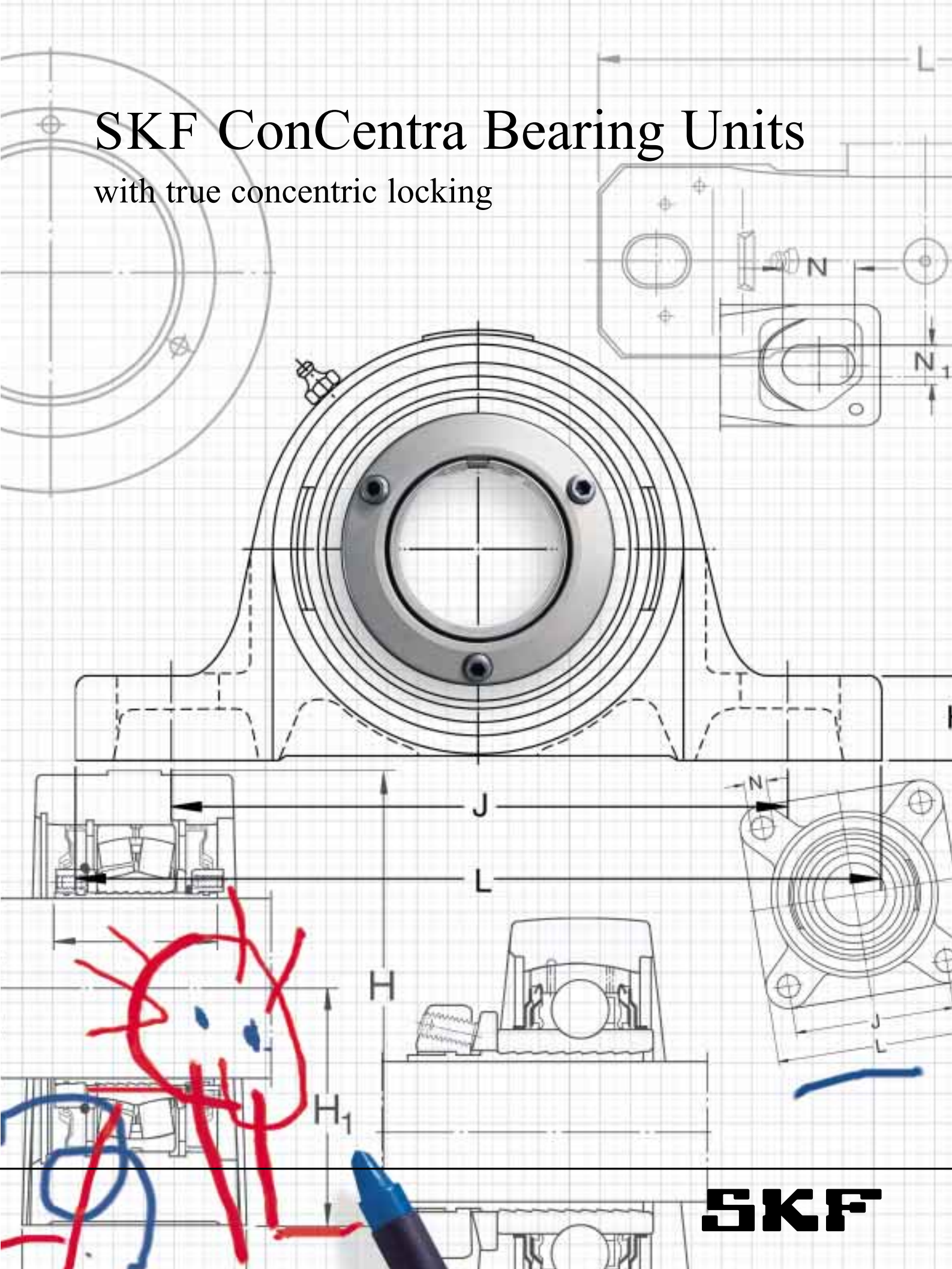
SKF ConCentra Bearing Units

with true concentric locking

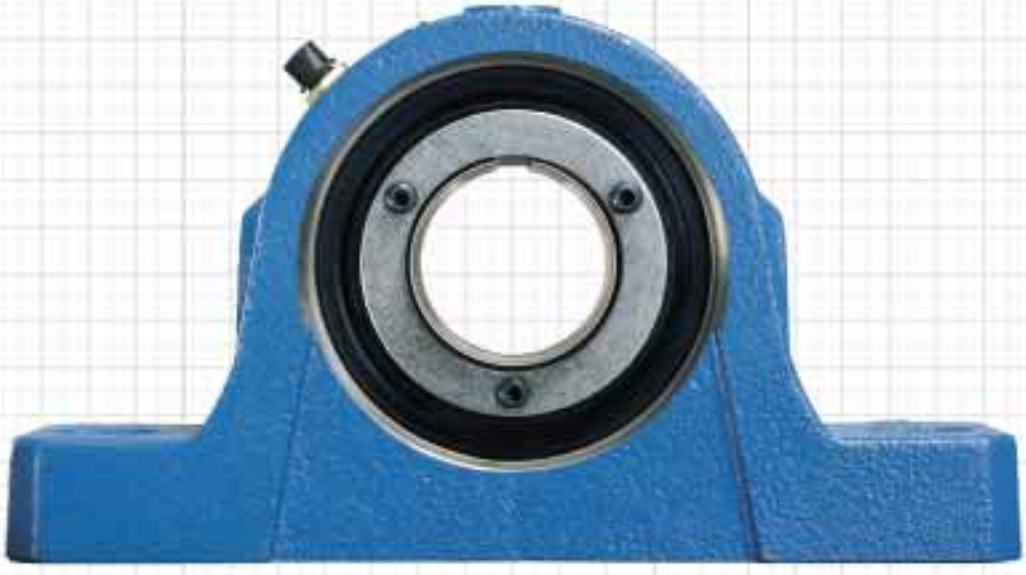


SKF

A new range of bearing units with a revolutionary locking system

SKF ConCentra Ball Bearing Unit

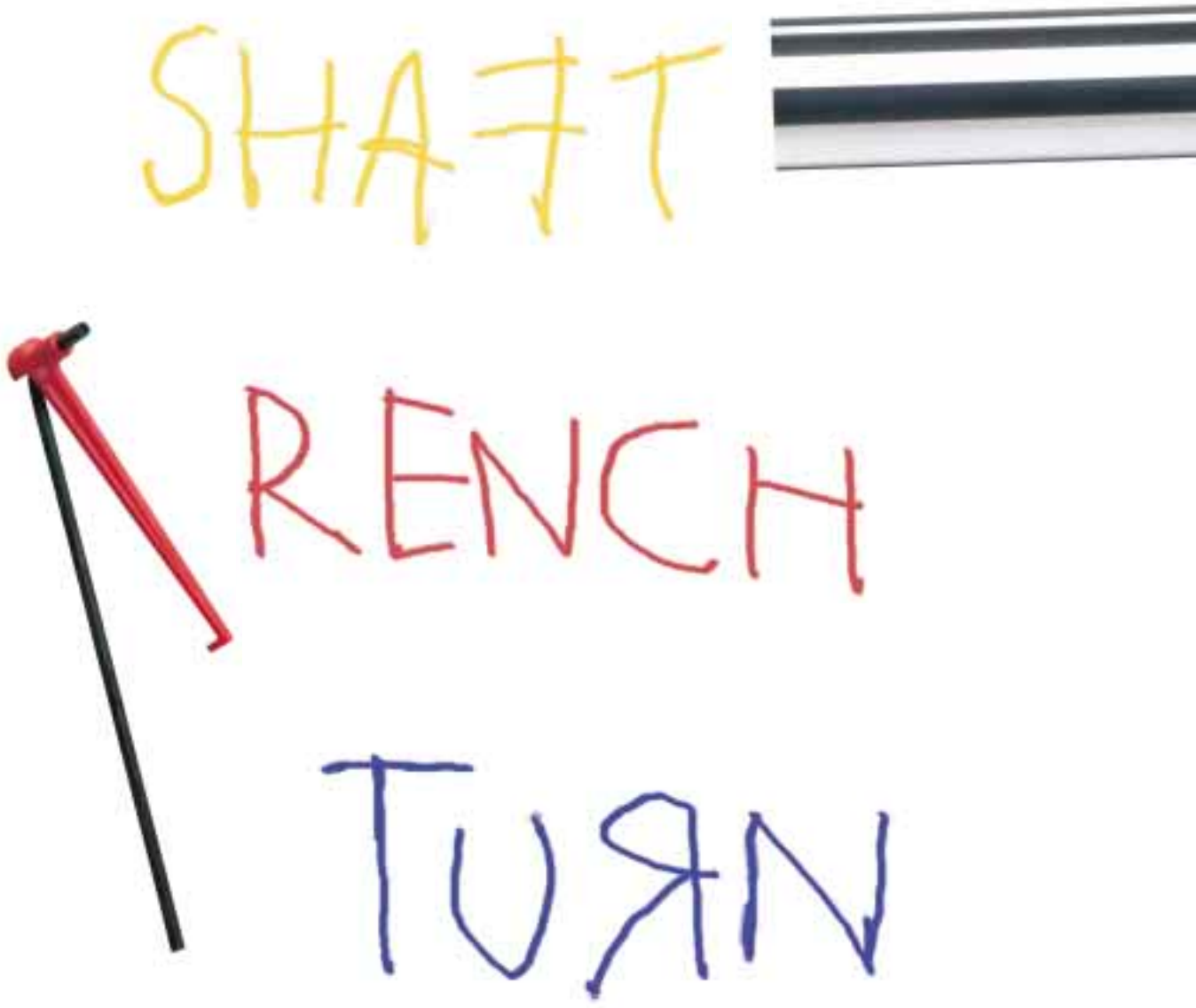
with a sealed SKF deep groove ball bearing, pre-lubricated for life or pre-lubricated with a lubrication fitting



SKF ConCentra Roller Bearing Unit

with the unique SKF Explorer spherical roller bearing, sealed and pre-lubricated with a lubrication fitting

Proven ease of installation



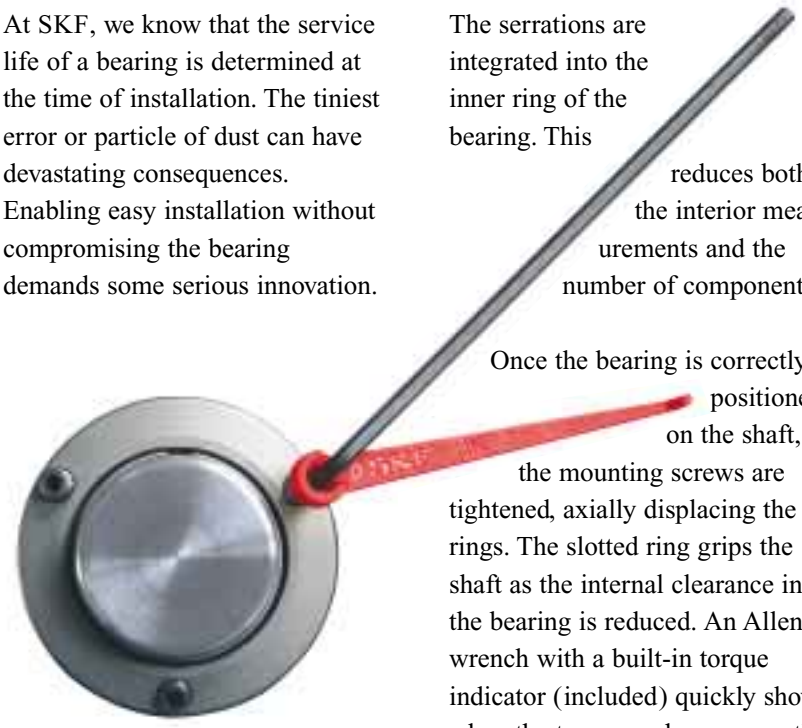
A bearing unit with integrated true concentric locking takes a firm, almost 360° grip on the shaft.

SKF ConCentra bearing units are complete and ready to mount. The hard work has already been done by SKF. The rest is so easy a child could do it.

Refined technology

ConCentra bearing units are the result of extensive consultation with customers. They told us what they wanted from the bearing of the future: maximum reliability and easy installation.

At SKF, we know that the service life of a bearing is determined at the time of installation. The tiniest error or particle of dust can have devastating consequences. Enabling easy installation without compromising the bearing demands some serious innovation.



The ConCentra torque wrench makes it easy to tighten the screws correctly.

By using sealed, pre-lubricated bearings in a solid housing, we eliminate most sources of human error. But the real innovation is the unique connection between the bearing and the shaft – SKF ConCentra – a built-in mechanical connector that applies a near 360° concentric grip around the entire circumference of the shaft. With the right force and the right internal clearance, every time.

The ConCentra concept is based on two paired rings with precision-engineered serrations on their contact surface. The rings respond to axial displacement by expanding radially against the shaft.

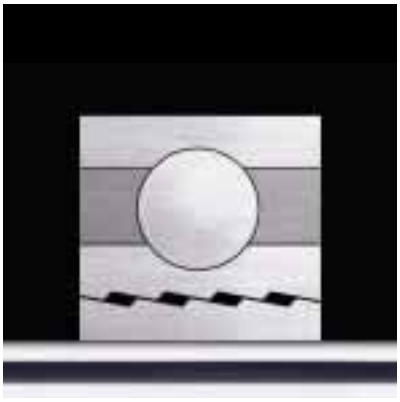
The serrations are integrated into the inner ring of the bearing. This reduces both the interior measurements and the number of components.

Once the bearing is correctly positioned on the shaft, the mounting screws are tightened, axially displacing the rings. The slotted ring grips the shaft as the internal clearance in the bearing is reduced. An Allen wrench with a built-in torque indicator (included) quickly shows when the torque and consequently the internal clearance conform to SKF's recommendations.

This technology enables a bearing to operate with maximum reliability – improving both function and service life.

Rings with precision-engineered serrations are the foundation of ConCentra bearing units.

The rings respond to axial displacement by expanding evenly around the entire circumference of the shaft.



The result is an easy-to-install unit with reliable function – and no need to increase dimensions when replacing traditional bearings units.

Future benefits

IMPROVING bearing functionality is a practical way of upgrading a machine. It doesn't have to increase overall costs, either – over the life cycle of the machine, it often reduces costs.

Easy mounting
ConCentra bearing units provide superb bearing performance, yet can be mounted as quickly and easily as the simplest solutions on the market.

Conventional mounting with set screws results in uneven load distribution. Shaft damage caused by screws makes removal difficult and may displace the shaft axis from the center of the bearing, with a risk of imbalance and vibrations.

All these problems are effectively eliminated by ConCentra, thanks to true concentric locking.

If you already use traditional concentric bearing arrangements, ConCentra will speed up installation. If you use simple locking solutions, ConCentra is a radical upgrade with no increase in mounting time. And there's no need for ground and polished shafts – ConCentra can handle tolerances as low as ISO h9/IT5 with no problem.

Improved function
Dirt particles and improper mounting are two of the most common causes of bearing failure. ConCentra bearing units eliminate both problems.

Factory assembly and concentric mounting give the bearings the best possible chance of trouble-free operation. And there is no eccentric mounting to cause fit-related corrosion problems.

Less maintenance
ConCentra locking technology reduces vibration and fretting corrosion. The result is longer service intervals and less need for service-related resources. Often, once a ConCentra bearing unit is mounted, it never needs to be touched by a human hand again.

If service is needed, there is not an easier or quicker way to dismount bearings on the market today. ConCentra eliminates costly, time-consuming shaft repair, so your equipment is up and running faster. SKF ConCentra locking technology is part of our continuous improvement in Total Shaft Solutions™.

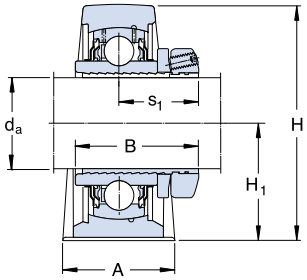
ConCentra bearing units are a dependable, cost-efficient solution for a wide range of application areas, including air handling, agriculture …

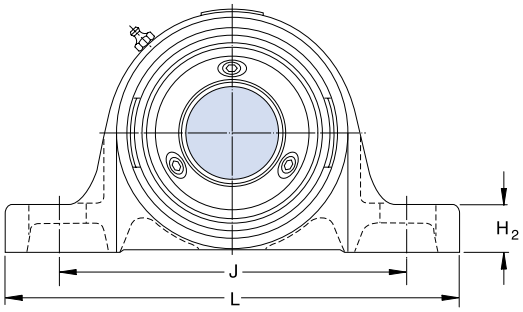
… and material handling.
Please contact SKF for references.

ConCentra Ball Bearing Unit

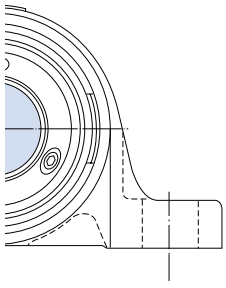
with true concentric locking technology

The ball bearing unit is a perfect solution for high-speed applications. It is equipped with contact seals, external flingers and a high quality lithium/calcium grease that allow the bearing to be lubricated for life.

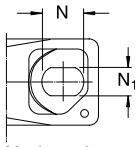




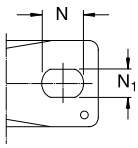
Metric version



Inch version (solid foot)

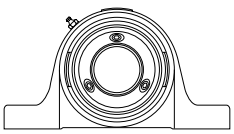


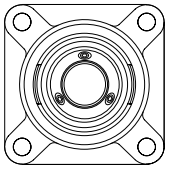
Metric version

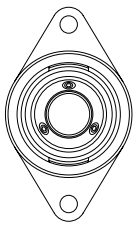


Inch version (solid foot)

Shaft diameter	Bearing unit Dimensions											Basic load ratings		Speed rating	Designation	Torque	Set screw
												dynamic	static			(set screws)	
d_a	A	B	H	H_1	H_2	J min	J max	L	N	N_1	s_1	C	C_0				
mm												kN		r/min	–	Nm	–
25	36	41	70	36.5	16	94	110	130	19.5	11.5	29	14	7,8	7 000	**SY 25 PF**	4,2	M5
30	40	45	82	42.9	17	108	127	152	23.5	14	31	19	11,2	6 300	**SY 30 PF**	4,2	M5
35	45	47	93	47.6	19	119	133	160	21	14	32	25	15,3	5 300	**SY 35 PF**	7,4	M6
40	48	51	99	49.2	19	125	146	175	24.5	14	34	30	19	4 800	**SY 40 PF**	7,4	M6
45	48	52	107	54	21	135	152	187	22.5	14	35	33	21,6	4 300	**SY 45 PF**	7,4	M6
50	54	54	114	57.2	22	149	165	203	26	18	36	35	23,2	4 000	**SY 50 PF**	7,4	M6
55	60	57	125	63.5	24	162	181	219	27.5	18	37	43	29	3 600	**SY 55 PF**	7,4	M6
60	60	59	137	69.9	26.5	179	202	240	29.5	18	38	52	36	3 400	**SY 60 PF**	7,4	M6
in												lbf		r/min	–	in.lbf	–
1	1 7/16	1 5/8	2 3/4	1 7/16	5/8	3 11/16	4 5/16	5 1/8	3/4	7/16	1 1/8	3 150	1 750	7 000	**SY 1 PF/AH**	37	M5
1 3/16	1 9/16	1 3/4	3 1/4	1 11/16	5/8	4 1/4	5	6	15/16	9/16	1 3/16	4 380	2 520	6 300	**SY 1.3/16 PF/AH**	37	M5
1 1/4	1 3/4	1 7/8	3 11/16	1 7/8	3/4	4 11/16	5 1/4	6 5/16	13/16	9/16	1 1/4	5 730	3 440	5 300	**SY 1.1/4 PF/AH**	37	M5
1 3/8	1 3/4	1 7/8	3 11/16	1 7/8	3/4	4 11/16	5 1/4	6 5/16	13/16	9/16	1 1/4	5 730	3 440	5 300	**SY 1.3/8 PF/AH**	66	M6
1 7/16	1 3/4	1 7/8	3 11/16	1 7/8	3/4	4 11/16	5 1/4	6 5/16	13/16	9/16	1 1/4	5 730	3 440	5 300	**SY 1.7/16 PF/AH**	66	M6
1 1/2	1 7/8	2 1/16	3 7/8	1 15/16	3/4	4 15/16	5 3/4	6 7/8	1	9/16	1 5/16	6 900	4 270	4 800	**SY 1.1/2 PF/AH**	66	M6
1 11/16	1 7/8	2	4 1/4	2 1/8	13/16	5 5/16	6	7 5/8	7/8	9/16	1 3/8	7 460	4 860	4 300	**SY 1.11/16 PF/AH**	66	M6
1 15/16	2 1/8	2 1/8	4 1/2	2 1/4	7/8	5 7/8	6 1/2	8	1	11/16	1 3/8	7 890	5 220	4 000	**SY 1.15/16 PF/AH**	66	M6
2 3/16	2 3/8	2 1/4	5	2 1/2	15/16	6 3/8	7 1/8	8 5/8	1 1/8	11/16	1 7/16	9 800	6 520	3 600	**SY 2.3/16 PF/AH**	66	M6
2 7/16	2 3/8	2 5/16	5 1/2	2 3/4	1	7 1/16	7 15/16	9 1/2	1 1/8	11/16	1 1/2	10 700	7 310	3 400	**SY 2.7/16 PF/AH**	66	M6
2 11/16	2 9/16	2 3/8	5 7/8	3	1 1/8	7 1/2	8 1/2	10 1/8	1 3/8	7/8	1 1/2	12 600	9 110	3 000	**SY 2.11/16 PF/AH**	66	M6
2 15/16	2 13/16	2 1/2	6 1/2	3 1/4	1 1/4	8	9	11	1 3/8	7/8	1 5/8	14 900	11 000	2 600	**SY 2.15/16 PF/AH**	66	M6





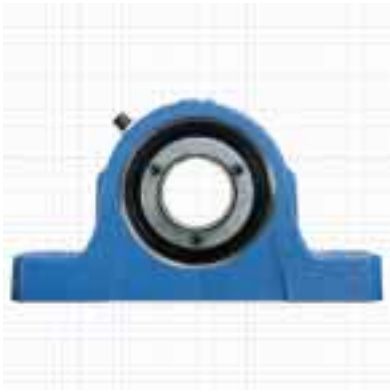


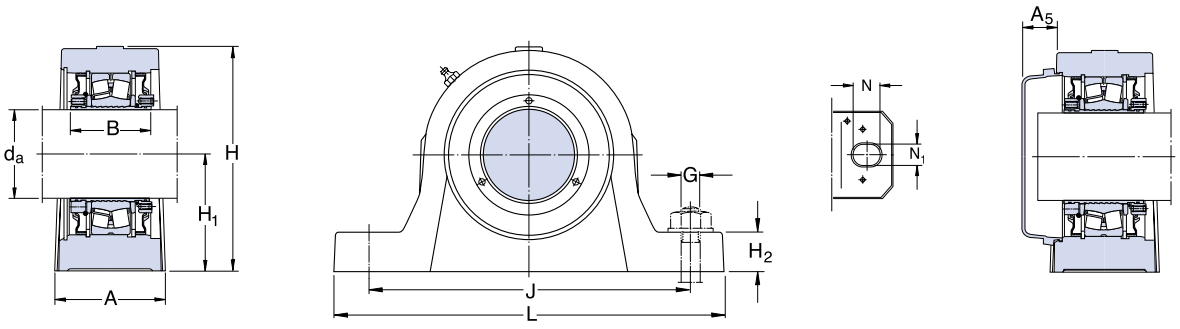
Different bearing housing styles
SKF ConCentra ball bearing units are available in a wide range of housing styles.

ConCentra Roller Bearing Unit

with true concentric locking technology

The roller bearing unit is intended for applications with a large radial load and a risk of shaft misalignment. SKF Explorer spherical roller bearings are built-in. Explorer quality enables you to reduce bearing dimensions without compromising bearing capacity and service life.



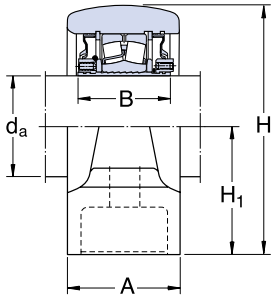


Shaft diameter	**Bearing unit Dimensions**										**Mass**	**Designations**[1]	
												Non-locating unit with	
d_a	A	B	H	H_1	H_2	J	L	N	N_1	G		double-lip seals	labyrinth seals
mm	mm										kg	–	
35	60	59,5	110	60	25	170	205	20	15	12	3,40	**SYT 35 L**	**SYT 35 LTS**
40	60	59,5	114	60	25	170	205	20	15	12	3,50	**SYT 40 L**	**SYT 40 LTS**
45	60	59,5	116	60	25	170	205	20	15	12	3,60	**SYT 45 L**	**SYT 45 LTS**
50	70	59,5	129	70	28	210	255	24	18	16	4,80	**SYT 50 L**	**SYT 50 LTS**
55	70	59,5	135	70	30	210	255	24	18	16	5,40	**SYT 55 L**	**SYT 55 LTS**
60	80	65,5	150	80	30	230	275	24	18	16	7,00	**SYT 60 L**	**SYT 60 LTS**
65	80	65,5	157	80	30	230	280	24	18	16	8,00	**SYT 65 L**	**SYT 65 LTS**
70	90	65,5	177	95	32	260	315	28	22	20	10,5	**SYT 70 L**	**SYT 70 LTS**
75	90	65,5	182	95	32	260	320	28	22	20	11,5	**SYT 75 L**	**SYT 75 LTS**

[1] Locating bearing units are identified by the suffix F instead of L, e.g. SYT 35 F or SYT 35 FTS

Unit	**Bearing**							**Speed ratings** for units with		**Grease quantity**	**Appropriate end cover**	
Basic designation	Basic designation	Basic load ratings dynamic C	static C_0	Calculation factors e	Y_1	Y_2	Y_0	double-lip seals	labyrinth seals	Relubrication	Designation	Protrusion A_5
–	–	kN		–				r/min		g	–	mm
SYT 35	22207	76,5	73,5	0,31	2,2	3,3	2,2	4 400	9 000	10	ECY 207	22
SYT 40	22208	96,5	90	0,28	2,4	3,6	2,5	4 000	8 000	10	ECY 208	23,5
SYT 45	22209	90	88	0,26	2,6	3,9	2,5	3 700	7 500	10	ECY 209	23
SYT 50	22210	96,5	100	0,24	2,8	4,2	2,8	3 500	7 000	10	ECY 210	29,5
SYT 55	22211	125	127	0,24	2,8	4,2	2,8	3 250	6 300	15	ECY 211	34
SYT 60	22212	156	166	0,24	2,8	4,2	2,8	3 000	5 600	15	ECY 212	35,5
SYT 65	22213	193	216	0,24	2,8	4,2	2,8	2 900	5 300	20	ECY 213	35,5
SYT 70	22214	208	228	0,22	3	4,6	2,8	2 650	5 000	20	ECY 214	38,5
SYT 75	22215	212	240	0,22	3	4,6	2,8	2 650	4 800	20	ECY 215	38,5

ConCentra Roller Bearing Unit

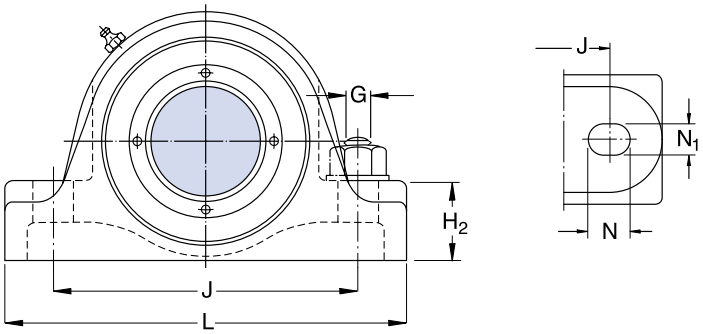


ConCentra roller bearing units SYR .. N for inch shafts
d_a **1 7/16 – 4** in

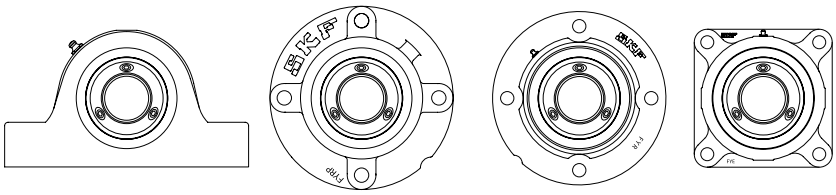
Shaft diameter	Bearing unit Dimensions										Mass	Designation[1] Non-locating unit with Tri-Gard seals
d_a	A	B	H	H_1	H_2	J	L	N	N_1	G		
in/mm	in/mm										lb/kg	–
1 7/16	2 1/16	2 11/32	3 7/8	1 7/8	1 3/16	5	6 7/8	15/16	5/8	1/2	7.00	**SYR 1.7/16 N**
36,512	52,4	59,5	98,4	47,6	30,2	127	174,6	23,8	15,9		3,20	
1 1/2	2 1/16	2 11/32	3 7/8	1 7/8	1 3/16	5	6 7/8	15/16	5/8	1/2	7.00	**SYR 1.1/2 N**
38,100	52,4	59,5	98,4	47,6	30,2	127	174,6	23,8	15,9		3,20	
1 11/16	2 1/16	2 11/32	4 1/4	2 1/8	1 5/16	5 1/2	7 3/8	1	5/8	1/2	8.00	**SYR 1.11/16 N**
42,862	52,4	59,5	108	54	33,3	139,7	187,3	25,4	15,9		3,60	
1 3/4	2 1/16	2 11/32	4 1/4	2 1/8	1 5/16	5 1/2	7 3/8	1	5/8	1/2	8.00	**SYR 1.3/4 N**
44,450	52,4	59,5	108	54	33,3	139,7	187,3	25,4	15,9		3,60	
1 15/16	2 1/16	2 11/32	4 9/16	2 1/4	1 3/8	6 1/4	8 3/8	1 1/16	3/4	5/8	9.20	**SYR 1.15/16 N**
49,212	52,4	59,5	115,9	57,2	34,9	158,8	212,7	27	19		4,15	
2	2 1/16	2 11/32	4 9/16	2 1/4	1 3/8	6 1/4	8 3/8	1 1/16	3/4	5/8	9.20	**SYR 2 N**
50,800	52,4	59,5	115,9	57,2	34,9	158,8	212,7	27	19		4,15	
2 3/16	2 5/16	2 11/32	5	2 1/2	1 5/8	6 3/4	8 7/8	1 1/16	3/4	5/8	12.0	**SYR 2.3/16 N**
55,562	58,7	59,5	127	63,5	41,3	171,5	225,4	27	19		5,45	
2 7/16	2 9/16	2 37/64	5 11/16	2 3/4	1 3/4	7 1/8	9 1/4	1 1/16	3/4	5/8	16.0	**SYR 2.7/16 N**
61,912	65,1	65,5	144,5	69,8	44,4	181	235	27	19		7,25	
2 1/2	2 9/16	2 37/64	5 11/16	2 3/4	1 3/4	7 1/8	9 1/4	1 1/16	3/4	5/8	16.0	**SYR 2.1/2 N**
63,500	65,1	65,5	144,5	69,8	44,4	181	235	27	19		7,25	
2 11/16	2 9/16	2 37/64	6 7/16	3 1/4	2 1/4	8 1/8	10 7/16	1 3/16	7/8	3/4	22.0	**SYR 2.11/16 N**
68,262	65,1	65,5	163,5	82,6	57,2	206,4	265,1	30,2	22,2		10,0	
2 3/4	2 9/16	2 37/64	6 7/16	3 1/4	2 1/4	8 1/8	10 7/16	1 3/16	7/8	3/4	22.0	**SYR 2.3/4 N**
69,850	65,1	65,5	163,5	82,6	57,2	206,4	265,1	30,2	22,2		10,0	
2 15/16	2 9/16	2 37/64	6 7/16	3 1/4	2 1/4	8 1/8	10 7/16	1 3/16	7/8	3/4	21.0	**SYR 2.15/16 N**
74,612	65,1	65,5	163,5	82,6	57,2	206,4	265,1	30,2	22,2		9,55	
3	2 9/16	2 37/64	6 7/16	3 1/4	2 1/4	8 1/8	10 7/16	1 3/16	7/8	3/4	21.0	**SYR 3 N**
76,200	65,1	65,5	163,5	82,6	57,2	206,4	265,1	30,2	22,2		9,55	
3 7/16	2 15/16	3 9/64	7 1/2	3 3/4	2 1/4	10	13	1 3/4	1	7/8	31.5	**SYR 3.7/16 N**
87,312	74,6	80	190,5	95,2	57,2	254	330,2	44,5	25,4		14,5	
3 1/2	2 15/16	3 9/64	7 1/2	3 3/4	2 1/4	10	13	1 3/4	1	7/8	31.5	**SYR 3.1/2 N**
88,900	74,6	80	190,5	95,2	57,2	254	330,2	44,5	25,4		14,5	
3 11/16	3 5/16	3 9/64	8 7/16	4 1/4	2 1/2	10 7/8	14 1/4	2	1 1/8	1	44.5	**SYR 3.11/16 N**
93,662	84,1	80	214,3	108	63,5	276,2	362	50,8	28,6		20,0	
3 15/16	3 15/16	3 9/64	8 7/16	4 1/4	2 1/2	10 7/8	14 1/4	2	1 1/8	1	43.5	**SYR 3.15/16 N**
100,012	84,1	80	214,3	108	63,5	276,2	362	50,8	28,6		19,5	
4	3 15/16	3 9/64	8 7/16	4 1/4	2 1/2	10 7/8	14 1/4	2	1 1/8	1	43.5	**SYR 4 N**
101,600	84,1	80	214,3	108	63,5	276,2	362	50,8	28,6		19,5	

With non-locating bearing units, the maximum possible axial displacement from the central position is 0,8 mm

[1] Locating bearing units are identified by the suffix H, e.g. SYR 1.7/16 NH. Bearing units with labyrinth seals are identified by the suffix -118, e.g. SYR 1.7/16 N-118 or SYR 1.7/16 NH-118



Unit Designation	**Bearing** Basic design-nation	Basic load ratings dynamic C	static C_0	Calculation factors e	Y_1	Y_2	Y_0	**Speed ratings** for units with Tri-Gard seals	labyrinth seals	**Grease quantity** Relubrication
–	–	lbf/kN		–				r/min		oz/g
SYR 1.7/16 N	22208	21 600 96,5	20 000 90	0,28	2,4	3,6	2,5	2 500	8 000	0,35 10
SYR 1.1/2 N	22208	21 600 96,5	20 000 90	0,28	2,4	3,6	2,5	2 500	8 000	0,35 10
SYR 1.11/16 N	22209	20 000 90	19 600 88	0,26	2,6	3,9	2,5	2 300	7 500	0,35 10
SYR 1.3/4 N	22209	20 000 90	19 600 88	0,26	2,6	3,9	2,5	2 300	7 500	0,35 10
SYR 1.15/16 N	22210	21 600 96,5	22 400 100	0,24	2,8	4,2	2,8	2 150	7 000	0,35 10
SYR 2 N	22210	21 600 96,5	22 400 100	0,24	2,8	4,2	2,8	2 150	7 000	0,35 10
SYR 2.3/16 N	22211	28 100 125	28 500 127	0,24	2,8	4,2	2,8	2 000	6 300	0,53 15
SYR 2.7/16 N	22213	43 000 193	48 000 216	0,24	2,8	4,2	2,8	1 800	5 300	0,70 20
SYR 2.1/2 N	22213	43 000 193	48 000 216	0,24	2,8	4,2	2,8	1 800	5 300	0,70 20
SYR 2.11/16 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0,70 20
SYR 2.3/4 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0,70 20
SYR 2.15/16 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0,70 20
SYR 3 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0,70 20
SYR 3.7/16 N	22218	73 500 325	85 000 375	0,24	2,8	4,2	2,8	1 400	3 800	1,25 35
SYR 3.1/2 N	22218	73 500 325	85 000 375	0,24	2,8	4,2	2,8	1 400	3 800	1,25 35
SYR 3.11/16 N	22220	95 000 425	110 000 490	0,24	2,8	4,2	2,8	1 250	3 400	1,60 45
SYR 3.15/16 N	22220	95 000 425	110 000 490	0,24	2,8	4,2	2,8	1 250	3 400	1,60 45
SYR 4 N	22220	95 000 425	110 000 490	0,24	2,8	4,2	2,8	1 250	3 400	1,60 45

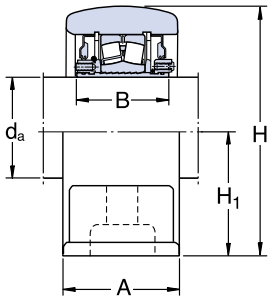


Different bearing housing styles
SKF ConCentra roller bearing units are available in a wide range of housing styles.

ConCentra Roller Bearing Unit

ConCentra roller bearing units SYE .. N and FSYE .. N for inch shafts

d_a **1 7/16 – 4** in

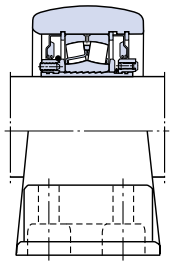


SYE

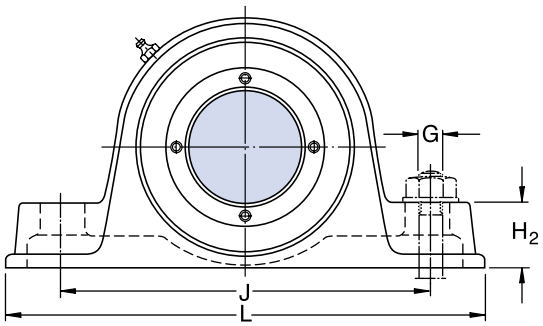
Shaft diameter	Bearing unit Dimensions											Mass	Designation[1] Non-locating unit with Tri-Gard seals
d_a	A	B	H	H_1	H_2	J	J_1	L	N	N_1	G		
in/mm	in/mm											lb/kg	–
1 7/16	2 1/8	2 11/32	3 7/8	1 7/8	1 1/8	5 3/4	–	7 3/8	3/4	5/8	1/2	8.00	**SYE 1.7/16 N**
36,512	54	59,5	98,4	47,6	28,6	146	–	187,3	19	15,9		3,60	
1 1/2	2 3/8	2 11/32	4 1/4	2 1/8	1 1/4	6 1/4	–	7 7/8	3/4	5/8	1/2	8.00	**SYE 1.1/2 N**
38,100	60,3	59,5	108	54	31,8	158,8	–	200	19	15,9		3,60	
1 11/16	2 3/8	2 11/32	4 1/4	2 1/8	1 1/4	6 1/4	–	7 7/8	3/4	5/8	1/2	9.30	**SYE 1.11/16 N**
42,862	60,3	59,5	108	54	31,8	158,8	–	200	19	15,9		4,20	
1 3/4	2 1/2	2 11/32	4 1/2	2 1/2	1 5/16	7	–	8 7/8	7/8	3/4	5/8	9.30	**SYE 1.3/4 N**
44,450	63,5	59,5	114,3	57,2	33,3	177,8	–	225,4	22,2	19		4,20	
1 15/16	2 1/2	2 11/32	4 1/2	2 1/2	1 5/16	7	–	8 7/8	7/8	3/4	5/8	10.5	**SYE 1.15/16 N**
49,212	63,5	59,5	114,3	57,2	33,3	177,8	–	225,4	22,2	19		4,75	
2	2 1/2	2 11/32	4 1/2	2 1/4	1 5/16	7	–	8 7/8	7/8	3/4	5/8	10.5	**SYE 2 N**
50,800	63,5	59,5	114,3	57,2	33,3	177,8	–	225,4	22,2	19		4,75	
2 3/16	2 5/8	2 11/32	5	2 1/2	1 1/2	7 3/4	–	9 5/8	7/8	3/4	5/8	13.5	**SYE 2.3/16 N**
55,562	66,7	59,5	127	63,5	38,1	196,8	–	244,4	22,2	19		6,10	
2 7/16	2 7/8	2 37/64	5 11/16	2 3/4	1 5/8	8 1/2	–	10 1/2	1	3/4	5/8	18.5	**SYE 2.7/16 N**
61,912	73	65,5	144,5	69,8	41,3	216	–	266,7	25,4	19		8,40	
	3 1/2	2 37/64	5 11/16	2 3/4	1 5/8	8 1/2	1 7/8	10 1/2	1	3/4	5/8	19.0	**FSYE 2.7/16 N**
	88,9	65,5	144,5	69,8	41,3	216	47,6	266,7	25,4	19		8,62	
2 1/2	2 7/8	2 37/64	5 11/16	2 3/4	1 5/8	8 1/2	–	10 1/2	1	3/4	5/8	18.5	**SYE 2.1/2 N**
63,500	73	65,5	144,5	69,8	41,3	216	–	266,7	25,4	19		8,40	
	3 1/2	2 37/64	5 11/16	2 3/4	1 5/8	8 1/2	1 7/8	10 1/2	1	3/4	5/8	19.0	**FSYE 2.1/2 N**
	88,9	65,5	144,5	69,8	41,3	216	47,6	266,7	25,4	19		8,60	
2 11/16	3	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	–	12	1 1/8	7/8	3/4	25.5	**SYE 2.11/16 N**
68,262	76,2	65,5	160,3	79,4	47,6	241,3	–	304,8	28,6	22,2		11,6	
	4	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	2 1/8	12	1 1/8	3/4	5/8	25.5	**FSYE 2.11/16 N**
	101,6	65,5	160,3	79,4	47,6	241,3	54	304,8	28,6	19		11,6	
2 3/4	3	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	–	12	1 1/8	7/8	3/4	25.5	**SYE 2.3/4 N**
69,850	76,2	65,5	160,3	79,4	47,6	241,3	–	304,8	28,6	22,2		11,6	
	4	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	2 1/8	12	1 1/8	3/4	5/8	25.5	**FSYE 2.3/4 N**
	101,6	65,5	160,3	79,4	47,6	241,3	54	304,8	28,6	19		11,6	
2 15/16	3	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	–	12	1 1/8	7/8	3/4	24.0	**SYE 2.15/16 N**
74,612	76,2	65,5	160,3	79,4	47,6	241,3	–	304,8	28,6	22,2		10,9	
	4	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	2 1/8	12	1 1/8	3/4	5/8	24.0	**FSYE 2.15/16 N**
	101,6	65,5	160,3	79,4	47,6	241,3	54	304,8	28,6	19		10,9	
3	3	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	–	12	1 1/8	7/8	3/4	23.5	**SYE 3 N**
76,200	76,2	65,5	160,3	79,4	47,6	241,3	–	304,8	28,6	22,2		10,7	
	4	2 37/64	6 5/16	3 1/8	1 7/8	9 1/2	2 1/8	12	1 1/8	3/4	5/8	24.0	**FSYE 3 N**
	101,6	65,5	160,3	79,4	47,6	241,3	54	304,8	28,6	19		10,9	
3 7/16	3 5/8	3 9/64	7 1/2	3 3/4	2 1/4	11	–	14	1 5/16	1	7/8	35.5	**SYE 3.7/16 N**
87,312	92,1	80	190,5	95,2	57,2	279,4	–	355,6	33,3	25,4		16,1	
	4 1/2	3 9/64	7 1/2	3 3/4	2 1/4	11	2 3/8	14	1 5/16	7/8	3/4	36.5	**FSYE 3.7/16 N**
	114,3	80	190,5	95,2	57,2	279,4	60,3	355,6	33,3	22,2		16,6	
3 1/2	3 5/8	3 9/64	7 1/2	3 3/4	2 1/4	11	–	14	1 5/16	1	7/8	35.5	**SYE 3.1/2 N**
88,900	92,1	80	190,5	95,2	57,2	279,4	–	355,6	33,3	25,4		16,1	
	4 1/2	3 9/64	7 1/2	3 3/4	2 1/4	11	2 3/8	14	1 5/16	7/8	3/4	36.5	**FSYE 3.1/2 N**
	114,3	80	190,5	95,2	57,2	279,4	60,3	355,6	33,3	22,2		16,6	
3 11/16	4 1/2	3 9/64	8 9/16	4 1/4	2 7/16	12 1/2	2 1/4	15 1/4	1 3/8	7/8	3/4	50.5	**FSYE 3.11/16 N**
93,662	114,3	80	217,5	108	61,9	317,5	57,2	387,4	34,9	22,2		22,9	
3 15/16	4 1/2	3 9/64	8 9/16	4 1/4	2 7/16	12 1/2	2 1/4	15 1/4	1 3/8	7/8	3/4	49.5	**FSYE 3.15/16 N**
100,012	114,3	80	217,5	108	61,9	317,5	57,2	387,4	34,9	22,2		22,5	
4	4 1/2	3 9/64	8 9/16	4 1/4	2 7/16	12 1/2	2 1/4	15 1/4	1 3/8	7/8	3/4	49.5	**FSYE 4 N**
101,600	114,3	80	217,5	108	61,9	317,5	57,2	387,4	34,9	22,2		22,5	

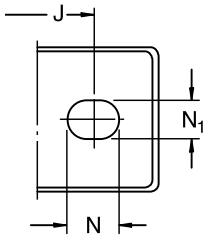
With non-locating bearing units, the maximum possible axial displacement from the central position is 0,8 mm

[1] Locating bearing units are identified by the suffix H, e.g. SYE 1.7/16 NH. Bearing units with labyrinth seals are identified by the suffix -118, e.g. SYE 1.7/16 N-118 or FSYE 2.7/16 NH-118

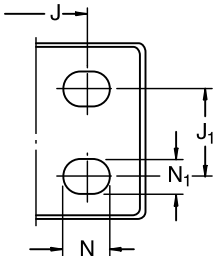


FSYE





SYE



FSYE

Unit Designation	**Bearing** Basic design-nation	Basic load ratings dynamic C	static C_0	Calculation factors e	Y_1	Y_2	Y_0	**Speed ratings** for units with Tri-Gard seals	labyrinth seals	**Grease quantity** Relubrication
–	–	lbf/kN		–				r/min		oz/g
SYE 1.7/16 N	22208	21 600 96,5	20 000 90	0,28	2,4	3,6	2,5	2 500	8 000	0.35 10
SYE 1.1/2 N	22208	21 600 96,5	20 000 90	0,28	2,4	3,6	2,5	2 500	8 000	0.35 10
SYE 1.11/16 N	22209	20 000 90	19 600 88	0,26	2,6	3,9	2,5	2 300	7 500	0.35 10
SYE 1.3/4 N	22209	20 000 90	19 600 88	0,26	2,6	3,9	2,5	2 300	7 500	0.35 10
SYE 1.15/16 N	22210	21 600 96,5	22 400 100	0,24	2,8	4,2	2,8	2 150	7 000	0.35 10
SYE 2 N	22210	21 600 96,5	22 400 100	0,24	2,8	4,2	2,8	2 150	7 000	0.35 10
SYE 2.3/16 N	22211	28 100 125	28 500 127	0,24	2,8	4,2	2,8	2 000	6 300	0.53 15
SYE 2.7/16 N	22213	43 000 193	48 000 216	0,24	2,8	4,2	2,8	1 800	5 300	0.70 20
FSYE 2.7/16 N	22213	43 000 193	48 000 216	0,24	2,8	4,2	2,8	1 800	5 300	0.70 20
SYE 2.1/2 N	22213	43 000 193	48 000 216	0,24	2,8	4,2	2,8	1 800	5 300	0.70 20
FSYE 2.1/2 N	22213	43 000 193	48 000 216	0,24	2,8	4,2	2,8	1 800	5 300	0.70 20
SYE 2.11/16 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
FSYE 2.11/16 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
SYE 2.3/4 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
FSYE 2.3/4 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
SYE 2.15/16 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
FSYE 2.15/16 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
SYE 3 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
FSYE 3 N	22215	47 500 212	54 000 240	0,22	3	4,6	2,8	1 600	4 800	0.70 20
SYE 3.7/16 N	22218	73 500 325	85 000 375	0,24	2,8	4,2	2,8	1 400	3 800	1.25 35
FSYE 3.7/16 N	22218	73 500 325	85 000 375	0,24	2,8	4,2	2,8	1 400	3 800	1.25 35
SYE 3.1/2 N	22218	73 500 325	85 000 375	0,24	2,8	4,2	2,8	1 400	3 800	1.25 35
FSYE 3.1/2 N	22218	73 500 325	85 000 375	0,24	2,8	4,2	2,8	1 400	3 800	1.25 35
FSYE 3.11/16 N	22220	95 000 425	110 000 490	0,24	2,8	4,2	2,8	1 250	3 400	1.60 45
FSYE 3.15/16 N	22220	95 000 425	110 000 490	0,24	2,8	4,2	2,8	1 250	3 400	1.60 45
FSYE 4 N	22220	95 000 425	110 000 490	0,24	2,8	4,2	2,8	1 250	3 400	1.60 45

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