 26**	MB 26	718909
M 135x2	160	175	22	14	6	430	1.4	**KM 27**	MB 27	718909
M 140x2	155	165	22	12	5	305	0.92	**KML 28**	MBL 28	718909
	160	180	22	14	6	430	1.4	**KM 28**	MB 28	718909
M 145x2	171	190	24	14	6	520	1.85	**KM 29**	MB 29	718909
M 150x2	170	180	24	14	5	390	1.3	**KML 30**	MBL 30	718909
	171	195	24	14	6	530	1.85	**KM 30**	MB 30	718909, 718910
M 155x3	182	200	25	16	7	540	2.05	**KM 31**	MB 31	718910
M 160x3	180	190	25	14	5	405	1.4	**KML 32**	MBL 32	718909
	182	210	25	16	7	585	2.25	**KM 32**	MB 32	718910
M 165x3	193	210	26	16	7	570	2.3	**KM 33**	MB 33	718910
M 170x3	190	200	26	16	5	430	1.6	**KML 34**	MBL 34	718910
	193	220	26	16	7	620	2.55	**KM 34**	MB 34	718910
M 180x3	200	210	27	16	5	450	1.8	**KML 36**	MBL 36	718910
	203	230	27	18	8	670	2.7	**KM 36**	MB 36	718910
M 190x3	210	220	28	16	5	475	1.9	**KML 38**	MBL 38	718910
	214	240	28	18	8	695	3	**KM 38**	MB 38	718910
M 200x3	222	240	29	18	8	625	2.6	**KML 40**	MBL 40	718910
	226	250	29	18	8	735	3.3	**KM 40**	MB 40	718910, 718911

Lock nuts/removal nuts
Tr 210x4 – Tr 280x4



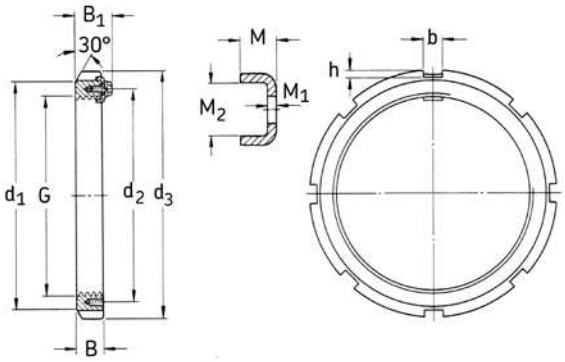
Dimensions						Mass	Designations		
							Lock nut	Appropriate locking	Impact span-
ner G	d_1	d_3	B	b	h			washer	
mm						kg	–		
Tr 210x4	238	270	30	20	10	5.1	**HM 42 T**	-	718911
Tr 220x4	250	280	32	20	10	4.75	**HM 44 T**	MB 44	718911
Tr 230x4	260	290	34	20	10	5.45	**HM 46 T**	-	718911
Tr 240x4	270	300	34	20	10	5.6	**HM 48 T**	MB 48	718911
Tr 250x4	290	320	36	20	10	7.45	**HM 50 T**	-	718911
Tr 260x4	300	330	36	24	12	7.55	**HM 52 T**	MB 52	718912
Tr 280x4	320	350	38	24	12	8.65	**HM 56 T**	MB 56	718912



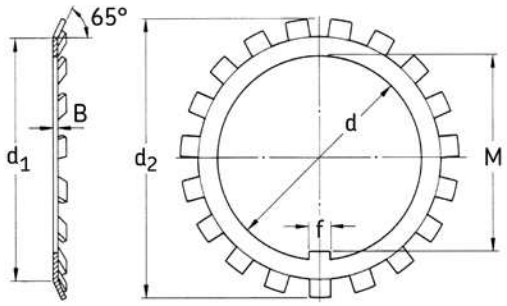
Dimensions											Mass	Designations		
Appropriate												Lock nut +	Hexagon-	
G	d_1	d_2	d_3	B	B_1	b	h	M	M_1	M_2		locking clip and screw (DIN 933)	headed screw	impact spanner
mm											kg	–		
Tr 220x4	242	229	260	30	41	20	9	12	4	13.5	2.75	**HM 3044 + MS 3044**	M 6x12	718911
Tr 240x4	270	253	290	34	46	20	10	12	4	17.5	4.5	**HM 3048 + MS 3052-48**	M 8x16	718911
Tr 260x4	290	273	310	34	46	20	10	12	4	17.5	4.8	**HM 3052 + MS 3052-48**	M 8x16	718911
Tr 280x4	310	293	330	38	50	24	10	12	4	17.5	5.75	**HM 3056 + MS 3056**	M 8x16	718912
Tr 300x4	336	316	360	42	54	24	12	12	4	20.5	8.35	**HM 3060 + MS 3060**	M 8x16	718912
	340	326	380	40	53	24	12	12	4	30.5	11.5	**HM 3160 + MS 3160**	M 10x20	718912
Tr 320x5	356	336	380	42	55	24	12	15	5	21	9	**HM 3064 + MS 3068-64**	M 8x16	718912
	360	346	400	42	56	24	12	15	5	31	13	**HM 3164 + MS 3164**	M 10x20	718912[1]
Tr 340x5	376	356	400	45	58	24	12	15	5	21	11	**HM 3068 + MS 3068-64**	M 8x16	718912[1]
	400	373	440	55	72	28	15	15	5	38	24	**HM 3168 + MS 3172-68**	M 12x25	718913
Tr 360x5	394	375	420	45	58	28	13	15	5	20	11.5	**HM 3072 + MS 3072**	M 8x16	718913
	420	393	460	58	75	28	15	15	5	38	26.5	**HM 3172 + MS 3172-68**	M 12x25	718913
Tr 380x5	422	399	450	48	62	28	14	15	5	24	15	**HM 3076 + MS 3080-76**	M 10x20	718913
	440	415	490	60	77	32	18	15	5	40	32	**HM 3176 + MS 3176**	M 12x25	718913
Tr 400x5	442	419	470	52	66	28	14	15	5	24	17	**HM 3080 + MS 3080-76**	M 10x20	718913
	460	440	520	62	82	32	18	15	5	45	38	**HM 3180 + MS 3184-80**	M 16x30	718913
Tr 420x5	462	439	490	52	66	32	14	15	5	24	18.5	**HM 3084 + MS 3084**	M 10x20	718913
	490	460	540	70	90	32	18	15	5	45	45	**HM 3184 + MS 3184-80**	M 16x30	718914
Tr 440x5	490	463	520	60	77	32	15	15	5	28	26	**HM 3088 + MS 3092-88**	M 12x25	718913
	510	478	560	70	90	36	20	15	5	43	46.5	**HM 3188 + MS 3192-88**	M 16x30	718914
Tr 460x5	510	483	540	60	77	32	15	15	5	28	27	**HM 3092 + MS 3092-88**	M 12x25	718914
	540	498	580	75	95	36	20	15	5	43	50.5	**HM 3192 + MS 3192-88**	M 16x30	718914
Tr 480x5	530	503	560	60	77	36	15	15	5	28	28	**HM 3096 + MS 30/500-96**	M 12x25	718914
	560	528	620	75	95	36	20	15	5	53	62	**HM 3196 + MS 3196**	M 16x30	718914
Tr 500x5	550	523	580	68	85	36	15	15	5	28	33.5	**HM 30/500 + MS 30/500-96**	M 12x25	718914
	580	540	630	80	100	40	23	15	5	45	63.5	**HM 31/500 + MS 31/500**	M 16x30	718914
Tr 530x6	590	558	630	68	90	40	20	21	7	34	42.5	**HM 30/530 + MS 30/600-530**	M 16x30	718915
	610	575	670	80	105	40	23	21	7	51	71.5	**HM 31/530 + MS 31/530**	M 20x40	718915

[1] Impact spanner 718913 also suitable

Lock nuts with locking clip
Tr 560x6 – Tr 1120x8



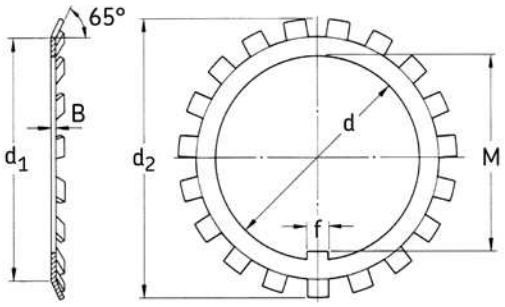
Dimensions											Mass	Designations		
Appropriate G	d_1	d_2	d_3	B	B_1	b	h	M	M_1	M_2		Lock nut + locking clip and screw (DIN 933)	Hexagon-headed screw	impact spanner
mm											kg	–		
Tr 560x6	610	583	650	75	97	40	20	21	7	29	44.5	**HM 30/560 + MS 30/560**	M 16x30	718915
	650	608	710	85	110	45	25	21	7	54	86.5	**HM 31/560 + MS 31/600-560**	M 20x40	718915
Tr 600x6	660	628	700	75	97	40	20	21	7	34	52.5	**HM 30/600 + MS 30/600-530**	M 16x30	718915
	690	648	750	85	110	45	25	21	7	54	91.5	**HM 31/600 + MS 31/600-560**	M 20x40	718915
Tr 630x6	690	658	730	75	97	45	20	21	7	34	55 0	**HM 30/630 + MS 30/630**	M 16x30	718915
	730	685	800	95	120	50	28	21	7	61	125	**HM 31/630 + MS 31/630**	M 20x40	718916
Tr 670x6	740	703	780	80	102	45	20	21	7	39	68.5	**HM 30/670 + MS 30/670**	M 16x30	718916
	775	730	850	106	131	50	28	21	7	66	155	**HM 31/670 + MS 31/670**	M 20x40	718916
Tr 710x7	780	742	830	90	112	50	25	21	7	39	91.5	**HM 30/710 + MS 30/710**	M 16x30	718916
	825	772	900	106	133	55	30	21	7	69	162	**HM 31/710 + MS 31/710**	M 24x50	718916
Tr 750x7	820	782	870	90	112	55	25	21	7	39	940	**HM 30/750 + MS 30/800-750**	M 16x30	718916
	875	813	950	112	139	60	34	21	7	70	190	**HM 31/750 + MS 31/800-750**	M 24x50	718916
Tr 800x7	870	832	920	90	112	55	25	21	7	39	99.5	**HM 30/800 + MS 30/800-750**	M 16x30	718916
	925	863	1 000	112	139	60	34	21	7	70	202	**HM 31/800 + MS 31/800-750**	M 24x50	-
Tr 850x7	925	887	980	90	115	60	25	21	7	44	115	**HM 30/850 + MS 30/900-850**	M 20x40	-
	975	914	1 060	118	145	70	38	21	7	71	234	**HM 31/850 + MS 31/850**	M 24x50	-
Tr 900x7	975	937	1 030	100	125	60	25	21	7	44	131	**HM 30/900 + MS 30/900-850**	M 20x40	-
	1 030	969	1 120	125	154	70	38	21	7	76	279	**HM 31/900 + MS 31/900**	M 24x50	-
Tr 950x8	1 025	985	1 080	100	125	60	25	21	7	46	139	**HM 30/950 + MS 30/950**	M 20x40	-
	1 080	1 017	1 170	125	154	70	38	21	7	78	293	**HM 31/950 + MS 31/950**	M 24x50	-
Tr 1000x8	1 085	1 040	1 140	100	125	60	25	21	7	51	157	**HM 30/1000 + MS 30/1000**	M 20x40	-
	1 140	1 077	1 240	125	154	70	38	21	7	88	336	**HM 31/1000 + MS 31/1000**	M 24x50	-
Tr 1060x8	1 145	1 100	1 200	100	125	60	25	21	7	51	166	**HM 30/1060 + MS 30/1000**	M 20x40	-
	1 210	1 137	1 300	125	154	70	38	21	7	88	354	**HM 31/1060 + MS 31/1000**	M 24x50	-
Tr 1120x8	1 205	1 160	1 260	100	125	60	25	21	7	51	175	**HM 30/1120 + MS 30/1000**	M 20x40	-



Dimensions						Mass	Designation
d	d_1	d_2	B	f	M		
mm						g	–
10	13.5	21	1	3	8.5	1	**MB 0**
12	17	25	1	3	10.5	2	**MB 1**
15	21	28	1	4	13.5	3	**MB 2**
17	24	32	1	4	15.5	3	**MB 3**
20	26	36	1	4	18.5	4	**MB 4**
25	32	42	1.25	5	23	6	**MB 57**
30	38	49	1.25	5	27.5	8	**MB 6**
35	44	57	1.25	6	32.5	11	**MB 7**
40	50	62	1.25	6	37.5	13	**MB 8**
45	56	69	1.25	6	42.5	15	**MB 9**
50	61	74	1.25	6	47.5	16	**MB 10**
55	67	81	1.5	8	52.5	22	**MB 11**
60	73	86	1.5	8	57.5	24	**MB 12**
65	79	92	1.5	8	62.5	30	**MB 13**
70	85	98	1.5	8	66.5	32	**MB 14**
75	90	104	1.5	8	71.5	35	**MB 15**
80	95	112	1.75	10	76.5	46	**MB 16**
85	102	119	1.75	10	81.5	53	**MB 17**
90	108	126	1.75	10	86.5	61	**MB 18**
95	113	133	1.75	10	91.5	66	**MB 19**
100	120	142	1.75	12	96.5	77	**MB 20**
105	126	145	1.75	12	100.5	83	**MB 21**
110	133	154	1.75	12	105.5	91	**MB 22**

Dimensions						Mass	Designation
d	d_1	d_2	B	f	M		
mm						g	–
115	137	159	2	12	110.5	107	**MB 23**
120	135	152	2	14	115	70	**MBL 24**
	138	164	2	14	115	108	**MB 24**
125	148	170	2	14	120	115	**MB 25**
130	145	161	2	14	125	80	**MBL 26**
	149	175	2	14	125	115	**MB 26**
135	160	185	2	14	130	140	**MB 27**
140	155	172	2	16	135	90	**MBL 28**
	160	192	2	16	135	135	**MB 28**
145	172	202	2	16	140	165	**MB 29**
150	170	189	2	16	145	100	**MBL 30**
	171	205	2	16	145	180	**MB 30**
155	182	212	2.5	16	147.5	200	**MB 31**
160	180	199	2.5	18	154	140	**MBL 32**
	182	217	2.5	18	154	215	**MB 32**
165	193	222	2.5	18	157.5	240	**MB 33**
170	190	211	2.5	18	164	150	**MBL 34**
	193	232	2.5	18	164	240	**MB 34**
180	200	222	2.5	20	174	160	**MBL 36**
	203	242	2.5	20	174	260	**ML 36**
190	210	232	2.5	20	184	170	**MBL 38**
	214	252	2.5	20	184	260	**MB 38**
200	222	245	2.5	20	194	220	**MBL 40**
	226	262	2.5	20	194	280	**MB 40**
220	250	292	3	24	213	350	**MB 44**
240	270	312	3	24	233	450	**MB 48**
260	300	342	3	28	253	650	**MB 52**
280	320	362	3	28	273	1 050	**MB 56**

Locking washers type MB . . A
d 12 – 100 mm



Dimensions						Mass	Designation
d	d_1	d_2	B	f	M		
mm						g	–
12	17	25	1.2	3	10.5	2.5	**MB 1 A**
15	21	28	1.2	4	13.5	3.5	**MB 2 A**
17	24	32	1.2	4	15.5	3.5	**MB 3 A**
20	26	36	1.2	4	18.5	5	**MB 4 A**
25	32	42	1.8	5	23	8.5	**MB 5 A**
30	38	49	1.8	5	27.5	11	**MB 6 A**
35	44	57	1.8	6	32.5	15.5	**MB 7 A**
40	50	62	1.8	6	37.5	18	**MB 8 A**
45	56	69	1.8	6	42.5	21	**MB 9 A**
50	61	74	1.8	6	47.5	22.5	**MB 10 A**
55	67	81	2.5	8	52.5	36.5	**MB 11 A**
60	73	86	2.5	8	57.5	40	**MB 12 A**
65	79	92	2.5	8	62.5	50	**MB 13 A**
70	85	98	2.5	8	66.5	53	**MB 14 A**
75	90	104	2.5	8	71.5	58	**MB 15 A**
80	95	112	2.5	10	76.5	66	**MB 16 A**
85	102	119	2.5	10	81.5	76	**MB 17 A**
90	108	126	2.5	10	86.5	87	**MB 18 A**
95	113	133	2.5	10	91.5	94	**MB 19 A**
100	120	142	2.5	12	96.5	110	**MB 20 A**

Index

1

1200 series, self-aligning ball bearings 96

1300 series, self-aligning ball bearings 97

16000 series, deep groove ball bearings 47

16100 series, deep groove ball bearings 48

2

200 series, deep groove ball bearings (max type) 55

21300 series, spherical roller bearings 162

2200 series, self-aligning ball bearings 100

22200 series,
spherical roller bearings (standard) 162
spherical roller bearings (sealed) 173
spherical roller bearings (printing press) 180
spherical roller bearings (continuous caster) 182

22300 series,
spherical roller bearings (standard) 163
spherical roller bearings (shaker screen) 178
spherical roller bearings (printing press) 180

2300 series, self-aligning ball bearings 101

23000 series,
spherical roller bearings (standard) 164
spherical roller bearings (sealed) 174
spherical roller bearings (printing press) 180
spherical roller bearings (continuous caster) 182

23100 series,
spherical roller bearings (standard) 166
spherical roller bearings (sealed) 175
spherical roller bearings (printing press) 180

23200 series,
spherical roller bearings (standard) 167
spherical roller bearings (sealed) 176
spherical roller bearings (printing press) 180
spherical roller bearings (continuous caster) 180

23800 series, spherical roller bearings 168

23900 series, spherical roller bearings 168

24000 series,
spherical roller bearings (standard) 169
spherical roller bearings (sealed) 176
spherical roller bearings (continuous caster) 180

24100 series,
spherical roller bearings 169
spherical roller bearings (sealed) 177
spherical roller bearings (continuous caster) 180

24800 series, spherical roller bearings 172

24900 series, spherical roller bearings 172

3

300 series, deep groove ball bearings (max type) 55

3200 A series, angular contact ball bearings 82

3200 E series, angular contact ball bearings 84

3300 A series, angular contact ball bearing 83

3300 E series, angular contact ball bearings 84

3300 DNR series, angular contact ball bearing 81

30200 series,
Taper roller bearings 232
Taper roller bearings, DF series (paired single row) 242

30300 series, taper roller bearings 233

31300 series,
Taper roller bearings 234
Taper roller bearings, DF series (paired single row) 243

32000 series,
Taper roller bearings 235
Taper roller bearings, DF series (paired single row) 244

32200 series,
Taper roller bearings 235
Taper roller bearings, DF series (paired single row) 245

32300 series, taper roller bearings 236

32900 series, taper roller bearings 237

33000 series, taper roller bearings 238

33100 series, taper roller bearings 238

33200 series, taper roller bearings 239

4

450000 series, spherical roller (printing press) 181

452300 series, spherical roller (shaker screen) 179

453300 series, spherical roller (shaker screen) 179

460000 series, spherical roller (printing press) 181

4762(00)B-VSB series, roller bearing unit inserts 328

5

51100 series, thrust ball bearings 112

51200 series, thrust ball bearings 114

51300 series, thrust ball bearings 116

51400 series, thrust ball bearings 117

52200 series, thrust ball bearings 118

52300 series, thrust ball bearings 119

52400 series, thrust ball bearings 119

53200 series, thrust ball bearings 120

53300 series, thrust ball bearings 121

53400 series, thrust ball bearings 121

54200 series, thrust ball bearings 122

54300 series, thrust ball bearings 122

54400 series, thrust ball bearings 122

6

6000 series, deep groove ball bearing 40

6200 series, deep groove ball bearings 42

6200/C78 series, deep groove ball bearings 54

6300 series, deep groove ball bearings 44

6300/C78 series, deep groove ball bearings 54

6400 series, deep groove ball bearings 46

61800 series, deep groove ball bearings 49

61900 series, deep groove ball bearings 52

7

7200 series, angular contact ball bearings 69

7300 series, angular contact ball bearings 70

7400 series, angular contact ball bearings 71

A

ABSY 4752(00) series, roller bearing unit inserts 329

Accessories, split pillow blocks (inch series)
- Adapters SNW/SNP series 442-446
- Locknuts, lockwashers and lockplates 447-453
- Withdrawal sleeves, removal nuts 454-455

Accessories, split pillow blocks (metric series)
- Adapters sleeves 536-563
- Withdrawal sleeves 563-569
- Locknuts 570-572
- Locknuts with locking clips 573-574
- Locking washers 575-576

Advanced calculation methods 18

AH series, split pillow block (metric accessories) 563-569

Air handling ball bearing units 268-271, 284-287

AN series, split pillow block (inch accessories) 448-455

Angular contact ball bearings
- Nomenclature 57
- Technical features 58
- Introduction, highlights, and basic design 59-67
- Product specification tables 68-84

AOH series, split pillow block (metric accessories) 565-569

ASK series, split pillow block (inch accessories) 454-455

Axial displacement 10

B

BA2B 459000 series, angular contact ball bearings 80

Ball Bearing Units
- Nomenclature 249
- Introduction / product description 250-256
- Air handling ball bearing units 256
- Product specification tables 258-287
- Insert bearings 289-299

Bearing type 7

Bearing characteristics 13

BC4 series, cylindrical four-row bearing 144

BS2-2200 series, spherical roller bearings (sealed) 173

C

C2200 series,
- CARB (standard) 192

C2300 series,
- CARB (standard) 193

C3000 series,
- CARB (standard) 194

C3100 series,
- CARB (standard) 195

C3200 series, CARB 195

C39/000 series, CARB 196

C4000 series, CARB 197

C4100 series, CARB 197

C4900 series, CARB 197

C5000 series, CARB 197

C5900 series, CARB 197

C6000 series, CARB 197

C6900 series, CARB 197

Calculation tools 19

CARB
- Nomenclature 185
- Technical features 186
- Introduction, highlights, and basic design 187-191
- Product specification tables 192-197

Conversions 3

Continuous castor bearings 180

Cylindrical roller bearings
- Nomenclature 127
- Technical features 128
- Introduction, highlights, and basic design 129-135
- Product specification tables 136-152

D

Deep groove ball bearings
- Nomenclature 33
- Technical features 34
- Introduction, highlights, and basic design 35-39
- Product specification tables 40-55

Designations for rolling bearings 5-6

Dimensions 11

E

ECB 23200 series, spherical roller (printing press) 180

ECBI 11200, spherical roller bearings 182

Engineering consultancy services 22

Equivalent dynamic bearing load 17

Explorer bearings 25

F

F2B two-bolt flange ball bearing units 250

F3BBD three-bolt flange roller bearing unit 328

F3BR (FYR) round three-bolt, flange roller bearing unit 322

F4B four-bolt flange ball bearing units 250

F4B four-bolt square flange roller bearing unit 330

F4BBD four-bolt flange roller bearing unit 328

F4BE (FYE) four-bolt, type E dimensions flange roller bearing unit 320

F4BR (FYR) round, four-bolt, flange roller bearing unit 322

F4BRP (FYRP) round, piloted four-bolt flange roller bearing unit 324

F6BRP (FYRP) round piloted six-bolt, piloted flange roller bearing unit 324

H

H series, split pillow blocks (metric accessories) 536-557

HA series, split pillow blocks (metric accessories) 558-562

HE series, split pillow blocks (metric accessories) 558-562

HK series, needle roller bearings 190

HM series, split pillow block (metric accessories) 542-557

HS series, split pillow blocks (metric accessories) 558-559

I

I 112000 series, spherical roller bearings 182

I 26300 series, spherical roller bearings 182

I 28800 series, spherical roller bearings 182

I 37600 series, spherical roller bearings 182

Internal clearance 22
- Angular contact ball bearings 64
- Ball bearing units 293
- CARB 189
- Cylindrical roller bearings 133
- Deep groove ball bearings 37
- Needle roller bearings 205
- Roller bearing units 328
- Self-aligning ball bearings 93
- Spherical roller bearings 160
- Taper roller bearings 229

K

KM series, split pillow blocks (metric series) 536-571

L

Load carrying capacity and life 14

Loads 8
- Angular contact ball bearings 67
- Ball bearing units 254
- CARB 191
- Cylindrical roller bearings 134
- Deep groove ball bearings 38
- Needle roller bearings 205
- Self-aligning ball bearings 92
- Spherical roller bearings 161
- Split pillow blocks (inch series) 359
- Split pillow blocks (metric series) 476
- Split pillow blocks SNL 30 and 31 (metric series) 516
- Taper roller bearings 229
- Thrust bearings 108

Lubrication
- Deep groove ball bearings 37
- Split pillow blocks (inch series) 354
- Split pillow blocks (metric series) 470, 512

Lubrication 24

Lubrication selection 20

M

Materials for rolling bearings 23

MB series, split pillow block (metric accessories) 536-576

Misalignment 9

Mounted products, please reference...
- Ball bearing units
- Roller bearings units
- Split pillow blocks

Mounting and dismounting 11
- Split pillow blocks (metric series) 449
- Split pillow block SNL 30 and 31 (metric series) 491

N

N series, split pillow block (inch accessories) 424-428

NA series, needle roller bearings
- 4800 series 210
- 4900 series 211
- 6900 series 213

NCF series, cylindrical roller bearings 147

Needle roller bearings
- Nomenclature 201
- Technical features 202
- Introduction, highlights, and basic design 203-205
- Product specification tables 206-224

NJG series, cylindrical roller bearings 148

NK series, needle roller bearings 214

NKI series, needle roller bearings 217

NKIS series, needle roller bearings 219

NKS series, needle roller bearings 220

Nomenclature
- Angular contact ball bearings 57
- Ball bearing units 249
- CARB 185
- Cylindrical roller bearings 129
- Deep groove ball bearings 33
- Insert ball bearings 292
- Needle roller bearings 201
- Roller bearing units 305
- Self-aligning ball bearings 89
- Spherical roller bearings 153
- Split pillow blocks (inch series) 337
- Split pillow blocks (metric series) 457
- Taper roller bearings 225
- Thrust ball bearings 105

NU, NUP series, cylindrical roller bearings
- 1000 series 138
- 200 series 140
- 2200 series 141
- 2300 series 143
- 300 series 144
- 400 series 145

O

OH series, split pillow block (metric accessories) 538-557

OSNP Hydraulic assist adapter series 440

OSNW Hydraulic assist adapter series 440

P

P2B two-bolt, pillow block ball bearing unit 250

P2B (SYR) two-bolt, pillow block roller bearing unit 316

P2BA (SYAF) two-bolt, pillow block roller bearing unit SAF dimensions 318

P2BE (SYE) two-bolt, pillow block roller bearing unit Type E dimensions 312

P2BT two-bolt, tapped base ball bearing unit 250

P4B four-bolt, pillow block roller bearing unit 332

P4BA (FSYAF) four-bolt, pillow block roller bearing unit SAF dimensions 318

P4BE (FSYE) four-bolt, pillow block roller bearing unit SAF dimensions 314

PL series, split pillow block (inch accessories) 452

Precision 9

Preload 10

Printing press bearings 180

Q

QJ200 series, angular contact ball bearings 74

QJ300 series, angular contact ball bearings 76

QJ1000 series, angular contact ball bearings 78

Quiet running 10

R

RNA series, needle roller bearings
- 4800 series 221
- 4900 series 223
- 6900 series 224

Roller bearing units
- Nomenclature 303
- Introduction / product description 304-309
- Seal selection 310-311
- Product specification tables 312-335

S

SAF series, split pillow blocks (inch series)
- 1300 362
- 1500 264
- 1600 366
- 22200 368
- 22300 370
- 22500 372
- 22600 374
- 23000 376

SAF series, split pillow blocks (inch series) - CARB
- C2200 378
- C2300 380
- C2500 382
- C2600 384
- C3000 386

SAW series, split pillow blocks (inch series)
- Nomenclature 399
- 23200 400
- 23500 402

SDAF series, split pillow blocks (inch series)
- 22200 412
- 22300 414
- 22500 416
- 22600 418
- 23000 424
- 23100 428
- 23200 432

Seals
- Roller bearing units 311
- Split pillow blocks (inch series) 343
- Split pillow blocks (metric series) 460, 509

Selecting bearing size using the life equations 14

Self-aligning ball bearings
Nomenclature 89
Technical features 90
Introduction, highlights, and basic design 91-95
Product specification tables 96-101

Shaft fits
Split pillow block housings 359

Shaker screen bearings 178

SK series, split pillow block (inch accessories) 454-455

Snap rings & grooves 36

SNL series, split pillow blocks (metric series)
for bearings on adapter sleeves 518-525
for bearings with cylindrical bore 526-530
Sealing arrangements 500-502

SNL 30 series, split pillow blocks (metric series)
for bearings on adapter sleeves 524
for bearings with cylindrical bore 530

SNP series, split pillow block (inch accessories) 443-446

SNW series, split pillow block (inch accessories) 442-446

Speed 9
Ball bearing units 293

Spherical roller bearings
Nomenclature 153
Technical features 154
Introduction, highlights, and basic design 155-161
Product specification tables 162-184

Spherical roller thrust bearings
Nomenclature 105
Technical features 106
Introduction, highlights, and basic design 107-111
Product specification tables 123-126

Split pillow block (inch series)
Nomenclature 337
Introduction / product description 338-342
Seals & speed limits 343-353
Lubrication 354-358
Shaft fits / housing loads 359-365
Product specification tables 366-439

Split pillow block SNL (metric series), 20-160 mm bore
Nomenclature 503
Introduction / product description 504-505
Seals 506-509
End covers, locating rings, displacement 510-511
Lubrication 512-514
Mounting 515
Load 516-517
Product specification tables 518-531

Split pillow block SNL accessories 532-576

Static load carrying capacity 19

Stiffness 10

T

T2 series, taper roller bearings 240

T4 series, taper roller bearings 240

T7 series, taper roller bearings 240

Taper roller bearing
Nomenclature 225
Technical features 226
Introduction, highlights, and basic design 227-231
Product specification tables 232-246

Thrust ball bearings
Nomenclature 105
Technical features 106
Introduction, highlights, and basic design 107-109
Seating washers 110-111
Product specification tables 112-126

Tolerances 11

U

U200 series, thrust ball seating washers 110

U300 series, thrust ball seating washers 110

U400 series, thrust ball seating washers 111

V

Variations
Angular contact ball bearings 60
CARB 188
Deep groove ball bearings 36
Needle roller bearings 204
Self-aligning ball bearings 91
Spherical roller bearings 156
Taper roller bearings 228

W

W series, split pillow block (inch accessories) 424-428

Wide Inner Ring Bearings 290-299

WSTU center pull cast iron take-up ball bearing units 251

WSTU cast iron take-up roller bearing units 334

Y

YAR series, set screw locking insert bearings 296

YAR-2F series, set screw locking insert bearings 295

YAT series, set screw locking insert bearings 294

YEL-2F series, eccentric locking insert bearings 298

YET series, eccentric locking insert bearings 297

YSP SB-2F series, ConCentra™ locking insert bearings 299

Notes

Notes

Notes

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