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Y-bearing plummer block units

Designs

SKF Y-bearing plummer (pillow) block units are available as standard in a wide variety of designs. The standard assortment includes plummer block units with housings made of:

- composite material (→ **fig. 1**) referred to as Y-TECH plummer block units
- grey cast iron (→ **fig. 2**)
- pressed sheet steel (→ **fig. 3**)

They are located on the shaft via the inner ring of the insert bearing with either:

- grub (set) screws
- an eccentric locking collar
- an adapter sleeve

The Y-bearing can be sealed with either:

- the standard integral seal
- the standard integral seal and an additional flinger
- the highly efficient multiple seal

Additional information about Y-bearings can be found in the section *Y-bearings*, starting on **page 79**.

Y-bearing plummer block units available from stock are listed in the product tables. Other units can be composed by ordering the parts separately. The table on **pages 114** and **115** shows the wide variety of combinations of Y-bearings and Y-bearing housings.

Fig. 1

Fig. 2

Fig. 3

Y-TECH plummer block units

Y-TECH plummer block units have housings made of composite material. They were developed for bearing arrangements that must operate reliably in difficult environments for extended periods without maintenance.

Y-TECH plummer block units in the SYK series are fitted with Y-bearings in the YAR 2-2F or YAR 2-2RF series and are attached to the shaft with grub screws (→ **fig. 4**). These units are part of the standard SKF product range.

For additional information about Y-TECH plummer block units for the food industry, refer to **page 274**.

Fig. 4

Y-bearing plummer block units with a cast housing

Y-bearing plummer block units with a grey cast iron housing can be relubricated through a grease fitting in the housing. This makes them especially suitable for bearing arrangements that operate under any of the following conditions:

- high levels of contamination
- high speeds
- high temperatures
- relatively heavy loads

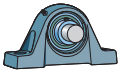
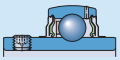
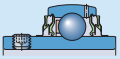
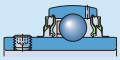
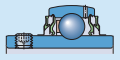
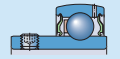
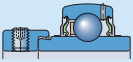
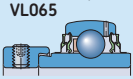
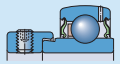
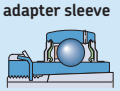
Four different housing designs are available:

- SY(J) series with two oblong holes for the attachment bolts in the base of the housing (→ **fig. 5**)
- SYH series, which is similar to the SY series, but with a lower centre height
- SYM series, which is similar to the SY series, but accommodates a larger bearing for a given shaft size, resulting in a greater load carrying capacity
- SYF(J) series with a shortened base that contains two threaded holes in the support base (→ **fig. 6**)

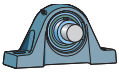
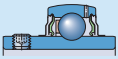
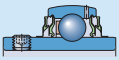
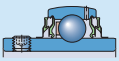
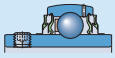
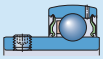
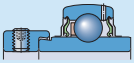
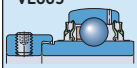
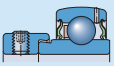
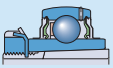
Fig. 5

Fig. 6

Y-bearing plummer block units

Y-bearing unit	Y-bearing housings					
						
Y-bearings	**SYK 5(00)**	**SY 5(00)**	**SYJ 5(00)**	**SYH 5(00)**	**SYM 5(00)**	**SYF 5(00)**
YAR 2-2F 	**SYK .. TF** 20–40 mm	**SY .. TF** 12–65 mm 1/2–2 15/16 in.	**SYJ .. TF** 20–100 mm 3/4–2 1/2 in.	**SYH .. TF** 1/2–2 7/16 in.	**SYM .. TF** 1 7/16–3 in.	**SYF .. TF** 20–50 mm 3/4–1 3/4 in.[1]
YAR 2-2RF 	**SYK .. TR** 20–40 mm	**SY .. TR** 20–60 mm 3/4–2 1/2 in.[1]	20–65 mm[1] 3/4–2 1/2 in.[1]	–	–	20–50 mm[1] 3/4–1 3/4 in.[1]
YAR 2-2RF/HV 	20–40 mm[1] 3/4–1 1/2 in.[1]	20–50 mm 3/4–1 15/16 in.	20–50 mm 3/4–1 15/16 in.	–	–	20–50 mm 3/4–1 15/16 in.
YAR 2-2RF/ VE495 	20–40 mm[1]	20–50 mm	20–50 mm	–	–	20–50 mm
YAT 2 	20–40 mm[1]	17–50 mm[1]	20–50 mm[1]	–	–	20–50 mm[1]
YEL 2-2F 	20–40 mm[1]	**SY .. WF** 20–60 mm 1 7/16–1 15/16 in.	20–60 mm[1]	**SYH .. WF** 3/4–2 7/16 in.	–	20–50 mm[1]
YEL 2-2RF/ VL065 	20–40 mm[1]	20–40 mm[1]	20–40 mm[1]	–	–	20–40 mm[1]
YET 2 	20–40 mm[1]	**SY .. FM** 15–60 mm 3/4–1 1/2 in.[1]	20–60 mm[1] 3/4–1 1/2 in.[1]	**SYH .. FM** 1–2 in.	–	**SYF .. FM** 20–50 mm 3/4–1 1/2 in.[1]
YSA 2-2FK on adapter sleeve 	20– 35 mm[1] 3/4–1 1/4 in.[1]	20–60 mm[1] 3/4–2 3/8 in.[1]	**SYJ .. KF** 20–60 mm 3/4–2 3/8 in.	–	–	20–45 mm[1] 3/4–1 3/4 in.[1]
17262(00) 	20–40 mm[1]	17–60 mm[1]	20–60 mm[1]	–	–	20–50 mm[1]

[1] Parts must be ordered separately.

Y-bearing unit 	Y-bearing housings	
		
Y-bearings	**SYFJ 5(00)**	**P 40 – P 85**
YAR 2-2F 	**SYFJ .. TF** 20–50 mm 3/4–1 3/4 in.[1]	12–45 mm[1] 1/2–1 3/4 in.[1]
YAR 2-2RF 	20–50 mm[1] 3/4–1 3/4 in.[1]	12–45 mm[1] 3/4–1 3/4 in.[1]
YAR 2-2RF/HV 	20–50 mm 3/4–1 15/16 in.	20–40 mm[1] 3/4–1 1/2 in.[1]
YAR 2-2RF/ VE495 	20–50 mm	20–40 mm[1]
YAT 2 	20–50 mm[1]	17–45 mm[1] 5/8–1 3/4 in.[1]
YEL 2-2F 	20–50 mm[1]	12–45 mm[1] 1/2–1 3/4 in.[1]
YEL 2-2RF/ VL065 	20–40 mm[1]	20–40 mm[1]
YET 2 	**SYFJ .. FM** 20–50 mm 3/4–1 1/2 in.[1]	15–45 mm[1] 1/2–1 3/4 in.[1]
YSA 2-2FK on adapter sleeve 	12–45 mm[1] 3/4–1 3/4 in.[1]	20–40 mm[1] 3/4–1 1/2 in.[1]
17262(00) 	20–50 mm[1]	17–45 mm[1]

[1] Parts must be ordered separately.

Y-bearing plummer block units with a pressed steel housing

Y-bearing plummer block units (→ **fig. 7**) with a pressed steel housing are designed for simple applications with limited loads and speeds. The two-part housing, which has no provision for relubrication, is ordered separately from the insert bearing. The individual items that make up a Y-bearing unit are:

- the two-part housing
- the Y-bearing
- the rubber seating ring, if needed

The advantage of ordering individual components is that a large number of combinations are possible.

Rubber seating rings made of acrylonitrile-butadiene rubber in the RIS 2 series (→ **fig. 8**) are available for these Y-bearing plummer blocks and are meant to reduce running noise and dampen vibration. The rubber seating rings also enable the bearings to be displaced slightly in their housings, for example, to accommodate shaft elongation.

Y-bearing units with a rubber seating ring are also listed in the product tables. Detailed information about rubber seating rings can be found in the section *Design of Y-bearing arrangements* on **pages 45** and **46**.

Fig. 7

Fig. 8

Data – general

Dimensions

The boundary dimensions of most Y-bearing plummer block housings are in accordance with the following standards:

- Housings in the SY 5(00) M series are in accordance with ISO 3228:1993.
- Housings in the SY 5(00) U series are in accordance with ISO 3228:1993, except the centre height H_1, which deviates for several housing sizes.
- Housings in the SYH series are in accordance with ISO 3228:1993, except the centre height H_1, which is lower than the standard.
- Housings in the SYJ series are in accordance with JIS B 1559-1995.
- Housings in the P series are in accordance with ISO 3228:1993, except the centre height H_1, which deviates slightly.

Y-bearing plummer block housings in the SYF, SYFJ and SYM series have not been standardized either nationally or internationally, but are common in the marketplace.

Tolerances

The tolerance for the shaft centre height H_1 (→ **fig. 9**) is

- ±0,25 mm for plummer block units with a bearing bore diameter ≤ 40 mm, except for units in the SYK series, where the tolerance is +/– 0,31 mm
- ±0,30 mm for the larger plummer block units.

For Y-bearing plummer block units with composite or cast housings, the outside diameter of the bearing is matched to the diameter of the housing bore so that the outer ring is prevented from turning in its seat, but still able to compensate for misalignment.

Additional information about tolerances for the inner ring bore are listed in the section *Y-bearings* on **page 89**.

Radial internal clearance

The Y-bearing used in a Y-bearing plummer block unit has the same radial internal clearance as a similarly sized individual Y-bearing.

Additional information about the radial internal clearance can be found in the section *Y-bearings* on **page 90**.

Materials

Composite housings

Y-housings in the SYK series are made of injection moulded glass fibre reinforced polyamide 6. A steel coil embedded in the housing adds greater stability to the form of the housing, even if operating temperatures are elevated.

The housing bolt holes are reinforced with zinc-plated sheet steel inserts. The standard housing colour is black.

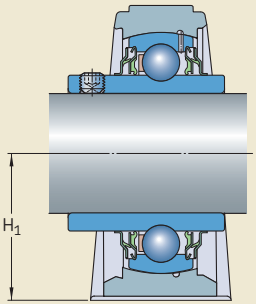
Cast housings

Housings in the SY(J), SYH, SYM and SYF(J) series are manufactured from grey cast iron EN-GJL HB195 in accordance with EN 1561:1997.

Pressed steel housings

Pressed steel housings in the P series are made from cold-rolled sheet steel and are zinc-coated for corrosion protection.

Fig. 9



Load carrying ability of the housings

Housings made of composite material or grey cast iron are able to withstand the same dynamic and static loads as the Y-bearings they incorporate. These Y-bearing units can also be used in applications where shock loads or variable axial loads occur.

If SKF Y-bearing units are to be used in an application where health, safety, or the environment is at risk, contact the SKF application engineering service during the design phase.

Pressed steel housings have a lower load carrying capacity than their insert bearings. Permissible radial loads are specified in the product tables. The axial load should not exceed 20% of the permissible radial load.

If the bearing arrangement will be subjected to shock loads or variable axial loads, Y-bearing units with a cast or Y-TECH housing should always be used.

End covers

To protect the shaft ends and avoid contact to rotating shaft ends, end covers are available for composite and cast Y-bearing plummer block units (→ **fig. 10**).

In the product tables, end covers in the ECY 2 series are shown together with the appropriate bearing unit. The designation of the end cover is listed together with the distance that the end cover protrudes from the housing.

For additional information about end covers, refer to the section *Design of Y-bearing arrangements* on **page 47**.

Attaching to a support surface

Plummer block units have two bolt holes in the housing base through which they can be attached to their support surface with threaded fasteners. The bolt holes vary for different housings. Housings made of:

- composite material have oblong bolt holes, reinforced with zinc-coated sheet steel or stainless steel inserts
- grey cast iron – SY(J), SYH and SYM series – have cast oblong bolt holes
- grey cast iron – SYF and SYFJ series – have threaded holes in the support base
- pressed steel have round bolt holes

If the loads acting on a housing are between 55° and 120° (→ **fig. 11**), Y-TECH bearing units and SY(J), SYH and SYM plummer block units should be doweled to the support surface or stops should be provided in the direction of the load.

Recommendations for the position and size of the dowel pin holes for SY, SYJ and SYH series housings are provided in **table 1**.

Grease fills

With the exception of SKF Y-bearing units for the food industry, all standard SKF Y-bearing plummer block units are filled with a high-quality, long-lasting grease containing a lithium-calcium thickener that has a consistency of 2 on the NLGI scale.

For additional information about lubricants and lubrication, refer to the section *Lubrication and maintenance*, starting on **page 48**.

Fig. 10

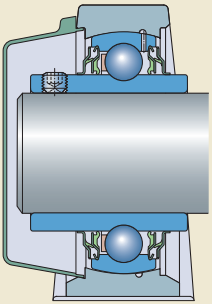
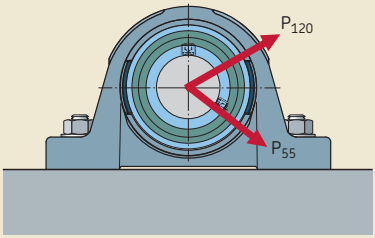


Fig. 11



Mounting

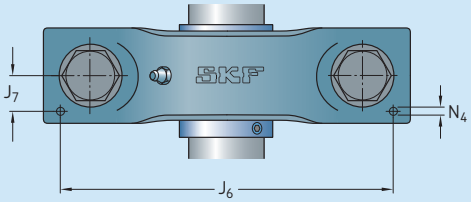
The procedure for mounting a Y-bearing plummer block unit depends on:

- the design of the housing
- the method used to attach the unit to the shaft

These methods are described in detail in the section *Mounting instructions*, starting on **page 52**.

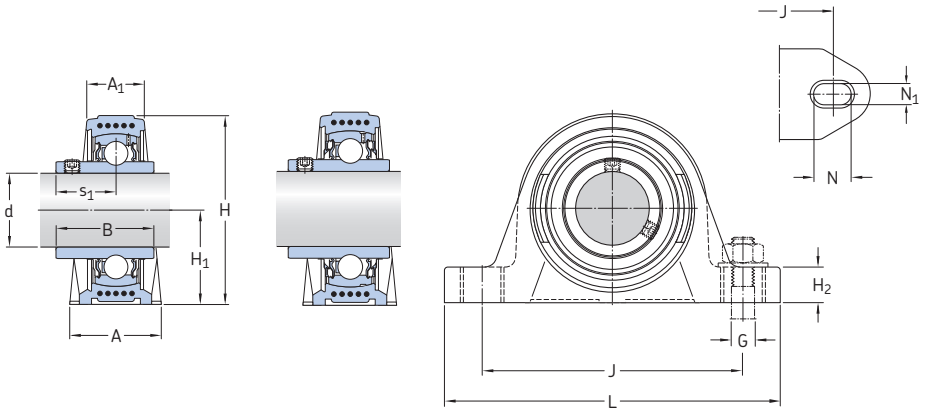
Table 1

Position and size of dowel pin holes for Y-bearing plummer block housings made of grey cast iron



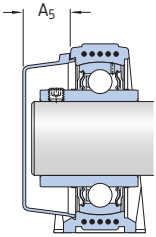
Housing size	Dimensions for housings in the SYJ series			SY, SYH series		
	J_6	J_7	N_4	J_6	J_7	N_4
–	mm					
503	–	–	–	118	11,5	2
504	118	12,5	2	118	11,5	2
505	130	14	2	120	13	2
506	155	15	2	140	14	2
507	153	16	4	146	15,5	4
508	170	17,5	4	161	17	4
509	174	18	4	173	17	4
510	190	21	5	187	19	5
511	201	21	5	201	21	5
512	223	23,5	5	222	21	5
513	241	23	5	238	22,5	5
514	246	26	6	240	22,5	6
515	255	27	6	–	–	–
516	270	28	6	285	29	6
518	303	32	8	–	–	–
520	352	33,5	8	–	–	–

Y-TECH plummer block units with grub screws, metric shafts
d **20 – 40** mm



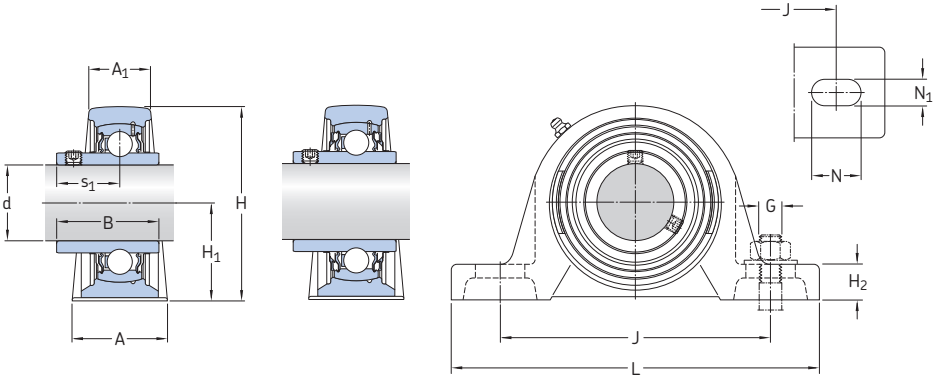
TF TR

Dimensions													Basic load ratings		Fatigue load limit	Limiting speed	Designation
													dynamic	static		with shaft tolerance	Bearing unit
d	A	A_1	B	H	H_1	H_2	J	L	N	N_1	G	s_1	C	C_0	P_u	h6	
mm													kN		kN	r/min	–
20	32	21	31	64	33,3	16	96	126	17,5	12	10	18,3	12,7	6,55	0,28	8 500	**SYK 20 TF**
	32	21	31	64	33,3	16	96	126	17,5	12	10	18,3	12,7	6,55	0,28	5 000	**SYK 20 TR**
25	32	22	34,1	70,5	36,5	16	105	134	17,5	12	10	19,8	14	7,8	0,335	7 000	**SYK 25 TF**
	32	22	34,1	70,5	36,5	16	105	134	17,5	12	10	19,8	14	7,8	0,335	4 300	**SYK 25 TR**
30	40	25	38,1	82	42,9	19	121	159	21,5	14,5	12	22,2	19,5	11,2	0,475	6 300	**SYK 30 TF**
	40	25	38,1	82	42,9	19	121	159	21,5	14,5	12	22,2	19,5	11,2	0,475	3 800	**SYK 30 TR**
35	45	27	42,9	93	47,6	19	126	164	21,5	14,5	12	25,4	25,5	15,3	0,655	5 300	**SYK 35 TF**
	45	27	42,9	93	47,6	19	126	164	21,5	14,5	12	25,4	25,5	15,3	0,655	3 200	**SYK 35 TR**
40	48	30	49,2	99	49,2	19	136	176	21,5	14,5	12	30,2	30,7	19	0,8	4 800	**SYK 40 TF**
	48	30	49,2	99	49,2	19	136	176	21,5	14,5	12	30,2	30,7	19	0,8	2 800	**SYK 40 TR**



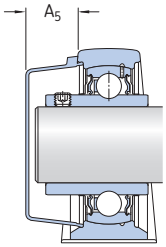
Designations			**Mass**	**Appropriate end cover**	
Bearing unit	Separate components		Bearing unit	Designation	Dimension
	Housing	Bearing			A_5
–			kg	–	mm
SYK 20 TF	SYK 504	YAR 204-2F	0,24	ECY 204	18,5
SYK 20 TR	SYK 504	YAR 204-2RF	0,24	ECY 204	18,5
SYK 25 TF	SYK 505	YAR 205-2F	0,29	ECY 205	18
SYK 25 TR	SYK 505	YAR 205-2RF	0,29	ECY 205	18
SYK 30 TF	SYK 506	YAR 206-2F	0,49	ECY 206	20
SYK 30 TR	SYK 506	YAR 206-2RF	0,49	ECY 206	20
SYK 35 TF	SYK 507	YAR 207-2F	0,66	ECY 207	22
SYK 35 TR	SYK 507	YAR 207-2RF	0,66	ECY 207	22
SYK 40 TF	SYK 508	YAR 208-2F	0,86	ECY 208	23,5
SYK 40 TR	SYK 508	YAR 208-2RF	0,86	ECY 208	23,5

Y-bearing plummer block units with a cast housing and grub screws, metric shafts
d **12 – 60** mm



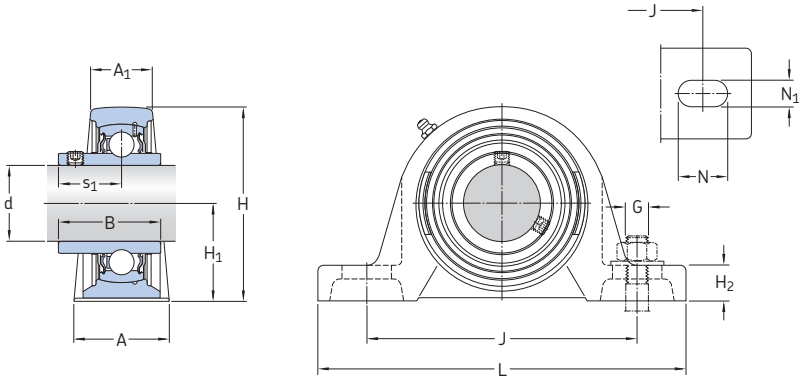
TF TR

Dimensions													Basic load ratings		Fatigue load limit	Limiting speed	Designation
													dynamic	static		with shaft tolerance	Bearing unit
d	A	A_1	B	H	H_1	H_2	J	L	N	N_1	G	s_1	C	C_0	P_u	h6	
mm													kN		kN	r/min	–
12	32	18	27,4	57	30,2	14	97	127	20,5	11,5	10	15,9	9,56	4,75	0,2	9 500	**SY 12 TF**
15	32	18	27,4	57	30,2	14	97	127	20,5	11,5	10	15,9	9,56	4,75	0,2	9 500	**SY 15 TF**
17	32	18	27,4	57	30,2	14	97	127	20,5	11,5	10	15,9	9,56	4,75	0,2	9 500	**SY 17 TF**
20	32	21	31	65	33,3	14	97	127	20,5	11,5	10	18,3	12,7	6,55	0,28	8 500	**SY 20 TF**
	34	23	31	65	33,3	14	97	127	20,7	13	10	18,3	12,7	6,55	0,28	8 500	**SYJ 20 TF**
	32	21	31	65	33,3	14	97	127	20,5	11,5	10	18,3	12,7	6,55	0,28	5 000	**SY 20 TR**
25	36	22	34,1	70,5	36,5	16	102	130	19,5	11,5	10	19,8	14	7,8	0,335	7 000	**SY 25 TF**
	38	24	34,1	70,5	36,5	16	102,5	140	21,5	13	10	19,8	14	7,8	0,335	7 000	**SYJ 25 TF**
	36	22	34,1	70,5	36,5	16	102	130	19,5	11,5	10	19,8	14	7,8	0,335	4 300	**SY 25 TR**
30	40	25	38,1	82,5	42,9	17	117,5	152	23,5	14	12	22,2	19,5	11,2	0,475	6 300	**SY 30 TF**
	42	27	38,1	82,5	42,9	16	118	165	24	17	14	22,2	19,5	11,2	0,475	6 300	**SYJ 30 TF**
	40	25	38,1	82,5	42,9	17	117,5	152	23,5	14	12	22,2	19,5	11,2	0,475	3 800	**SY 30 TR**
35	45	27	42,9	93	47,6	19	126	160	21	14	12	25,4	25,5	15,3	0,655	5 300	**SY 35 TF**
	46	28	42,9	93	47,6	17	129	167	24	17	14	25,4	25,5	15,3	0,655	5 300	**SYJ 35 TF**
	45	27	42,9	93	47,6	19	126	160	21	14	12	25,4	25,5	15,3	0,655	3 200	**SY 35 TR**
40	48	30	49,2	99	49,2	19	135,5	175	24,5	14	12	30,2	30,7	19	0,8	4 800	**SY 40 TF**
	49	31	49,2	99	49,2	18	136,5	184	25,5	17	14	30,2	30,7	19	0,8	4 800	**SYJ 40 TF**
	48	30	49,2	99	49,2	19	135,5	175	24,5	14	12	30,2	30,7	19	0,8	2 800	**SY 40 TR**
45	48	32	49,2	107,5	54	21	143,5	187	22,5	14	12	30,2	33,2	21,6	0,915	4 300	**SY 45 TF**
	52	36	49,2	107,5	54	20	143,5	190	23,5	17	14	30,2	33,2	21,6	0,915	4 300	**SYJ 45 TF**
	48	32	49,2	107,5	54	21	143,5	187	22,5	14	12	30,2	33,2	21,6	0,915	2 400	**SY 45 TR**
50	54	34	51,6	114,5	57,2	22	157	203	26	18	16	32,6	35,1	23,2	0,98	4 000	**SY 50 TF**
	58	38	51,6	114,5	57,2	22	157,5	206	26,5	20	16	32,6	35,1	23,2	0,98	4 000	**SYJ 50 TF**
	54	34	51,6	114,5	57,2	22	157	203	26	18	16	32,6	35,1	23,2	0,98	2 200	**SY 50 TR**
55	60	40	55,6	126	63,5	24	171,5	219	27,5	18	16	33,4	43,6	29	1,25	3 600	**SY 55 TF**
	60	40	55,6	126	63,5	24	171,5	219	27,5	20	16	33,4	43,6	29	1,25	3 600	**SYJ 55 TF**
	60	40	55,6	126	63,5	24	171,5	219	27,5	18	16	33,4	43,6	29	1,25	1 900	**SY 55 TR**
60	60	42	65,1	138	69,8	26,5	190,5	240	29,5	18	16	39,7	52,7	36	1,53	3 400	**SY 60 TF**
	65	47	65,1	138	69,8	26,5	188,5	241	29,5	20	16	39,7	52,7	36	1,53	3 400	**SYJ 60 TF**
	60	42	65,1	138	69,8	26,5	190,5	240	29,5	18	16	39,7	52,7	36	1,53	1 800	**SY 60 TR**



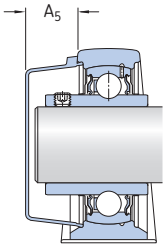
Designations			Mass	Appropriate end cover	
Bearing unit	Separate components		Bearing unit	Designation	Dimension
	Housing	Bearing			A_5
–			kg	–	mm
SY 12 TF	SY 503 M	YAR 203/12-2F	0,52	–	–
SY 15 TF	SY 503 M	YAR 203/15-2F	0,51	–	–
SY 17 TF	SY 503 M	YAR 203-2F	0,50	–	–
SY 20 TF	SY 504 M	YAR 204-2F	0,57	ECY 204	18,5
SYJ 20 TF	SYJ 504	YAR 204-2F	0,55	–	–
SY 20 TR	SY 504 M	YAR 204-2RF	0,57	ECY 204	18,5
SY 25 TF	SY 505 M	YAR 205-2F	0,72	ECY 205	18
SYJ 25 TF	SYJ 505	YAR 205-2F	0,73	–	–
SY 25 TR	SY 505 M	YAR 205-2RF	0,72	ECY 205	18
SY 30 TF	SY 506 M	YAR 206-2F	1,10	ECY 206	20
SYJ 30 TF	SYJ 506	YAR 206-2F	1,05	–	–
SY 30 TR	SY 506 M	YAR 206-2RF	1,10	ECY 206	20
SY 35 TF	SY 507 M	YAR 207-2F	1,45	ECY 207	22
SYJ 35 TF	SYJ 507	YAR 207-2F	1,50	–	–
SY 35 TR	SY 507 M	YAR 207-2RF	1,45	ECY 207	22
SY 40 TF	SY 508 M	YAR 208-2F	1,80	ECY 208	23,5
SYJ 40 TF	SYJ 508	YAR 208-2F	1,85	–	–
SY 40 TR	SY 508 M	YAR 208-2RF	1,80	ECY 208	23,5
SY 45 TF	SY 509 M	YAR 209-2F	2,20	ECY 209	23
SYJ 45 TF	SYJ 509	YAR 209-2F	2,40	–	–
SY 45 TR	SY 509 M	YAR 209-2RF	2,20	ECY 209	23
SY 50 TF	SY 510 M	YAR 210-2F	2,70	ECY 210	29,5
SYJ 50 TF	SYJ 510	YAR 210-2F	2,95	–	–
SY 50 TR	SY 510 M	YAR 210-2RF	2,70	ECY 210	29,5
SY 55 TF	SY 511 M	YAR 211-2F	3,60	ECY 211	34
SYJ 55 TF	SYJ 511	YAR 211-2F	3,70	–	–
SY 55 TR	SY 511 M	YAR 211-2RF	3,60	ECY 211	34
SY 60 TF	SY 512 M	YAR 212-2F	4,45	ECY 212	35,5
SYJ 60 TF	SYJ 512	YAR 212-2F	4,85	–	–
SY 60 TR	SY 512 M	YAR 212-2RF	4,45	ECY 212	35,5

Y-bearing plummer block units with a cast housing and grub screws, metric shafts
d **65 – 100** mm



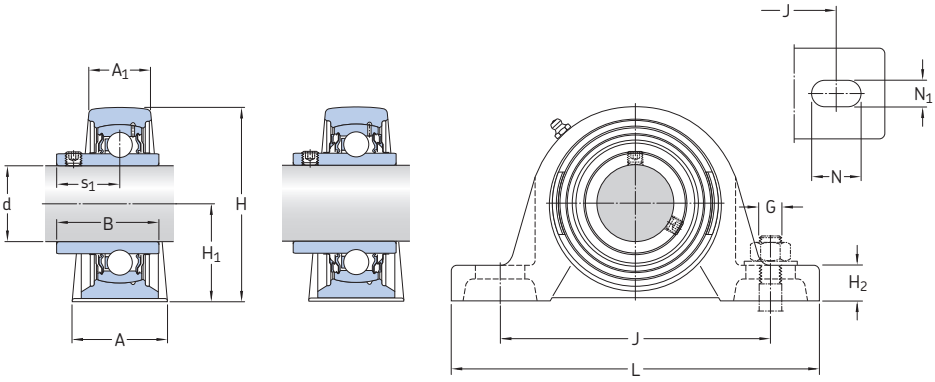
TF

Dimensions													Basic load ratings		Fatigue load limit	Limiting speed	Designation
													dynamic	static		with shaft tolerance	Bearing unit
d	A	A_1	B	H	H_1	H_2	J	L	N	N_1	G	s_1	C	C_0	P_u	h6	
mm													kN		kN	r/min	–
65	65	44	68,3	151	76,2	29	203	257	35	22	20	42,9	57,2	40	1,7	3 000	**SY 65 TF**
	70	49	68,3	151	76,2	27	203	265	35	25	20	42,9	57,2	40	1,7	3 000	**SYJ 65 TF**
70	72	46	69,9	156	79,4	27	210	266	30	25	20	39,7	62,4	45	1,86	2 800	**SYJ 70 TF**
75	74	54	73,1	166	82,5	28	217	275	30	25	20	46,1	66,3	49	2,04	2 600	**SYJ 75 TF**
80	78	50	77,9	176	88,9	30	232	292	35	25	20	47,7	72,8	53	2,16	2 400	**SYJ 80 TF**
90	88	54	89	201	101,6	33	262	327	35	27	22	54	95,6	72	2,7	2 000	**SYJ 90 TF**
100	95	57	98,4	226	115	38	308	380	48	26	24	63,4	124	93	3,35	1 900	**SYJ 100 TF**



Designations Bearing unit	Separate components Housing	Bearing	**Mass** Bearing unit	**Appropriate end cover** Designation	Dimension A_5
–			kg	–	mm
SY 65 TF	SY 513 M	YAR 213-2F	5,70	ECY 213	35,5
SYJ 65 TF	SYJ 513	YAR 213-2F	6,15	–	–
SYJ 70 TF	SYJ 514	YAR 214-2F	6,20	–	–
SYJ 75 TF	SYJ 515	YAR 215-2F	7,30	–	–
SYJ 80 TF	SYJ 516	YAR 216-2F	9,70	–	–
SYJ 90 TF	SYJ 518	YAR 218-2F	14,0	–	–
SYJ 100 TF	SYJ 520	YAR 220-2F	19,0	–	–

Y-bearing plummer block units with a cast housing and grub screws, inch shafts
d **1/2 – 1 3/16** in

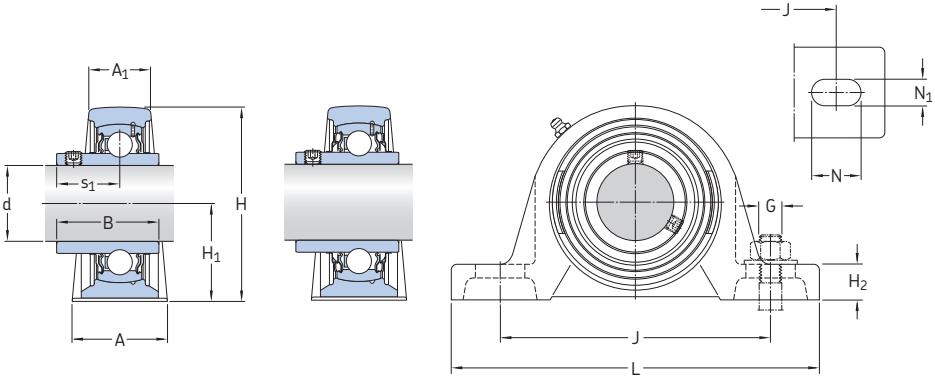


TF TR

Dimensions													Designation Bearing unit
d	A	A_1	B	H	H_1	H_2	J	L	N	N_1	G	s_1	
in/*mm*													–
1/2	1.26	0.71	1.08	2.21	1.19	0.55	3.82	5.00	0.81	0.45	3/8	0.63	**SY 1/2 TF**
12,7	*32*	*18*	*27,4*	*56*	*30,2*	*14*	*97*	*127*	*20,5*	*11,5*	*10*	*15,9*	
	1.26	0.71	1.08	2.09	1.06	0.43	3.82	5.00	0.81	0.45	3/8	0.63	**SYH 1/2 TF**
	32	*18*	*27,4*	*53*	*27*	*10,8*	*97*	*127*	*20,5*	*11,5*	*10*	*15,9*	
3/4	1.26	0.83	1.22	2.56	1.31	0.55	3.82	5.00	0.81	0.45	3/8	0.72	**SY 3/4 TF**
19,05	*32*	*21*	*31*	*65*	*33,3*	*14*	*97*	*127*	*20,5*	*11,5*	*10*	*18,3*	
	1.34	0.91	1.22	2.56	1.31	0.55	3.82	5.00	0.81	0.51	3/8	0.72	**SYJ 3/4 TF**
	34	*23*	*31*	*65*	*33,3*	*14*	*97*	*127*	*20,7*	*13*	*10*	*18,3*	
5/8	1.26	0.71	1.08	2.21	1.19	0.55	3.82	5.00	0.81	0.45	3/8	0.63	**SY 5/8 TF**
15,875	*32*	*18*	*27,4*	*56*	*30,2*	*14*	*97*	*127*	*20,5*	*11,5*	*10*	*15,9*	
13/16	1.42	0.87	1.34	2.76	1.44	0.63	4.02	5.12	0.77	0.45	3/8	0.78	**SY 13/16 TF**
20,637	*36*	*22*	*34,1*	*70*	*36,5*	*16*	*102*	*130*	*19,5*	*11,5*	*10*	*19,8*	
7/8	1.42	0.87	1.34	2.76	1.44	0.63	4.02	5.12	0.77	0.45	3/8	0.78	**SY 7/8 TF**
22,225	*36*	*22*	*34,1*	*70*	*36,5*	*16*	*102*	*130*	*19,5*	*11,5*	*10*	*19,8*	
15/16	1.42	0.87	1.34	2.76	1.44	0.63	4.02	5.12	0.77	0.45	3/8	0.78	**SY 15/16 TF**
23,813	*36*	*22*	*34,1*	*70*	*36,5*	*16*	*102*	*130*	*19,5*	*11,5*	*10*	*19,8*	
1	1.42	0.87	1.34	2.78	1.44	0.63	4.02	5.12	0.77	0.45	3/8	0.78	**SY 1. TF**
25,4	*36*	*22*	*34,1*	*70,5*	*36,5*	*16*	*102*	*130*	*19,5*	*11,5*	*10*	*19,8*	
	1.42	0.87	1.34	2.76	1.44	0.63	4.02	5.12	0.77	0.45	3/8	0.78	**SY 1. TF/AH**
	36	*22*	*34,1*	*70*	*36,5*	*16*	*102*	*130*	*19,5*	*11,5*	*10*	*19,8*	
	1.50	0.94	1.34	2.78	1.44	0.63	4.02	5.51	0.85	0.51	1/2	0.78	**SYJ 1. TF**
	38	*24*	*34,1*	*70,5*	*36,5*	*16*	*102*	*140*	*21,5*	*13*	*12*	*19,8*	
	1.42	0.87	1.34	2.78	1.44	0.63	4.02	5.12	0.77	0.45	3/8	0.78	**SY 1. TR**
	36	*22*	*34,1*	*70,5*	*36,5*	*16*	*102*	*130*	*19,5*	*11,5*	*10*	*19,8*	
1 1/16	1.57	0.98	1.50	3.23	1.69	0.65	4.63	5.98	0.93	0.55	1/2	0.87	**SY 1.1/16 TF**
26,988	*40*	*25*	*38,1*	*82*	*42,9*	*16,5*	*117,5*	*152*	*23,5*	*14*	*12*	*22,2*	
1 1/8	1.57	0.98	1.50	3.23	1.94	0.65	4.63	5.98	0.93	0.55	1/2	0.87	**SY 1.1/8 TF**
28,575	*40*	*25*	*38,1*	*82*	*49,2*	*16,5*	*117,5*	*152*	*23,5*	*14*	*12*	*22,2*	
1 3/16	1.57	0.98	1.50	3.23	1.69	0.65	4.63	5.98	0.93	0.55	1/2	0.87	**SY 1.3/16 TF**
30,163	*40*	*25*	*38,1*	*82*	*42,9*	*16,5*	*117,5*	*152*	*23,5*	*14*	*12*	*22,2*	
	1.57	0.98	1.50	3.23	1.69	0.65	4.63	5.98	0.93	0.55	1/2	0.87	**SY 1.3/16 TF/AH**
	40	*25*	*38,1*	*82*	*42,9*	*16,5*	*117,5*	*152*	*23,5*	*14*	*12*	*22,2*	

Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SY 1/2 TF	SY 503 U	YAR 203-008-2F	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	1.21 *0,55*
SYH 1/2 TF	SYH 503 U	YAR 203-008-2F	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	1.21 *0,55*
SY 3/4 TF	SY 504 M	YAR 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.23 *0,56*
SYJ 3/4 TF	SYJ 504	YAR 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.19 *0,54*
SY 5/8 TF	SY 503 U	YAR 203-010-2F	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	1.12 *0,51*
SY 13/16 TF	SY 505 U	YAR 205-013-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.85 *0,84*
SY 7/8 TF	SY 505 U	YAR 205-014-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.78 *0,81*
SY 15/16 TF	SY 505 U	YAR 205-015-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.71 *0,78*
SY 1. TF	SY 505 M	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.57 *0,71*
SY 1. TF/AH	SY 505 U/AH	YAR 205-100-2F/AH	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.59 *0,72*
SYJ 1. TF	SYJ 505	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.61 *0,73*
SY 1. TR	SY 505 M	YAR 205-100-2RF	3 150 *14*	1 760 *7,8*	80 *0,335*	4 300	1.59 *0,72*
SY 1.1/16 TF	SY 506 U	YAR 206-101-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.65 *1,20*
SY 1.1/8 TF	SY 506 U	YAR 206-102-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.60 *1,20*
SY 1.3/16 TF	SY 506 U	YAR 206-103-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.60 *1,20*
SY 1.3/16 TF/AH	SY 506 U/AH	YAR 206-103-2F/AH	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.60 *1,20*

Y-bearing plummer block units with a cast housing and grub screws, inch shafts
d **1 1/4 – 1 5/8** in

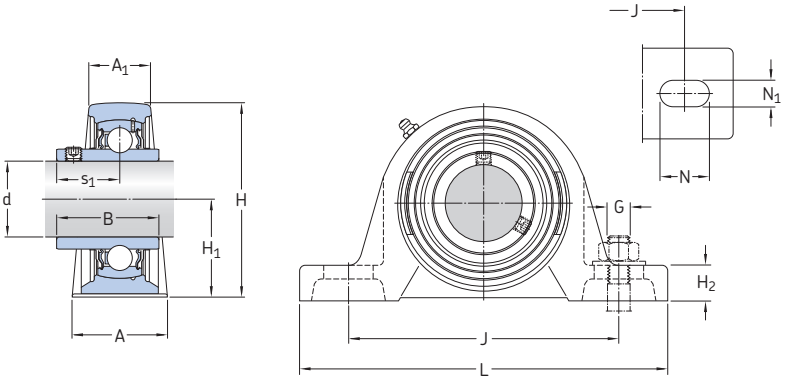


TF TR

Dimensions													Designation Bearing unit
d	A	A_1	B	H	H_1	H_2	J	L	N	N_1	G	s_1	
in/*mm*													–
1 1/4	1.77	1.06	1.69	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.00	**SY 1.1/4 TF**
31,75	*45*	*27*	*42,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*25,4*	
	1.81	1.10	1.69	3.66	1.87	0.67	5.08	6.57	0.94	0.67	5/8	1.00	**SYJ 1.1/4 TF**
	46	*28*	*42,9*	*93*	*47,6*	*17*	*129*	*167*	*24*	*17*	*14*	*25,4*	
	1.77	1.06	1.69	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.00	**SY 1.1/4 TR**
	45	*27*	*42,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*25,4*	
1 5/16	1.77	1.06	1.69	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.00	**SY 1.5/16 TF**
33,337	*45*	*27*	*42,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*25,4*	
1 3/8	1.77	1.06	1.69	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.00	**SY 1.3/8 TF**
34,925	*45*	*27*	*42,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*25,4*	
1 7/16	1.77	1.06	1.69	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.00	**SY 1.7/16 TF**
36,513	*45*	*27*	*42,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*25,4*	
	1.87	1.12	1.94	4.25	2.12	0.81	5.66	7.37	0.96	0.55	1/2	1.19	**SYM 1.7/16 TF**
	47,6	*28,6*	*49,2*	*108*	*54*	*20,6*	*143,7*	*187,5*	*24,5*	*14*	*12*	*30,2*	
1 1/2	1.89	1.18	1.94	3.90	1.94	0.75	5.33	6.89	0.96	0.55	1/2	1.19	**SY 1.1/2 TF**
38,1	*48*	*30*	*49,2*	*99*	*49,2*	*19*	*135,5*	*175*	*24,5*	*14*	*12*	*30,2*	
	1.89	1.18	1.94	3.90	1.94	0.75	5.33	6.89	0.96	0.55	1/2	1.19	**SY 1.1/2 TF/AH**
	48	*30*	*49,2*	*99*	*49,2*	*19*	*135,5*	*175*	*24,5*	*14*	*12*	*30,2*	
	1.93	1.22	1.94	3.90	1.94	0.71	5.37	7.24	1.00	0.67	9/16	1.19	**SYJ 1.1/2 TF**
	49	*31*	*49,2*	*99*	*49,2*	*18*	*136,5*	*184*	*25,5*	*17*	*14*	*30,2*	
	1.87	1.26	1.94	4.25	2.12	0.81	5.66	7.37	0.89	0.55	1/2	1.19	**SYM 1.1/2 TF**
	47,6	*32*	*49,2*	*108*	*54*	*20,6*	*143,7*	*187,5*	*22,7*	*14*	*12*	*30,2*	
	1.89	1.18	1.94	3.90	1.94	0.75	5.33	6.89	0.96	0.55	1/2	1.19	**SY 1.1/2 TR**
	48	*30*	*49,2*	*99*	*49,2*	*19*	*135,5*	*175*	*24,5*	*14*	*12*	*30,2*	
1 9/16	1.89	1.18	1.94	3.90	1.94	0.75	5.33	6.89	0.96	0.55	1/2	1.19	**SY 1.9/16 TF**
39,688	*48*	*30*	*49,2*	*99*	*49,2*	*19*	*135,5*	*175*	*24,5*	*14*	*12*	*30,2*	
1 5/8	1.90	1.26	1.94	4.22	2.12	0.81	5.66	7.36	0.89	0.55	1/2	1.19	**SY 1.5/8 TF**
41,275	*48,3*	*32*	*49,2*	*107*	*54*	*20,6*	*143,7*	*187*	*22,7*	*14*	*12*	*30,2*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SY 1.1/4 TF	SY 507 M	YAR 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.35 *1,50*
SYJ 1.1/4 TF	SYJ 507	YAR 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.45 *1,55*
SY 1.1/4 TR	SY 507 M	YAR 207-104-2RF	5 740 *25,5*	3 440 *15,3*	150 *0,655*	3 200	3.35 *1,50*
SY 1.5/16 TF	SY 507 U	YAR 207-105-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.65 *1,65*
SY 1.3/8 TF	SY 507 U	YAR 207-106-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.35 *1,50*
SY 1.7/16 TF	SY 507 U	YAR 207-107-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.50 *1,60*
SYM 1.7/16 TF	SYM 508 U	YAR 208-107-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	5.35 *2,40*
SY 1.1/2 TF	SY 508 M	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.10 *1,85*
SY 1.1/2 TF/AH	SY 508 U/AH	YAR 208-108-2F/AH	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.95 *1,80*
SYJ 1.1/2 TF	SYJ 508	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.20 *1,90*
SYM 1.1/2 TF	SYM 509 U	YAR 209-108-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	2.50 *2,55*
SY 1.1/2 TR	SY 508 M	YAR 208-108-2RF	6 910 *30,7*	4 280 *19*	180 *0,8*	2 800	4.10 *1,85*
SY 1.9/16 TF	SY 508 U	YAR 208-109-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 300	4.25 *1,95*
SY 1.5/8 TF	SY 509 U	YAR 209-110-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.45 *2,45*

Y-bearing plummer block units with a cast housing and grub screws, inch shafts
d **1 11/16 – 2 1/4** in

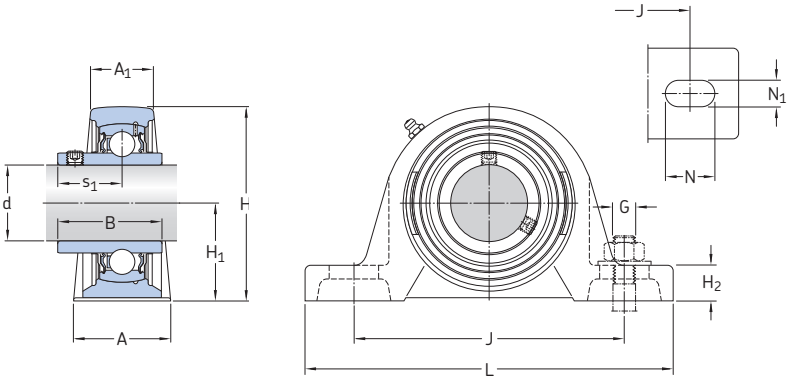


TF

Dimensions													Designation Bearing unit
d	A	A_1	B	H	H_1	H_2	J	L	N	N_1	G	s_1	
in/*mm*													–
1 11/16	1.90	1.26	1.94	4.22	2.12	0.81	5.66	7.36	0.89	0.55	1/2	1.19	**SY 1.11/16 TF**
42,862	*48,3*	*32*	*49,2*	*107*	*54*	*20,6*	*143,7*	*187*	*22,7*	*14*	*12*	*30,2*	
	1.90	1.26	1.94	4.22	2.12	0.81	5.66	7.36	0.89	0.55	1/2	1.19	**SY 1.11/16 TF/AH**
	48,3	*32*	*49,2*	*107*	*54*	*20,6*	*143,7*	*187*	*22,7*	*14*	*12*	*30,2*	
	2.12	1.38	2.03	4.50	2.25	0.87	6.19	7.99	1.02	0.71	5/8	1.28	**SYM 1.11/16 TF**
	54	*35*	*51,6*	*114,5*	*57,2*	*22,2*	*157,2*	*203*	*26*	*18*	*16*	*32,6*	
1 3/4	1.89	1.26	1.94	4.23	2.13	0.83	5.65	7.36	0.89	0.55	1/2	1.19	**SY 1.3/4 TF**
44,45	*48*	*32*	*49,2*	*107,5*	*54*	*21*	*143,5*	*187*	*22,5*	*14*	*12*	*30,2*	
	2.05	1.42	1.94	4.23	2.13	0.79	5.65	7.48	0.93	0.67	9/16	1.19	**SYJ 1.3/4 TF**
	52	*36*	*49,2*	*107,5*	*54*	*20*	*143,5*	*190*	*23,5*	*17*	*14*	*30,2*	
	2.13	1.34	2.03	4.49	2.25	0.87	6.18	7.99	1.02	0.71	5/8	1.28	**SYM 1.3/4 TF**
	54	*34*	*51,6*	*114*	*57,2*	*22*	*157*	*203*	*26*	*18*	*16*	*32,6*	
1 15/16	2.13	1.34	2.03	4.49	2.25	0.87	6.18	7.99	1.02	0.71	5/8	1.28	**SY 1.15/16 TF**
49,212	*54*	*34*	*51,6*	*114*	*57,2*	*22*	*157*	*203*	*26*	*18*	*16*	*32,6*	
	2.13	1.34	2.03	4.49	2.25	0.87	6.18	7.99	1.02	0.71	5/8	1.28	**SY 1.15/16 TF/AH**
	54	*34*	*51,6*	*114*	*57,2*	*22*	*157*	*203*	*26*	*18*	*16*	*32,6*	
	2.13	1.34	2.03	4.46	2.19	0.84	6.18	7.99	1.02	0.71	5/8	1.28	**SYH 1.15/16 TF**
	54	*34*	*51,6*	*113,5*	*55,6*	*21,4*	*157*	*203*	*26*	*18*	*16*	*32,6*	
	2.38	1.57	2.19	5.00	2.50	0.94	6.75	8.62	1.08	0.71	5/8	1.31	**SYM 1.15/16 TF**
	60,4	*40*	*55,6*	*127*	*63,5*	*23,8*	*171,5*	*219*	*27,5*	*18*	*16*	*33,4*	
2	2.36	1.57	2.19	4.96	2.50	0.94	6.75	8.62	1.08	0.71	5/8	1.31	**SY 2. TF**
50,8	*60*	*40*	*55,6*	*126*	*63,5*	*24*	*171,5*	*219*	*27,5*	*18*	*16*	*33,4*	
	2.36	1.57	2.19	4.96	2.50	0.94	6.75	8.62	1.08	0.79	5/8	1.31	**SYJ 2. TF**
	60	*40*	*55,6*	*126*	*63,5*	*24*	*171,5*	*219*	*27,5*	*20*	*16*	*33,4*	
	2.38	1.57	2.19	5.00	2.50	0.94	6.75	8.62	1.08	0.71	5/8	1.31	**SY 2. TF/AH**
	60,4	*40*	*55,6*	*127*	*63,5*	*23,8*	*171,5*	*219*	*27,5*	*18*	*16*	*33,4*	
2 3/16	2.38	1.57	2.19	5.00	2.50	0.94	6.75	8.62	1.08	0.71	5/8	1.31	**SY 2.3/16 TF**
55,563	*60,4*	*40*	*55,6*	*127*	*63,5*	*23,8*	*171,5*	*219*	*27,5*	*18*	*16*	*33,4*	
	2.38	1.57	2.19	5.00	2.50	0.94	6.75	8.62	1.08	0.71	5/8	1.31	**SY 2.3/16 TF/AH**
	60,4	*40*	*55,6*	*127*	*63,5*	*23,8*	*171,5*	*219*	*27,5*	*18*	*16*	*33,4*	
	2.36	1.65	2.56	5.50	2.75	1.02	7.50	9.45	1.16	0.71	5/8	1.56	**SYM 2.3/16 TF**
	60	*42*	*65,1*	*139,5*	*69,9*	*26*	*190,5*	*240*	*29,5*	*18*	*16*	*39,7*	
2 1/4	2.36	1.65	2.56	5.50	2.75	1.02	7.50	9.45	1.16	0.71	5/8	1.56	**SY 2.1/4 TF**
57,15	*60*	*42*	*65,1*	*139,5*	*69,9*	*26*	*190,5*	*240*	*29,5*	*18*	*16*	*39,7*	
	2.36	1.65	2.56	5.44	2.69	1.00	7.50	9.45	1.16	0.71	5/8	1.56	**SYH 2.1/4 TF**
	60	*42*	*65,1*	*138*	*68,3*	*25,4*	*190,5*	*240*	*29,5*	*18*	*16*	*39,7*	

Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SY 1.11/16 TF	SY 509 U	YAR 209-111-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.30 *2,40*
SY 1.11/16 TF/AH	SY 509 U/AH	YAR 209-111-2F/AH	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.30 *2,40*
SYM 1.11/16 TF	SYM 510 U	YAR 210-111-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.60 *3,00*
SY 1.3/4 TF	SY 509 M	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.85 *2,20*
SYJ 1.3/4 TF	SYJ 509	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.30 *2,40*
SYM 1.3/4 TF	SY 510 U	YAR 210-112-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.75 *3,05*
SY 1.15/16 TF	SY 510 U	YAR 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.30 *2,85*
SY 1.15/16 TF/AH	SY 510 U/AH	YAR 210-115-2F/AH	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.30 *2,85*
SYH 1.15/16 TF	SYH 510 U	YAR 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.45 *2,90*
SYM 1.15/16 TF	SY 511 U	YAR 211-115-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.80 *4,00*
SY 2. TF	SY 511 M	YAR 211-200-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.25 *3,75*
SYJ 2. TF	SYJ 511	YAR 211-200-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.50 *3,85*
SY 2. TF/AH	SY 511 U/AH	YAR 211-200-2F/AH	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.80 *4,00*
SY 2.3/16 TF	SY 511 U	YAR 211-203-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.95 *3,60*
SY 2.3/16 TF/AH	SY 511 U/AH	YAR 211-203-2F/AH	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.40 *3,80*
SYM 2.3/16 TF	SY 512 U	YAR 212-203-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	12.0 *5,45*
SY 2.1/4 TF	SY 512 U	YAR 212-204-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	12.0 *5,45*
SYH 2.1/4 TF	SYH 512 U	YAR 212-204-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	10.4 *4,70*

Y-bearing plummer block units with a cast housing and grub screws, inch shafts
d **2 7/16 – 3** in



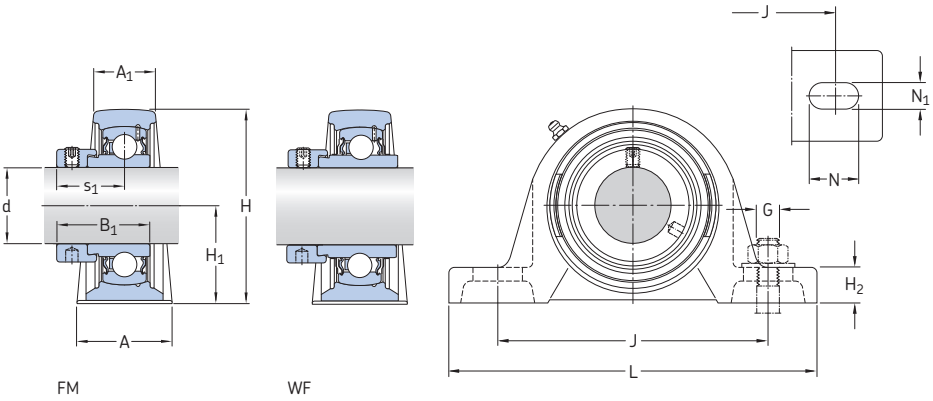
TF

Dimensions													Designation Bearing unit
d	A	A_1	B	H	H_1	H_2	J	L	N	N_1	G	s_1	
in/*mm*													–
2 7/16	2.36	1.65	2.56	5.50	2.75	1.02	7.50	9.45	1.16	0.71	5/8	1.56	**SY 2.7/16 TF**
61,913	*60*	*42*	*65,1*	*139,5*	*69,9*	*26*	*190,5*	*240*	*29,5*	*18*	*16*	*39,7*	
	2.36	1.65	2.56	5.44	2.69	1.00	7.50	9.45	1.16	0.71	5/8	1.56	**SYH 2.7/16 TF**
	60	*42*	*65,1*	*138*	*68,3*	*25,4*	*190,5*	*240*	*29,5*	*18*	*16*	*39,7*	
	2.56	1.73	2.75	6.04	3.00	1.50	8.00	10.24	1.16	0.87	3/4	1.56	**SYM 2.7/16 TF**
	65	*44*	*69,9*	*153,5*	*76,2*	*38,1*	*203,2*	*260*	*29,5*	*22*	*20*	*39,7*	
2 1/2	2.56	1.73	2.69	5.94	3.00	1.14	7.99	10.12	1.38	0.87	3/4	1.69	**SY 2.1/2 TF**
63,5	*65*	*44*	*68,3*	*151*	*76,2*	*29*	*203*	*257*	*35*	*22*	*20*	*42,9*	
	2.76	1.93	2.69	5.94	3.00	1.06	7.99	10.43	1.38	0.98	3/4	1.69	**SYJ 2.1/2 TF**
	70	*49*	*68,3*	*151*	*76,2*	*27*	*203*	*265*	*35*	*25*	*20*	*42,9*	
	2.56	1.73	2.75	6.04	3.00	1.54	8.00	10.24	1.16	0.87	3/4	1.56	**SYM 2.1/2 TF**
	65	*44*	*69,9*	*153,5*	*76,2*	*39,1*	*203,2*	*260*	*29,5*	*22*	*20*	*39,7*	
2 11/16	2.56	1.73	2.69	5.87	3.00	1.14	7.99	10.12	1.38	0.87	3/4	1.69	**SY 2.11/16 TF**
68,263	*65*	*44*	*68,3*	*149*	*76,2*	*29*	*203*	*257*	*35*	*22*	*20*	*42,9*	
	3.00	1.89	2.88	6.97	3.50	1.86	9.00	12	1.38	0.88	3/4	1.81	**SYM 2.11/16 TF**
	76,2	*48*	*73,1*	*177*	*88,9*	*47,2*	*228,6*	*305*	*35*	*22,2*	*20*	*46,1*	
2 3/4	2.82	1.89	2.88	6.54	3.25	1.29	8.50	10.98	1.38	0.88	3/4	1.81	**SY 2.3/4 TF**
69,85	*71,6*	*48*	*73,1*	*166*	*82,6*	*32,8*	*215,9*	*279*	*35*	*22,2*	*20*	*46,1*	
2 15/16	2.82	1.89	3.07	6.54	3.25	1.29	8.50	10.98	1.38	0.88	3/4	1.81	**SY 2.15/16 TF**
74,613	*71,6*	*48*	*77,9*	*166*	*82,6*	*32,8*	*215,9*	*279*	*35*	*22,2*	*20*	*46,1*	
	3.07	2.05	3.07	6.97	3.50	1.87	9.00	12	1.38	0.88	3/4	1.88	**SYM 2.15/16 TF**
	78	*52*	*77,9*	*177*	*88,9*	*47,6*	*228,6*	*305*	*35*	*22,2*	*20*	*47,7*	
3	3.07	2.05	3.07	6.97	3.50	1.87	9.00	12	1.38	0.88	3/4	1.88	**SYM 3. TF**
76,2	*78*	*52*	*77,9*	*177*	*88,9*	*47,6*	*228,6*	*305*	*35*	*22,2*	*20*	*47,7*	

Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SY 2.7/16 TF	SY 512 U	YAR 212-207-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	10.0 *4,55*
SYH 2.7/16 TF	SYH 512 U	YAR 212-207-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	10.3 *4,65*
SYM 2.7/16 TF	SY 514 U	YAR 214-207-2F	14 040 *62,4*	9 900 *44*	420 *1,86*	2 800	16.0 *7,25*
SY 2.1/2 TF	SY 513 M	YAR 213-208-2F	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	12.8 *5,80*
SYJ 2.1/2 TF	SYJ 513	YAR 213-208-2F	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	13.8 *6,25*
SYM 2.1/2 TF	SY 514 U	YAR 214-208-2F	14 040 *62,4*	9 900 *44*	420 *1,86*	2 800	15.4 *7,00*
SY 2.11/16 TF	SY 513 U	YAR 213-211-2F	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	12.5 *5,70*
SYM 2.11/16 TF	SYM 515 U	YAR 215-211-2F	14 920 *66,3*	11 030 *49*	460 *2,04*	2 600	23.8 *10,8*
SY 2.3/4 TF	SY 515 U	YAR 215-212-2F	14 920 *66,3*	11 030 *49*	460 *2,04*	2 600	17.7 *8,00*
SY 2.15/16 TF	SY 515 U	YAR 215-215-2F	16 380 *72,8*	11 930 *53*	460 *2,04*	2 400	16.6 *7,55*
SYM 2.15/16 TF	SY 516 U	YAR 216-215-2F	16 380 *72,8*	11 930 *53*	490 *2,16*	2 400	22.8 *10,3*
SYM 3. TF	SY 516 U	YAR 216-300-2F	16 380 *72,8*	11 930 *53*	490 *2,16*	2 400	22.4 *10,2*

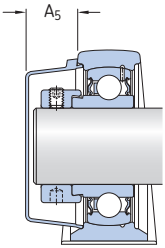
Y-bearing plummer block units with a cast housing and an eccentric locking collar, metric shafts

d **15 – 60** mm



FM WF

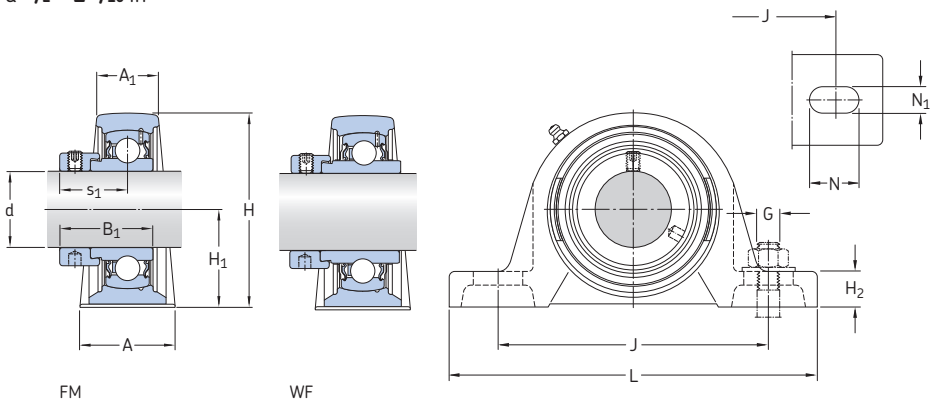
Dimensions													Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Designation Bearing unit
d	A	A_1	B_1	H	H_1	H_2	J	L	N	N_1	G	s_1	C	C_0	P_u		
mm													kN		kN	r/min	–
15	32	18	28,6	57	30,2	14	97	127	20,5	11,5	10	22,1	9,56	4,75	0,2	9 500	**SY 15 FM**
17	32	18	28,6	57	30,2	14	97	127	20,5	11,5	10	22,1	9,56	4,75	0,2	9 500	**SY 17 FM**
20	32	21	31	65	33,3	14	97	127	20,5	11,5	10	23,5	12,7	6,55	0,28	8 500	**SY 20 FM**
	32	21	43,7	65	33,3	14	97	127	20,5	11,5	10	26,6	12,7	6,55	0,28	8 500	**SY 20 WF**
25	36	22	31	70,5	36,5	16	102	130	19,5	11,5	10	23,5	14	7,8	0,335	7 000	**SY 25 FM**
	36	22	44,4	70,5	36,5	16	102	130	19,5	11,5	10	26,9	14	7,8	0,335	7 000	**SY 25 WF**
30	40	25	35,7	82,5	42,9	17	117,5	152	23,5	14	12	26,7	19,5	11,2	0,475	6 300	**SY 30 FM**
	40	25	48,4	82,5	42,9	17	117,5	152	23,5	14	12	30,1	19,5	11,2	0,475	6 300	**SY 30 WF**
35	45	27	38,9	93	47,6	19	126	160	21	14	12	29,4	25,5	15,3	0,655	5 300	**SY 35 FM**
	45	27	51,1	93	47,6	19	126	160	21	14	12	32,3	25,5	15,3	0,655	5 300	**SY 35 WF**
40	48	30	43,7	99	49,2	19	135,5	175	24,5	14	12	32,7	30,7	19	0,8	4 800	**SY 40 FM**
	48	30	56,3	99	49,2	19	135,5	175	24,5	14	12	34,9	30,7	19	0,8	4 800	**SY 40 WF**
45	48	32	43,7	107,5	54	21	143,5	187	22,5	14	12	32,7	33,2	21,6	0,915	4 300	**SY 45 FM**
	48	32	56,3	107,5	54	21	143,5	187	22,5	14	12	34,9	33,2	21,6	0,915	4 300	**SY 45 WF**
50	54	34	43,7	114,5	57,2	22	157	203	26	18	16	32,7	35,1	23,2	0,98	4 000	**SY 50 FM**
	54	34	62,7	114,5	57,2	22	157	203	26	18	16	38,1	35,1	23,2	0,98	4 000	**SY 50 WF**
55	60	40	48,4	126	63,5	24	171,5	219	27,5	18	16	36,4	43,6	29	1,25	3 600	**SY 55 FM**
	60	40	71,4	126	63,5	24	171,5	219	27,5	18	16	43,6	43,6	29	1,25	3 600	**SY 55 WF**
60	60	42	53,1	138	69,9	26,5	190,5	240	29,5	18	16	39,6	52,7	36	1,53	3 400	**SY 60 FM**
	60	42	77,8	138	69,9	26,5	190,5	240	29,5	18	16	46,8	52,7	36	1,53	3 400	**SY 60 WF**



Designations Bearing unit	Separate components Housing	Bearing	**Mass** Bearing unit	**Appropriate end cover** Designation	Dimension A_5
–			kg	–	mm
SY 15 FM	SY 503 M	YET 203/15	0,53	–	–
SY 17 FM	SY 503 M	YET 203	0,52	–	–
SY 20 FM	SY 504 M	YET 204	0,59	ECY 204	18,5
SY 20 WF	SY 504 M	YEL 204-2F	0,62	ECY 204	18,5
SY 25 FM	SY 505 M	YET 205	0,73	ECY 205	18
SY 25 WF	SY 505 M	YEL 205-2F	0,78	ECY 205	18
SY 30 FM	SY 506 M	YET 206	1,10	ECY 206	20
SY 30 WF	SY 506 M	YEL 206-2F	1,20	ECY 206	20
SY 35 FM	SY 507 M	YET 207	1,55	ECY 207	22
SY 35 WF	SY 507 M	YEL 207-2F	1,60	ECY 207	22
SY 40 FM	SY 508 M	YET 208	1,85	ECY 208	23,5
SY 40 WF	SY 508 M	YEL 208-2F	1,95	ECY 208	23,5
SY 45 FM	SY 509 M	YET 209	2,25	ECY 209	23
SY 45 WF	SY 509 M	YEL 209-2F	2,35	ECY 209	23
SY 50 FM	SY 510 M	YET 210	2,75	ECY 210	29,5
SY 50 WF	SY 510 M	YEL 210-2F	2,90	ECY 210	29,5
SY 55 FM	SY 511 M	YET 211	3,65	ECY 211	34
SY 55 WF	SY 511 M	YEL 211-2F	3,90	ECY 211	34
SY 60 FM	SY 512 M	YET 212	4,45	ECY 212	35,5
SY 60 WF	SY 512 M	YEL 212-2F	4,75	ECY 212	35,5

Y-bearing plummer block units with a cast housing and an eccentric locking collar, inch shafts

d **1/2 – 1 5/16** in

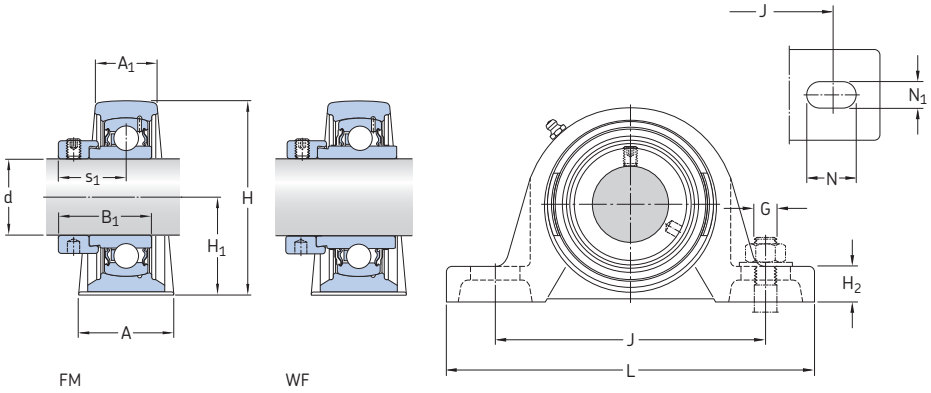


Dimensions													Designation Bearing unit
d	A	A_1	B_1	H	H_1	H_2	J	L	N	N_1	G	s_1	
in/*mm*													–
1/2	1.26	0.71	1.13	2.21	1.19	0.55	3.82	5.00	0.81	0.45	3/8	0.87	**SY 1/2 FM**
12,7	*32*	*18*	*28,6*	*56*	*30,2*	*14*	*97*	*127*	*20,5*	*11,5*	*10*	*22,1*	
3/4	1.26	0.83	1.22	2.52	1.31	0.55	3.82	5.00	0.81	0.45	3/8	0.94	**SY 3/4 FM**
19,05	*32*	*21*	*31*	*64*	*33,3*	*14*	*97*	*127*	*20,5*	*11,5*	*10*	*24*	
	1.26	0.83	1.72	2.46	1.25	0.49	3.82	5.00	0.81	0.45	3/8	1.05	**SYH 3/4 WF**
	32	*21*	*43,7*	*62,5*	*31,8*	*12,5*	*97*	*127*	*20,5*	*11,5*	*10*	*26,6*	
15/16	1.42	0.87	1.22	2.76	1.44	0.63	4.02	5.12	0.77	0.45	3/8	0.93	**SY 15/16 FM**
23,813	*36*	*22*	*31*	*70*	*36,5*	*16*	*102*	*130*	*19,5*	*11,5*	*10*	*23,5*	
1	1.42	0.87	1.22	2.63	1.31	0.51	4.02	5.12	0.77	0.45	3/8	0.93	**SYH 1. FM**
25,4	*36*	*22*	*31*	*67*	*33,4*	*12,9*	*102*	*130*	*19,5*	*11,5*	*10*	*23,5*	
	1.42	0.87	1,75	2.63	1.31	0.51	4.02	5.12	0.77	0.45	3/8	1.06	**SYH 1. WF**
	36	*22*	*44,4*	*67*	*33,4*	*12,9*	*102*	*130*	*19,5*	*11,5*	*10*	*26,9*	
1 1/8	1.57	0.98	1.41	3.23	1.69	0.65	4.63	5.98	0.93	0.55	1/2	1.05	**SY 1.1/8 FM**
28,575	*40*	*25*	*35,7*	*82*	*42,9*	*16,5*	*117,5*	*152*	*23,5*	*14*	*12*	*26,7*	
	1.57	0.98	1.91	3.14	1.56	0.58	4.63	5.98	0.93	0.55	1/2	1.19	**SYH 1.1/8 WF**
	40	*25*	*48,4*	*80*	*39,7*	*14,8*	*117,5*	*152*	*23,5*	*14*	*12*	*30,1*	
1 3/16	1.57	0.98	1.41	3.23	1.69	0.65	4.63	5.98	0.93	0.55	1/2	1.05	**SY 1.3/16 FM**
30,163	*40*	*25*	*35,7*	*82*	*42,9*	*16,5*	*117,5*	*152*	*23,5*	*14*	*12*	*26,7*	
	1.57	0.98	1.41	3.14	1.56	0.58	4.63	5.98	0.93	0.55	1/2	1.05	**SYH 1.3/16 FM**
	40	*25*	*35,7*	*80*	*39,7*	*14,8*	*117,5*	*152*	*23,5*	*14*	*12*	*26,7*	
	1.57	0.98	1.91	3.14	1.56	0.58	4.63	5.98	0.93	0.55	1/2	1.19	**SYH 1.3/16 WF**
	40	*25*	*48,4*	*80*	*39,7*	*14,8*	*117,5*	*152*	*23,5*	*14*	*12*	*30,1*	
1 1/4	1.77	1.06	1.53	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.16	**SY 1.1/4 FM**
31,75	*45*	*27*	*38,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*29,4*	
	1.77	1.06	1.53	3.60	1.81	0.69	4.96	6.30	0.83	0.55	1/2	1.16	**SYH 1.1/4 FM**
	45	*27*	*38,9*	*91,5*	*46,1*	*17,5*	*126*	*160*	*21*	*14*	*12*	*29,4*	
	1.77	1.06	2.01	3.60	1.81	0.69	4.96	6.30	0.83	0.55	1/2	1.27	**SYH 1.1/4 WF**
	45	*27*	*51,1*	*91,5*	*46,1*	*17,5*	*126*	*160*	*21*	*14*	*12*	*32,3*	
1 5/16	1.77	1.06	1.53	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.16	**SY 1.5/16 FM**
33,338	*45*	*27*	*38,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*29,4*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SY 1/2 FM	SY 503 U	YET 203-008	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	1.32 *0,60*
SY 3/4 FM	SY 504 U	YET 204-012	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.37 *0,62*
SYH 3/4 WF	SYH 504 U	YEL 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.45 *0,66*
SY 15/16 FM	SY 505 U	YET 205-015	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.65 *0,75*
SYH 1. FM	SYH 505 U	YET 205-100	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.63 *0,74*
SYH 1. WF	SYH 505 U	YEL 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.73 *0,79*
SY 1.1/8 FM	SY 506 U	YET 206-102	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.45 *1,10*
SYH 1.1/8 WF	SYH 506 U	YEL 206-102-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	3.20 *1,45*
SY 1.3/16 FM	SY 506 U	YET 206-103	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.45 *1,10*
SYH 1.3/16 FM	SYH 506 U	YET 206-103	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.55 *1,15*
SYH 1.3/16 WF	SYH 506 U	YEL 206-103-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.65 *1,20*
SY 1.1/4 FM	SY 507 U	YET 207-104	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.75 *1,70*
SYH 1.1/4 FM	SYH 507 U	YET 207-104	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.55 *1,60*
SYH 1.1/4 WF	SYH 507 U	YEL 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	4.10 *1,85*
SY 1.5/16 FM	SY 507 U	YET 207-105	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.65 *1,65*

Y-bearing plummer block units with a cast housing and an eccentric locking collar, inch shafts

d **1 3/8 – 2** in

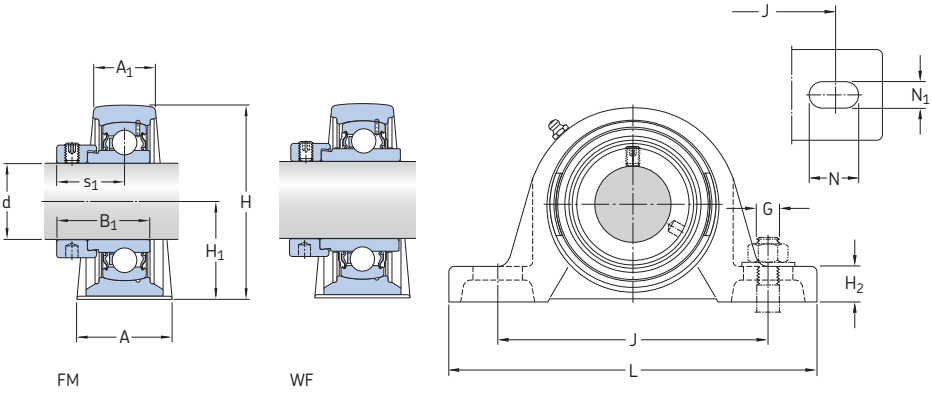


Dimensions													Designation Bearing unit
d	A	A_1	B_1	H	H_1	H_2	J	L	N	N_1	G	s_1	
in/*mm*													–
1 3/8	1.77	1.06	1.53	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.16	**SY 1.3/8 FM**
34,925	*45*	*27*	*38,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*29,4*	
	1.77	1.06	2.01	3.60	1.81	0.69	4.96	6.30	0.83	0.55	1/2	1.27	**SYH 1.3/8 WF**
	45	*27*	*51,1*	*91,5*	*46,1*	*17,5*	*126*	*160*	*21*	*14*	*12*	*32,3*	
1 7/16	1.77	1.06	1.53	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.16	**SY 1.7/16 FM**
36,513	*45*	*27*	*38,9*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*29,4*	
	1.77	1.06	2.01	3.66	1.87	0.75	4.96	6.30	0.83	0.55	1/2	1.27	**SY 1.7/16 WF**
	45	*27*	*51,1*	*93*	*47,6*	*19*	*126*	*160*	*21*	*14*	*12*	*32,3*	
	1.77	1.06	1.53	3.60	1.81	0.69	4.96	6.30	0.83	0.55	1/2	1.16	**SYH 1.7/16 FM**
	45	*27*	*38,9*	*91,5*	*46,1*	*17,5*	*126*	*160*	*21*	*14*	*12*	*29,4*	
	1.77	1.06	2.01	3.60	1.81	0.69	4.96	6.30	0.83	0.55	1/2	1.27	**SYH 1.7/16 WF**
	45	*27*	*51,1*	*91,5*	*46,1*	*17,5*	*126*	*160*	*21*	*14*	*12*	*32,3*	
1 1/2	1.89	1.18	1.72	3.90	1.94	0.75	5.33	6.89	0.96	0.55	1/2	1.31	**SY 1.1/2 FM**
38,1	*48*	*30*	*43,7*	*99*	*49,2*	*19*	*135,5*	*175*	*24,5*	*14*	*12*	*33,2*	
	1.89	1.18	2.22	3.90	1.94	0.75	5.33	6.89	0.96	0.55	1/2	1.37	**SYH 1.1/2 WF**
	48	*30*	*56,3*	*99*	*49,2*	*19*	*135,5*	*175*	*24,5*	*14*	*12*	*34,9*	
1 11/16	1.90	1.26	1.72	4.22	2.12	0.81	5.66	7.36	0.89	0.55	1/2	1.29	**SY 1.11/16 FM**
42,863	*48,3*	*32*	*43,7*	*107*	*54*	*20,6*	*143,7*	*187*	*22,7*	*14*	*12*	*32,7*	
	1.90	1.26	2.22	4.16	2.06	0.79	5.66	7.36	0.89	0.55	1/2	1.37	**SYH 1.11/16 WF**
	48,3	*32*	*56,3*	*105,5*	*52,4*	*20*	*143,7*	*187*	*22,7*	*14*	*12*	*34,9*	
1 3/4	1.90	1.26	1.72	4.22	2.12	0.81	5.66	7.36	0.89	0.55	1/2	1.29	**SY 1.3/4 FM**
44,45	*48,3*	*32*	*43,7*	*107*	*54*	*20,6*	*143,7*	*187*	*22,7*	*14*	*12*	*32,7*	
	1.90	1.26	2.22	4.16	2.06	0.79	5.66	7.36	0.89	0.55	1/2	1.37	**SYH 1.3/4 WF**
	48,3	*32*	*56,3*	*105,5*	*52,4*	*20*	*143,7*	*187*	*22,7*	*14*	*12*	*34,9*	
1 15/16	2.13	1.34	1.72	4.49	2.25	0.87	6.18	7.99	1.02	0.71	5/8	1.29	**SY 1.15/16 FM**
49,213	*54*	*34*	*43,7*	*114*	*57,2*	*22*	*157*	*203*	*26*	*18*	*16*	*32,7*	
	2.13	1.34	2.47	4.49	2.25	0.87	6.18	7.99	1.02	0.71	5/8	1.50	**SY 1.15/16 WF**
	54	*34*	*62,7*	*114*	*57,2*	*22*	*157*	*203*	*26*	*18*	*16*	*38,1*	
	2.13	1.34	2.47	4.46	2.19	0.84	6.18	7.99	1.02	0.71	5/8	1.50	**SYH 1.15/16 WF**
	54	*34*	*62,7*	*113,5*	*55,6*	*21,4*	*157*	*203*	*26*	*18*	*16*	*38,1*	
2	2.38	1.57	1.91	5.00	2.50	0.94	6.75	8.63	1.08	0.71	5/8	1.41	**SY 2. FM**
50,8	*60,4*	*40*	*48,4*	*127*	*63,5*	*23,8*	*171,5*	*219*	*27,5*	*18*	*16*	*35,9*	
	2.38	1.57	1.91	4.98	2.44	0.92	6.75	8.63	1.08	0.71	5/8	1.41	**SYH 2. FM**
	60,4	*40*	*48,4*	*126,5*	*61,9*	*23,3*	*171,5*	*219*	*27,5*	*18*	*16*	*35,9*	
	2.38	1.57	2.81	4.98	2.44	0.92	6.75	8.63	1.08	0.71	5/8	1.72	**SYH 2. WF**
	60,4	*40*	*71,4*	*126,5*	*61,9*	*23,3*	*171,5*	*219*	*27,5*	*18*	*16*	*43,6*	

Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SY 1.3/8 FM	SY 507 U	YET 207-106	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.65 *1,65*
SYH 1.3/8 WF	SYH 507 U	YEL 207-106-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.95 *1,80*
SY 1.7/16 FM	SY 507 U	YET 207-107	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.60 *1,63*
SY 1.7/16 WF	SY 507 U	YEL 207-107-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.75 *1,70*
SYH 1.7/16 FM	SYH 507 U	YET 207-107	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.40 *1,55*
SYH 1.7/16 WF	SYH 507 U	YEL 207-107-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.65 *1,65*
SY 1.1/2 FM	SY 508 U	YET 208-108	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.95 *1,80*
SYH 1.1/2 WF	SYH 508 U	YEL 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.50 *2,05*
SY 1.11/16 FM	SY 509 U	YET 209-111	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.05 *2,30*
SYH 1.11/16 WF	SYH 509 U	YEL 209-111-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.85 *2,65*
SY 1.3/4 FM	SY 509 U	YET 209-112	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.95 *2,25*
SYH 1.3/4 WF	SYH 509 U	YEL 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.30 *2,40*
SY 1.15/16 FM	SY 510 U	YET 210-115	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.05 *2,75*
SY 1.15/16 WF	SY 510 U	YEL 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.50 *2,95*
SYH 1.15/16 WF	SYH 510 U	YEL 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.50 *2,95*
SY 2. FM	SY 511 U	YET 211-200	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.40 *3,80*
SYH 2. FM	SYH 511 U	YET 211-200	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.80 *4,00*
SYH 2. WF	SYH 511 U	YEL 211-200-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	9.25 *4,20*

Y-bearing plummer block units with a cast housing and an eccentric locking collar, inch shafts

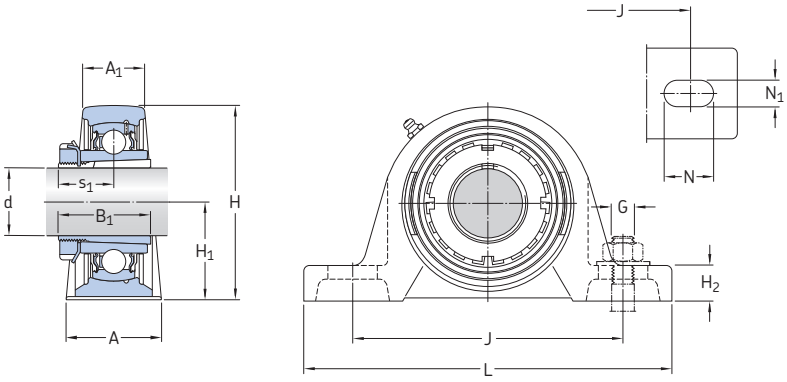
d **2 3/16 – 2 7/16** in



Dimensions													Designation Bearing unit
d	A	A_1	B_1	H	H_1	H_2	J	L	N	N_1	G	s_1	
in/*mm*													–
2 3/16	2.38	1.57	1.91	5.00	2.50	0.94	6.75	8.63	1.08	0.71	5/8	1.41	**SY 2.3/16 FM**
55,563	*60,4*	*40*	*48,4*	*127*	*63,5*	*23,8*	*171,5*	*219*	*27,5*	*18*	*16*	*35,9*	
	2.38	1.57	2.81	4.98	2.44	0.92	6.75	8.63	1.08	0.71	5/8	1.72	**SYH 2.3/16 WF**
	60,4	*40*	*71,4*	*126,5*	*61,9*	*23,3*	*171,5*	*219*	*27,5*	*18*	*16*	*43,6*	
2 7/16	2.36	1.65	3.06	5.50	2.75	1.02	7.50	9.45	1.15	0.71	5/8	1.84	**SYH 2.7/16 WF**
61,913	*60*	*42*	*77,8*	*139,5*	*69,9*	*26*	*190,5*	*240*	*29,1*	*18*	*16*	*46,7*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SY 2.3/16 FM	SY 511 U	YET 211-203	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.05 *3,65*
SYH 2.3/16 WF	SYH 511 U	YEL 211-203-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.70 *3,95*
SYH 2.7/16 WF	SYH 512 U	YEL 212-207-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	10.8 *4,90*

Y-bearing plummer block units with a cast housing and an adapter sleeve, metric shafts
d **20 – 60** mm

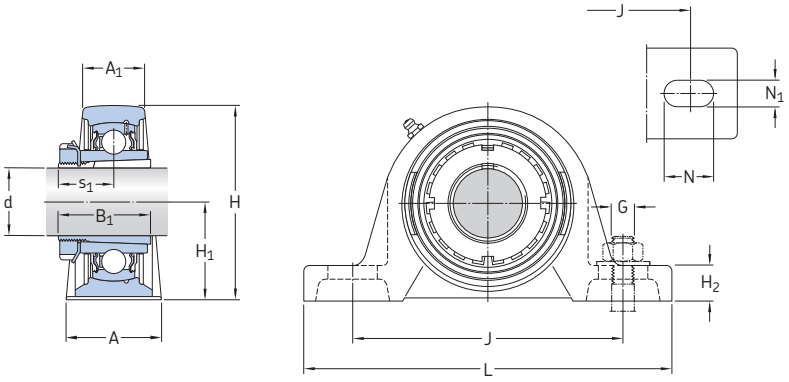


Dimensions													Basic load ratings		Fatigue load limit	Designations[1]	
													dynamic	static		Bearing unit	Adapter sleeve
d	A	A_1	B_1	H	H_1	H_2	J	L	N	N_1	G	s_1	C	C_0	P_u		
mm													kN		kN	–	
20	38	24	35	70,5	36,5	16	102	140	21,5	13	12	20	14	7,8	0,335	**SYJ 25 KF**	**H 2305**
25	42	27	38	82,5	42,9	16	118	165	24	17	14	22	19,5	11,2	0,475	**SYJ 30 KF**	**H 2306**
30	46	28	43	93	47,6	17	129	167	24	17	14	24,3	25,5	15,3	0,655	**SYJ 35 KF**	**H 2307**
35	49	31	46	99	49,2	18	136,5	184	25,5	17	14	27	30,7	19	0,8	**SYJ 40 KF**	**H 2308**
40	52	36	50	107,5	54	20	143,5	190	23,5	17	14	28,5	33,2	21,6	0,915	**SYJ 45 KF**	**H 2309**
45	58	38	55	114,5	57,2	22	157,5	206	26,5	20	16	30,5	35,1	23,2	0,98	**SYJ 50 KF**	**H 2310**
50	60	40	59	126	63,5	24	171,5	219	27,5	20	16	32,5	43,6	29	1,25	**SYJ 55 KF**	**H 2311**
55	65	47	62	138	69,8	26,5	188,5	241	29,5	20	16	34,3	52,7	36	1,53	**SYJ 60 KF**	**H 2312**
60	70	49	65	151	76,2	27	203	265	35	25	20	35,8	57,2	40	1,7	**SYJ 65 KF**	**H 2313**

[1] Bearing unit and adapter sleeve to be ordered separately

Designations Bearing unit without adapter sleeve	Separate components of the bearing unit Housing	Bearing	**Limiting speed**	**Mass** Bearing unit + sleeve
–			r/min	kg
SYJ 25 KF	SYJ 505	YSA 205-2FK	7 000	0,63
SYJ 30 KF	SYJ 506	YSA 206-2FK	6 300	0,90
SYJ 35 KF	SYJ 507	YSA 207-2FK	5 300	1,25
SYJ 40 KF	SYJ 508	YSA 208-2FK	4 800	1,80
SYJ 45 KF	SYJ 509	YSA 209-2FK	4 300	2,10
SYJ 50 KF	SYJ 510	YSA 210-2FK	4 000	2,75
SYJ 55 KF	SYJ 511	YSA 211-2FK	3 600	3,85
SYJ 60 KF	SYJ 512	YSA 212-2FK	3 400	5,00
SYJ 65 KF	SYJ 513	YSA 213-2FK	3 000	6,35

Y-bearing plummer block units with a cast housing and an adapter sleeve, inch shafts
d **3/4 – 2 1/8** in

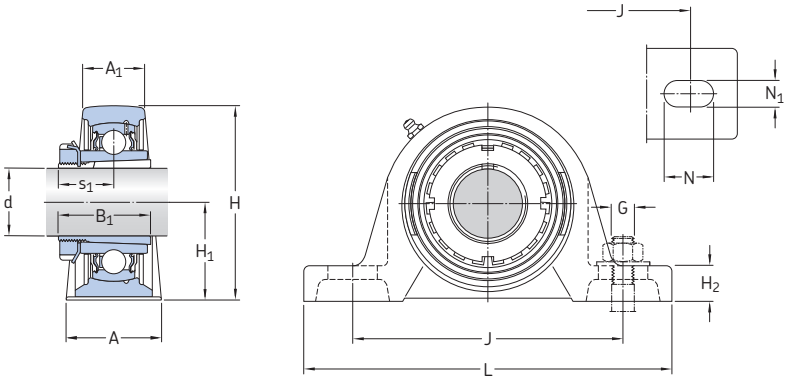


Dimensions													Designations[1]	
													Bearing unit	Adapter sleeve
d	A	A_1	B_1	H	H_1	H_2	J	L	N	N_1	G	s_1		
in/*mm*													–	
3/4 *19,05*	1.50 *38*	0.94 *24*	1.38 *35*	2.78 *70,5*	1.44 *36,5*	0.63 *16*	4.02 *102*	5.51 *140*	0.85 *21,5*	0.51 *13*	1/2 *12*	0.79 *20*	**SYJ 25 KF**	**HE 2305**
15/16 *23,813*	1.65 *42*	1.06 *27*	1.50 *38*	3.25 *82,5*	1.69 *42,9*	0.63 *16*	4.65 *118*	6.50 *165*	0.94 *24*	0.67 *17*	9/16 *14*	0.87 *22*	**SYJ 30 KF**	**HA 2306**
1 *25,4*	1.65 *42*	1.06 *27*	1.50 *38*	3.25 *82,5*	1.69 *42,9*	0.63 *16*	4.65 *118*	6.50 *165*	0.94 *24*	0.67 *17*	9/16 *14*	0.87 *22*	**SYJ 30 KF**	**HE 2306**
1 3/16 *30,163*	1.81 *46*	1.1 *28*	1.69 *43*	3.66 *93*	1.87 *47,6*	0.67 *17*	5.08 *129*	6.57 *167*	0.94 *24*	0.67 *17*	9/16 *14*	0.96 *24,3*	**SYJ 35 KF**	**HA 2307**
1 1/4 *31,75*	1.93 *49*	1.22 *31*	1.81 *46*	3.90 *99*	1.94 *49,2*	0.71 *18*	5.37 *136,5*	7.24 *184*	1.00 *25,5*	0.67 *17*	9/16 *14*	1.06 *27*	**SYJ 40 KF**	**HE 2308**
1 7/16 *36,513*	2.05 *52*	1.42 *36*	1.97 *50*	4.23 *107,5*	2.13 *54*	0.79 *20*	5.65 *143,5*	7.48 *190*	0.93 *23,5*	0.67 *17*	9/16 *14*	1.12 *28,5*	**SYJ 45 KF**	**HA 2309**
1 1/2 *38,1*	2.05 *52*	1.42 *36*	1.97 *50*	4.23 *107,5*	2.13 *54*	0.79 *20*	5.65 *143,5*	7.48 *190*	0.93 *23,5*	0.67 *17*	9/16 *14*	1.12 *28,5*	**SYJ 45 KF**	**HE 2309**
1 5/8 *41,275*	2.28 *58*	1.5 *38*	2.17 *55*	4.51 *114,5*	2.25 *57,2*	0.87 *22*	6.20 *157,5*	8.11 *206*	1.04 *26,5*	0.79 *20*	5/8 *16*	1.20 *30,5*	**SYJ 50 KF**	**HS 2310**
1 11/16 *42,863*	2.28 *58*	1.5 *38*	2.17 *55*	4.51 *114,5*	2.25 *57,2*	0.87 *22*	6.20 *157,5*	8.11 *206*	1.04 *26,5*	0.79 *20*	5/8 *16*	1.20 *30,5*	**SYJ 50 KF**	**HA 2310**
1 3/4 *44,45*	2.28 *58*	1.5 *38*	2.17 *55*	4.51 *114,5*	2.25 *57,2*	0.87 *22*	6.20 *157,5*	8.11 *206*	1.04 *26,5*	0.79 *20*	5/8 *16*	1.20 *30,5*	**SYJ 50 KF**	**HE 2310**
1 15/16 *49,213*	2.36 *60*	1.57 *40*	2.32 *59*	4.96 *126*	2.50 *63,5*	0.94 *24*	6.75 *171,5*	8.62 *219*	1.08 *27,5*	0.79 *20*	5/8 *16*	1.28 *32,5*	**SYJ 55 KF**	**HA 2311**
2 *50,8*	2.36 *60*	1.57 *40*	2.32 *59*	4.96 *126*	2.50 *63,5*	0.94 *24*	6.75 *171,5*	8.62 *219*	1.08 *27,5*	0.79 *20*	5/8 *16*	1.28 *32,5*	**SYJ 55 KF**	**HE 2311 B**
2 1/8 *53,975*	2.56 *65*	1.85 *47*	2.44 *62*	5.43 *138*	2.75 *69,8*	1.04 *26,5*	7.42 *188,5*	9.49 *241*	1.16 *29,5*	0.79 *20*	5/8 *16*	1.35 *34,3*	**SYJ 60 KF**	**HS 2312**

[1] Bearing unit and adapter sleeve to be ordered separately

Designations Bearing unit without adapter sleeve	Separate components of the bearing unit Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed**	**Mass** Bearing unit + sleeve
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SYJ 25 KF	SYJ 505	YSA 205-2FK	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.40 *0,63*
SYJ 30 KF	SYJ 506	YSA 206-2FK	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.00 *0,90*
SYJ 30 KF	SYJ 506	YSA 206-2FK	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.00 *0,90*
SYJ 35 KF	SYJ 507	YSA 207-2FK	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.75 *1,25*
SYJ 40 KF	SYJ 508	YSA 208-2FK	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.95 *1,80*
SYJ 45 KF	SYJ 509	YSA 209-2FK	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.70 *2,15*
SYJ 45 KF	SYJ 509	YSA 209-2FK	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.65 *2,10*
SYJ 50 KF	SYJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.05 *2,75*
SYJ 50 KF	SYJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.05 *2,75*
SYJ 50 KF	SYJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.05 *2,75*
SYJ 55 KF	SYJ 511	YSA 211-2FK	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.50 *3,85*
SYJ 55 KF	SYJ 511	YSA 211-2FK	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.50 *3,85*
SYJ 60 KF	SYJ 512	YSA 212-2FK	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	11.0 *5,00*

Y-bearing plummer block units with a cast housing and an adapter sleeve, inch shafts
d **2 3/16 – 2 3/8** in



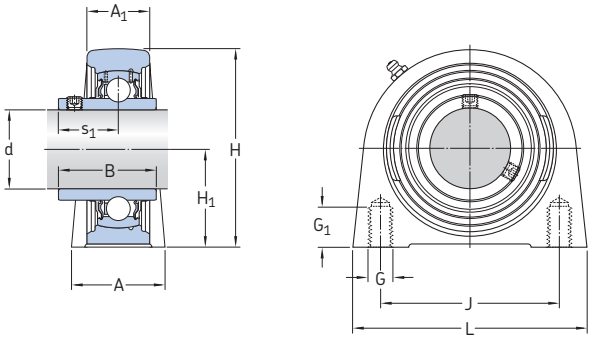
Dimensions													Designations[1]	
													Bearing unit	Adapter sleeve
d	A	A_1	B_1	H	H_1	H_2	J	L	N	N_1	G	s_1		
in/*mm*													–	
2 3/16	2.76	1.93	2.56	5.94	3.00	1.06	7.99	10.43	1.38	0.98	3/4	1.41	**SYJ 65 KF**	**HA 2313**
55,563	*70*	*49*	*65*	*151*	*76,2*	*27*	*203*	*265*	*35*	*25*	*20*	*35,8*		
2 1/4	2.76	1.93	2.56	5.94	3.00	1.06	7.99	10.43	1.38	0.98	3/4	1.41	**SYJ 65 KF**	**HE 2313**
57,15	*70*	*49*	*65*	*151*	*76,2*	*27*	*203*	*265*	*35*	*25*	*20*	*35,8*		
2 3/8	2.76	1.93	2.56	5.94	3.00	1.06	7.99	10.43	1.38	0.98	3/4	1.41	**SYJ 65 KF**	**HS 2313**
60,325	*70*	*49*	*65*	*151*	*76,2*	*27*	*203*	*265*	*35*	*25*	*20*	*35,8*		

[1] Bearing unit and adapter sleeve to be ordered separately

Designations Bearing unit without adapter sleeve	Separate components of the bearing unit Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed**	**Mass** Bearing unit + sleeve
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
SYJ 65 KF	SYJ 513	YSA 213-2FK	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	14.5 *6,55*
SYJ 65 KF	SYJ 513	YSA 213-2FK	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	14.5 *6,55*
SYJ 65 KF	SYJ 513	YSA 213-2FK	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	14.0 *6,35*

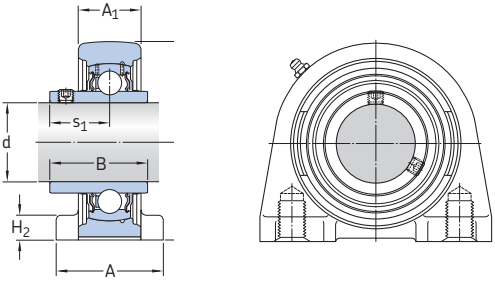
Y-bearing plummer block units with a shortened cast housing and grub screws, metric shafts

d **20 – 50** mm



SYF

Dimensions												Basic load ratings		Fatigue load limit	Limiting speed	Designation
d	A	A_1	B	H	H_1	H_2	J	L	G	G_1	s_1	dynamic C	static C_0	P_u	with shaft tolerance h6	Bearing unit
mm												kN		kN	r/min	–
20	32	21	31	65	33,3	–	50,8	65	M 8	14	18,3	12,7	6,55	0,28	8 500	**SYF 20 TF**
	38	24	31	63	30,2	8	52	76	M 10	12	18,3	12,7	6,55	0,28	8 500	**SYFJ 20 TF**
25	36	22	34,1	70,5	36,5	–	50,8	70	M 10	15	19,8	14	7,8	0,335	7 000	**SYF 25 TF**
	38	25	34,1	73	36,5	10	56	84	M 10	15	19,8	14	7,8	0,335	7 000	**SYFJ 25 TF**
30	40	25	38,1	83	42,9	–	76,2	98	M 10	15	22,2	19,5	11,2	0,475	6 300	**SYF 30 TF**
	48	28,5	38,1	85	42,9	10	66	94	M 14	18	22,2	19,5	11,2	0,475	6 300	**SYFJ 30 TF**
35	45	27	42,9	93	47,6	–	82,6	103	M 10	15	25,4	25,5	15,3	0,655	5 300	**SYF 35 TF**
	48	30,5	42,9	96	47,6	12	80	110	M 14	20	25,4	25,5	15,3	0,655	5 300	**SYFJ 35 TF**
40	48	30	49,2	99	49,2	–	88,9	116	M 12	20	30,2	30,7	19	0,8	4 800	**SYF 40 TF**
	54	31,5	49,2	101	49,2	12	84	116	M 14	20	30,2	30,7	19	0,8	4 800	**SYFJ 40 TF**
45	48	32	49,2	107,5	54	–	95,3	120	M 12	22	30,2	33,2	21,6	0,915	4 300	**SYF 45 TF**
	54	33,5	49,2	109	54,2	12	90	120	M 14	25	30,2	33,2	21,6	0,915	4 300	**SYFJ 45 TF**
50	54	34	51,6	114,5	57,2	–	101,6	135	M 16	25,5	32,6	35,1	23,2	0,98	4 000	**SYF 50 TF**
	60	35,5	51,6	117	57,2	14	94	130	M 16	25	32,6	35,1	23,2	0,98	4 000	**SYFJ 50 TF**

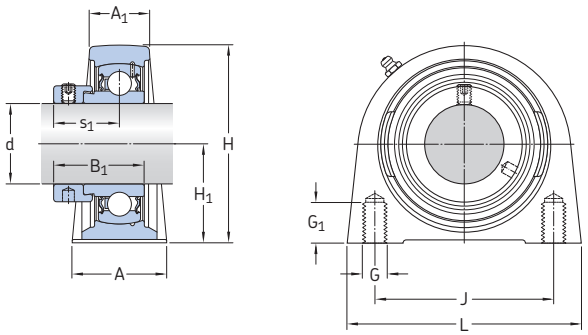


SYFJ

Designations Bearing unit	Separate components Housing	 Bearing	Mass Bearing unit
–			kg
SYF 20 TF	SYF 504	YAR 204-2F	0,43
SYFJ 20 TF	SYFJ 504	YAR 204-2F	0,54
SYF 25 TF	SYF 505	YAR 205-2F	0,52
SYFJ 25 TF	SYFJ 505	YAR 205-2F	0,67
SYF 30 TF	SYF 506	YAR 206-2F	0,90
SYFJ 30 TF	SYFJ 506	YAR 206-2F	1,00
SYF 35 TF	SYF 507	YAR 207-2F	1,20
SYFJ 35 TF	SYFJ 507	YAR 207-2F	1,40
SYF 40 TF	SYF 508	YAR 208-2F	1,50
SYFJ 40 TF	SYFJ 508	YAR 208-2F	1,60
SYF 45 TF	SYF 509	YAR 209-2F	1,80
SYFJ 45 TF	SYFJ 509	YAR 209-2F	1,85
SYF 50 TF	SYF 510	YAR 210-2F	2,20
SYFJ 50 TF	SYFJ 510	YAR 210-2F	2,30

Y-bearing plummer block units with a shortened cast housing and an eccentric locking collar, metric shafts

d **20 – 50** mm

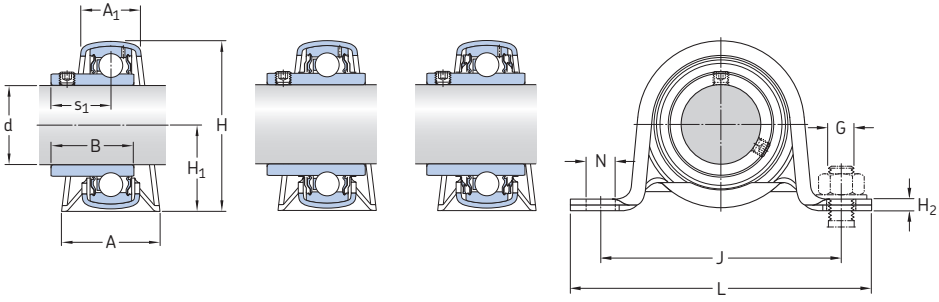


Dimensions											**Basic load ratings** dynamic	static	**Fatigue load limit**	**Limiting speed** with shaft tolerance	**Designation** Bearing unit h6
d	A	A_1	B_1	H	H_1	J	L	G	G_1	s_1	C	C_0	P_u		
mm											kN		kN	r/min	–
20	32	21	31	65	33,3	50,8	65	M 8	14	23,5	12,7	6,55	0,28	8 500	**SYF 20 FM**
25	36	22	31	70,5	36,5	50,8	70	M 10	15	23,5	14	7,8	0,335	7 000	**SYF 25 FM**
30	40	25	35,7	83	42,9	76,2	98	M 10	15	26,7	19,5	11,2	0,475	6 300	**SYF 30 FM**
35	45	27	38,9	93	47,6	82,6	103	M 10	15	29,4	25,5	15,3	0,655	5 300	**SYF 35 FM**
40	48	30	43,7	99	49,2	88,9	116	M 12	20	32,7	30,7	19	0,8	4 800	**SYF 40 FM**
45	48	32	43,7	107,5	54	95,3	120	M 12	22	32,7	33,2	21,6	0,915	4 300	**SYF 45 FM**
50	54	34	43,7	114,5	57,2	101,6	135	M 16	25,5	32,7	35,1	23,2	0,98	4 000	**SYF 50 FM**

Designations			Mass
Bearing unit	Separate components		Bearing unit
	Housing	Bearing	
–			kg
SYF 20 FM	SYF 504	YET 204	0,43
SYF 25 FM	SYF 505	YET 205	0,52
SYF 30 FM	SYF 506	YET 206	0,90
SYF 35 FM	SYF 507	YET 207	1,20
SYF 40 FM	SYF 508	YET 208	1,50
SYF 45 FM	SYF 509	YET 209	1,80
SYF 50 FM	SYF 510	YET 210	2,20

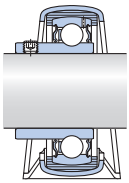
Y-bearing plummer block units with a pressed steel housing and grub screws, metric shafts

d **12 – 35** mm

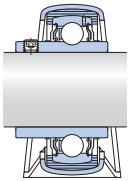


P + YAT P + YAR-2F P + YAR-2RF

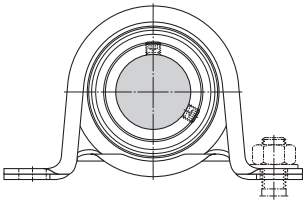
Dimensions												Basic load ratings		Fatigue load limit	Permissible housing load	Designation
												dynamic	static		radial	Bearing unit No order
d	A	A_1	B	H	H_1	H_2	J	L	N	G	s_1	C	C_0	P_u		designation
mm												kN		kN	kN	–
12	26	18	27,4	44	22	3	68	86	9,6	8	15,9	9,56	4,75	0,2	1,25	P 12 TF
	32	21	27,4	50	25,2	3	76	99	9,6	8	15,9	9,56	4,75	0,2	1,7	P 47 R-12 TF
15	26	18	27,4	44	22	3	68	86	9,6	8	15,9	9,56	4,75	0,2	1,25	P 15 TF
	32	21	27,4	50	25,2	3	76	99	9,6	8	15,9	9,56	4,75	0,2	1,7	P 47 R-15 TF
17	26	18	22,1	44	22	3	68	86	9,6	8	15,9	9,56	4,75	0,2	1,25	P 17 RM
	26	18	27,4	44	22	3	68	86	9,6	8	15,9	9,56	4,75	0,2	1,25	P 17 TF
	32	21	22,1	50	25,2	3	76	99	9,6	8	15,9	9,56	4,75	0,2	1,7	P 47 R-17 RM
	32	21	27,4	50	25,2	3	76	99	9,6	8	15,9	9,56	4,75	0,2	1,7	P 47 R-17 TF
20	32	21	25,5	50	25,2	3	76	99	9,6	8	18,3	12,7	6,55	0,28	1,7	P 20 RM
	32	21	31	50	25,2	3	76	99	9,6	8	18,3	12,7	6,55	0,28	1,7	P 20 TF
	32	21	31	50	25,2	3	76	99	9,6	8	18,3	12,7	6,55	0,28	1,7	P 20 TR
	32	24	25,5	56	28,3	3,2	86	108	11,2	10	18,3	12,7	6,55	0,28	1,8	P 52 R-20 RM
	32	24	31	56	28,3	3,2	86	108	11,2	10	18,3	12,7	6,55	0,28	1,8	P 52 R-20 TF
25	32	24	27,2	56	28,3	3,2	86	108	11,2	10	19,5	14	7,8	0,335	1,8	P 25 RM
	32	24	34,1	56	28,3	3,2	86	108	11,2	10	19,8	14	7,8	0,335	1,8	P 25 TF
	32	24	34,1	56	28,3	3,2	86	108	11,2	10	19,8	14	7,8	0,335	1,8	P 25 TR
	38	25	27,2	66	32,9	4	95	119	11,2	10	19,5	14	7,8	0,335	2,6	P 62 R-25 RM
	38	25	34,1	66	32,9	4	95	119	11,2	10	19,8	14	7,8	0,335	2,6	P 62 R-25 TF
30	38	25	30,2	66	32,9	4	95	119	11,2	10	21	19,5	11,2	0,475	2,6	P 30 RM
	38	25	38,1	66	32,9	4	95	119	11,2	10	22,2	19,5	11,2	0,475	2,6	P 30 TF
	38	25	38,1	66	32,9	4	95	119	11,2	10	22,2	19,5	11,2	0,475	2,6	P 30 TR
	41	27	30,2	78	39,2	5	106	130	11,2	10	21	19,5	11,2	0,475	3,3	P 72 R-30 RM
	41	27	38,1	78	39,2	5	106	130	11,2	10	22,2	19,5	11,2	0,475	3,3	P 72 R-30 TF
35	41	27	33	78	39,2	5	106	130	11,2	10	23,3	25,5	15,3	0,655	3,3	P 35 RM
	41	27	42,9	78	39,2	5	106	130	11,2	10	25,4	25,5	15,3	0,655	3,3	P 35 TF
	41	27	42,9	78	39,2	5	106	130	11,2	10	25,4	25,5	15,3	0,655	3,3	P 35 TR
	43	29	33	86	43,5	5	120	148	14	12	23,3	25,5	15,3	0,655	3,8	P 80 R-35 RM
	43	29	42,9	86	43,5	5	120	148	14	12	25,4	25,5	15,3	0,655	3,8	P 80 R-35 TF



P + RIS + YAT



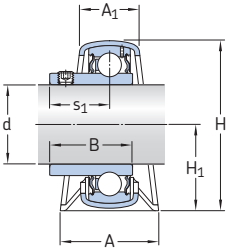
P + RIS + YAR-2F



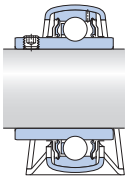
Designation Bearing unit No order designation	**Order designations** Housing	Bearing	Rubber seating ring	**Mass** Bearing unit
–	–			kg
P 12 TF	**P 40**	**YAR 203/12-2F**	**–**	0,18
P 47 R-12 TF	**P 47**	**YAR 203/12-2F**	**RIS 203**	0,22
P 15 TF	**P 40**	**YAR 203/15-2F**	**–**	0,17
P 47 R-15 TF	**P 47**	**YAR 203/15-2F**	**RIS 203**	0,21
P 17 RM	**P 40**	**YAT 203**	**–**	0,15
P 17 TF	**P 40**	**YAR 203-2F**	**–**	0,16
P 47 R-17 RM	**P 47**	**YAT 203**	**RIS 203**	0,19
P 47 R-17 TF	**P 47**	**YAR 203-2F**	**RIS 203**	0,20
P 20 RM	**P 47**	**YAT 204**	**–**	0,19
P 20 TF	**P 47**	**YAR 204-2F**	**–**	0,22
P 20 TR	**P 47**	**YAR 204-2RF**	**–**	0,22
P 52 R-20 RM	**P 52**	**YAT 204**	**RIS 204**	0,23
P 52 R-20 TF	**P 52**	**YAR 204-2F**	**RIS 204**	0,26
P 25 RM	**P 52**	**YAT 205**	**–**	0,24
P 25 TF	**P 52**	**YAR 205-2F**	**–**	0,27
P 25 TR	**P 52**	**YAR 205-2RF**	**–**	0,27
P 62 R-25 RM	**P 62**	**YAT 205**	**RIS 205**	0,35
P 62 R-25 TF	**P 62**	**YAR 205-2F**	**RIS 205**	0,38
P 30 RM	**P 62**	**YAT 206**	**–**	0,42
P 30 TF	**P 62**	**YAR 206-2F**	**–**	0,47
P 30 TR	**P 62**	**YAR 206-2RF**	**–**	0,47
P 72 R-30 RM	**P 72**	**YAT 206**	**RIS 206**	0,53
P 72 R-30 TF	**P 72**	**YAR 206-2F**	**RIS 206**	0,58
P 35 RM	**P 72**	**YAT 207**	**–**	0,57
P 35 TF	**P 72**	**YAR 207-2F**	**–**	0,67
P 35 TR	**P 72**	**YAR 207-2RF**	**–**	0,67
P 80 R-35 RM	**P 80**	**YAT 207**	**RIS 207**	0,64
P 80 R-35 TF	**P 80**	**YAR 207-2F**	**RIS 207**	0,74

Y-bearing plummer block units with a pressed steel housing and grub screws, metric shafts

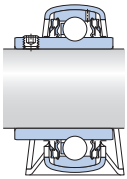
d **40 – 45** mm



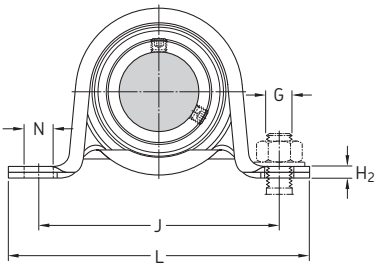
P + YAT



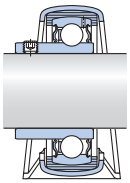
P + YAR-2F



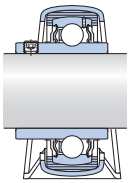
P + YAR-2RF



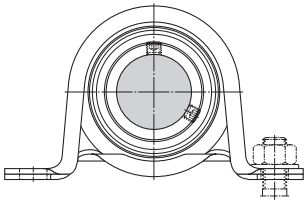
Dimensions												Basic load ratings dynamic	static	Fatigue load limit	Permissible housing load	Designation Bearing unit No order
d	A	A_1	B	H	H_1	H_2	J	L	N	G	s_1	C	C_0	P_u	radial	designation
mm												kN		kN	kN	–
40	43	29	36	86	43,5	5	120	148	14	12	25,3	30,7	19	0,8	3,8	P 40 RM
	43	29	49,2	86	43,5	5	120	148	14	12	30,2	30,7	19	0,8	3,8	P 40 TF
	43	29	49,2	86	43,5	5	120	148	14	12	30,2	30,7	19	0,8	3,8	P 40 TR
	45	31	36	92	46,4	6	128	156	14	12	25,3	30,7	19	0,8	4,2	P 85 R-40 RM
	45	31	49,2	92	46,4	6	128	156	14	12	30,2	30,7	19	0,8	4,2	P 85 R-40 TF
45	45	31	37	92	46,4	6	128	156	14	12	25,8	33,2	21,6	0,915	4,2	P 45 RM
	45	31	49,2	92	46,4	6	128	156	14	12	30,2	33,2	21,6	0,915	4,2	P 45 TF
	45	31	49,2	92	46,4	6	128	156	14	12	30,2	33,2	21,6	0,915	4,2	P 45 TR



P + RIS + YAT

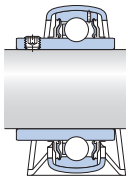


P + RIS + YAR-2F

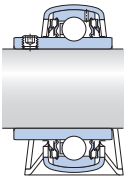


Designation Bearing unit No order designation	**Order designations** Housing	Bearing	Rubber seating ring	**Mass** Bearing unit
–	–			kg
P 40 RM	**P 80**	**YAT 208**	**–**	0,80
P 40 TF	**P 80**	**YAR 208-2F**	**–**	0,92
P 40 TR	**P 80**	**YAR 208-2RF**	**–**	0,92
P 85 R-40 RM	**P 85**	**YAT 208**	**RIS 208**	0,93
P 85 R-40 TF	**P 85**	**YAR 208-2F**	**RIS 208**	1,05
P 45 RM	**P 85**	**YAT 209**	**–**	0,88
P 45 TF	**P 85**	**YAR 209-2F**	**–**	1,00
P 45 TR	**P 85**	**YAR 209-2RF**	**–**	1,00

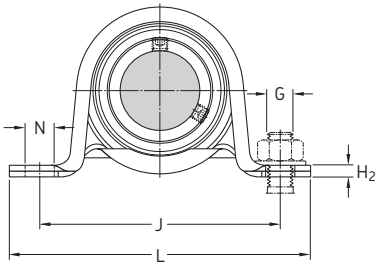
Y-bearing plummer block units with a pressed steel housing and grub screws, inch shafts
d **3/4 – 1 3/4** in



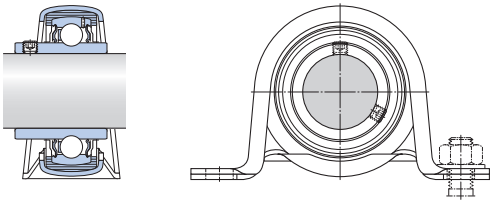
P + YAR-2F



P + YAR-2RF



Dimensions												Designation Bearing unit No order designation
d	A	A_1	B	H	H_1	H_2	J	L	N	G	s_1	
in/*mm*												–
3/4	1.26	0.83	1.22	1.97	0.99	0.12	2.99	3.90	0.38	5/16	0.72	P 3/4 TF
19,05	*32*	*21*	*31*	*50*	*25,2*	*3*	*76*	*99*	*9,6*	*8*	*18,3*	
	1.26	0.83	1.22	1.97	0.99	0.12	2.99	3.90	0.38	5/16	0.72	P 3/4 TR
	32	*21*	*31*	*50*	*25,2*	*3*	*76*	*99*	*9,6*	*8*	*18,3*	
	1.26	0.94	1.22	2.20	1.11	0.13	3.39	4.25	0.44	3/8	0.72	P 52 R-3/4 TF
	32	*24*	*31*	*56*	*28,3*	*3,2*	*86*	*108*	*11,2*	*10*	*18,3*	
1	1.26	0.94	1.34	2.20	1.11	0.13	3.39	4.25	0.44	3/8	0.78	P 1. TF
25,4	*32*	*24*	*34,1*	*56*	*28,3*	*3,2*	*86*	*108*	*11,2*	*10*	*19,8*	
	1.26	0.94	1.34	2.20	1.11	0.13	3.39	4.25	0.44	3/8	0.78	P 1. TR
	32	*24*	*34,1*	*56*	*28,3*	*3,2*	*86*	*108*	*11,2*	*10*	*19,8*	
	1.50	0.98	1.34	2.60	1.30	0.16	3.74	4.69	0.44	3/8	0.78	P 62 R-1. TF
	38	*25*	*34,1*	*66*	*32,9*	*4*	*95*	*119*	*11,2*	*10*	*19,8*	
1 1/4	1.61	1.06	1.69	3.07	1.54	0.20	4.17	5.12	0.44	3/8	1.00	P 1.1/4 TF
31,75	*41*	*27*	*42,9*	*78*	*39,2*	*5*	*106*	*130*	*11,2*	*10*	*25,4*	
	1.61	1.06	1.69	3.07	1.54	0.20	4.17	5.12	0.44	3/8	1.00	P 1.1/4 TR
	41	*27*	*42,9*	*78*	*39,2*	*5*	*106*	*130*	*11,2*	*10*	*25,4*	
	1.69	1.14	1.69	3.39	1.71	0.20	4.72	5.83	0.55	1/2	1.00	P 80 R-1.1/4 TF
	43	*29*	*42,9*	*86*	*43,5*	*5*	*120*	*148*	*14*	*12*	*25,4*	
1 1/2	1.69	1.14	1.94	3.39	1.71	0.20	4.72	5.83	0.55	1/2	1.19	P 1.1/2 TF
38,1	*43*	*29*	*49,2*	*86*	*43,5*	*5*	*120*	*148*	*14*	*12*	*30,2*	
	1.69	1.14	1.94	3.39	1.71	0.20	4.72	5.83	0.55	1/2	1.19	P 1.1/2 TR
	43	*29*	*49,2*	*86*	*43,5*	*5*	*120*	*148*	*14*	*12*	*30,2*	
	1.77	1.22	1.94	3.62	1.83	0.24	5.04	6.14	0.55	1/2	1.19	P 85 R-1.1/2 TF
	45	*31*	*49,2*	*92*	*46,4*	*6*	*128*	*156*	*14*	*12*	*30,2*	
1 3/4	1.77	1.22	1.94	3.62	1.83	0.24	5.04	6.14	0.55	1/2	1.19	P 1.3/4 TF
44,45	*45*	*31*	*49,2*	*92*	*46,4*	*6*	*128*	*156*	*14*	*12*	*30,2*	
	1.77	1.22	1.94	3.62	1.83	0.24	5.04	6.14	0.55	1/2	1.19	P 1.3/4 TR
	45	*31*	*49,2*	*92*	*46,4*	*6*	*128*	*156*	*14*	*12*	*30,2*	

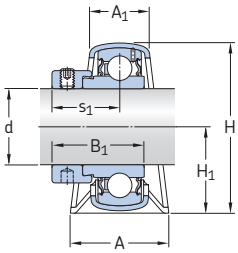


P + RIS + YAR-2F

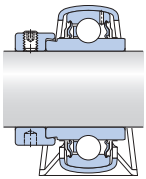
Designation Bearing unit No order designation	**Order designations** Housing	Bearing	Rubber seating ring	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Permissible housing load** radial	**Mass** Bearing unit
–	–			lbf/*kN*		lbf/*kN*	lbf/*kN*	lb/*kg*
P 3/4 TF	**P 47**	**YAR 204-012-2F**	**–**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	380 *1,7*	0.51 *0,23*
P 3/4 TR	**P 47**	**YAR 204-012-2RF**	**–**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	380 *1,7*	0.51 *0,23*
P 52 R-3/4 TF	**P 52**	**YAR 204-012-2F**	**RIS 204**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	410 *1,8*	0.60 *0,27*
P 1. TF	**P 52**	**YAR 205-100-2F**	**–**	3 150 *14*	1 760 *7,8*	80 *0,335*	410 *1,8*	0.60 *0,27*
P 1. TR	**P 52**	**YAR 205-100-2RF**	**–**	3 150 *14*	1 760 *7,8*	80 *0,335*	410 *1,8*	0.60 *0,27*
P 62 R-1. TF	**P 62**	**YAR 205-100-2F**	**RIS 205**	3 150 *14*	1 760 *7,8*	80 *0,335*	590 *2,6*	0.84 *0,38*
P 1.1/4 TF	**P 72**	**YAR 207-104-2F**	**–**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	740 *3,3*	1.61 *0,73*
P 1.1/4 TR	**P 72**	**YAR 207-104-2RF**	**–**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	740 *3,3*	1.61 *0,73*
P 80 R-1.1/4 TF	**P 80**	**YAR 207-104-2F**	**RIS 207**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	860 *3,8*	1.92 *0,87*
P 1.1/2 TF	**P 80**	**YAR 208-108-2F**	**–**	6 910 *30,7*	4 280 *19*	180 *0,8*	860 *3,8*	2.14 *0,97*
P 1.1/2 TR	**P 80**	**YAR 208-108-2RF**	**–**	6 910 *30,7*	4 280 *19*	180 *0,8*	860 *3,8*	2.14 *0,97*
P 85 R-1.1/2 TF	**P 85**	**YAR 208-108-2F**	**RIS 208**	6 910 *30,7*	4 280 *19*	180 *0,8*	950 *4,2*	2.45 *1,10*
P 1.3/4 TF	**P 85**	**YAR 209-112-2F**	**–**	7 470 *33,2*	4 860 *21,6*	210 *0,915*	950 *4,2*	2.25 *1,00*
P 1.3/4 TR	**P 85**	**YAR 209-112-2RF**	**–**	7 470 *33,2*	4 860 *21,6*	210 *0,915*	950 *4,2*	2.25 *1,00*

Y-bearing plummer block units with a pressed steel housing and an eccentric locking collar, metric shafts

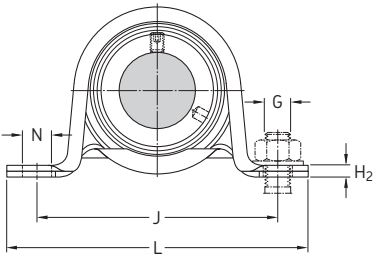
d **15 – 45** mm



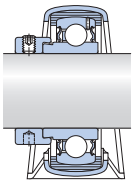
P + YET



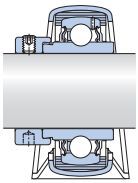
P + YEL-2F



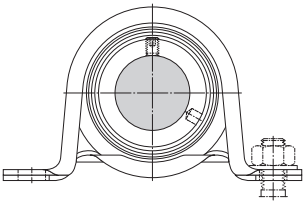
Dimensions												Basic load ratings		Fatigue load limit	Permissible housing load	Designation
												dynamic	static			Bearing unit
d	A	A_1	B_1	H	H_1	H_2	J	L	N	G	s_1	C	C_0	P_u	radial	No order designation
mm												kN		kN	kN	–
15	26	18	28,6	44	22	3	68	86	9,6	8	22,1	9,56	4,75	0,2	1,25	P 15 FM
	32	21	28,6	50	25,2	3	76	99	9,6	8	22,1	9,56	4,75	0,2	1,7	P 47 R-15 FM
17	26	18	28,6	44	22	3	68	86	9,6	8	22,1	9,56	4,75	0,2	1,25	P 17 FM
	32	21	28,6	50	25,2	3	76	99	9,6	8	22,1	9,56	4,75	0,2	1,7	P 47 R-17 FM
20	32	21	31	50	25,2	3	76	99	9,6	8	23,5	12,7	6,55	0,28	1,7	P 20 FM
	32	21	43,7	50	25,2	3	76	99	9,6	8	26,6	12,7	6,55	0,28	1,7	P 20 WF
	32	24	31	56	28,3	3,2	86	108	11,2	10	23,5	12,7	6,55	0,28	1,8	P 52 R-20 FM
	32	24	43,7	56	28,3	3,2	86	108	11,2	10	26,6	12,7	6,55	0,28	1,8	P 52 R-20 WF
25	32	24	31	56	28,3	3,2	86	108	11,2	10	23,5	14	7,8	0,335	1,8	P 25 FM
	32	24	44,4	56	28,3	3,2	86	108	11,2	10	26,9	14	7,8	0,335	1,8	P 25 WF
	38	25	31	66	32,9	4	95	119	11,2	10	23,5	14	7,8	0,335	2,6	P 62 R-25 FM
	38	25	44,4	66	32,9	4	95	119	11,2	10	26,9	14	7,8	0,335	2,6	P 62 R-25 WF
30	38	25	35,7	66	32,9	4	95	119	11,2	10	26,7	19,5	11,2	0,475	2,6	P 30 FM
	38	25	48,4	66	32,9	4	95	119	11,2	10	30,1	19,5	11,2	0,475	2,6	P 30 WF
	41	27	35,7	78	39,2	5	106	130	11,2	10	26,7	19,5	11,2	0,475	3,3	P 72 R-30 FM
	41	27	48,4	78	39,2	5	106	130	11,2	10	30,1	19,5	11,2	0,475	3,3	P 72 R-30 WF
35	41	27	38,9	78	39,2	5	106	130	11,2	10	29,4	25,5	15,3	0,655	3,3	P 35 FM
	41	27	51,1	78	39,2	5	106	130	11,2	10	32,3	25,5	15,3	0,655	3,3	P 35 WF
	43	29	38,9	86	43,5	5	120	148	14	12	29,4	25,5	15,3	0,655	3,8	P 80 R-35 FM
	43	29	51,1	86	43,5	5	120	148	14	12	32,3	25,5	15,3	0,655	3,8	P 80 R-35 WF
40	43	29	43,7	86	43,5	5	120	148	14	12	32,7	30,7	19	0,8	3,8	P 40 FM
	43	29	56,3	86	43,5	5	120	148	14	12	34,9	30,7	19	0,8	3,8	P 40 WF
	45	31	43,7	92	46,4	6	128	156	14	12	32,7	30,7	19	0,8	4,2	P 85 R-40 FM
	45	31	56,3	92	46,4	6	128	156	14	12	34,9	30,7	19	0,8	4,2	P 85 R-40 WF
45	45	31	43,7	92	46,4	6	128	156	14	12	32,7	33,2	21,6	0,915	4,2	P 45 FM
	45	31	56,3	92	46,4	6	128	156	14	12	34,9	33,2	21,6	0,915	4,2	P 45 WF



P + RIS + YET



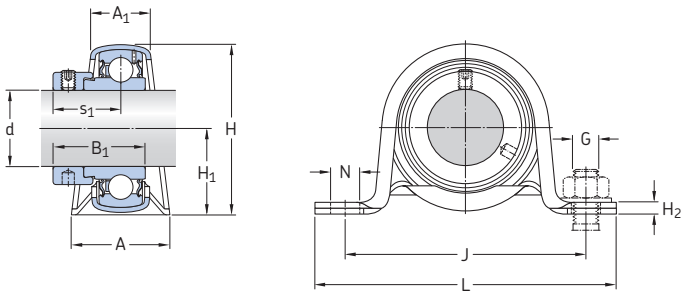
P + RIS + YEL-2F



Designation Bearing unit No order designation	**Order designations** Housing	Bearing	Rubber seating ring	**Mass** Bearing unit
–	–			kg
P 15 FM	**P 40**	**YET 203/15**	**–**	0,18
P 47 R-15 FM	**P 47**	**YET 203/15**	**RIS 203**	0,23
P 17 FM	**P 40**	**YET 203**	**–**	0,18
P 47 R-17 FM	**P 47**	**YET 203**	**RIS 203**	0,22
P 20 FM	**P 47**	**YET 204**	**–**	0,24
P 20 WF	**P 47**	**YEL 204-2F**	**–**	0,27
P 52 R-20 FM	**P 52**	**YET 204**	**RIS 204**	0,28
P 52 R-20 WF	**P 52**	**YEL 204-2F**	**RIS 204**	0,31
P 25 FM	**P 52**	**YET 205**	**–**	0,28
P 25 WF	**P 52**	**YEL 205-2F**	**–**	0,33
P 62 R-25 FM	**P 62**	**YET 205**	**RIS 205**	0,39
P 62 R-25 WF	**P 62**	**YEL 205-2F**	**RIS 205**	0,44
P 30 FM	**P 62**	**YET 206**	**–**	0,45
P 30 WF	**P 62**	**YEL 206-2F**	**–**	0,41
P 72 R-30 FM	**P 72**	**YET 206**	**RIS 206 A**	0,60
P 72 R-30 WF	**P 72**	**YEL 206-2F**	**RIS 206 A**	0,66
P 35 FM	**P 72**	**YET 207**	**–**	0,75
P 35 WF	**P 72**	**YEL 207-2F**	**–**	0,83
P 80 R-35 FM	**P 80**	**YET 207**	**RIS 207 A**	0,82
P 80 R-35 WF	**P 80**	**YEL 207-2F**	**RIS 207 A**	0,90
P 40 FM	**P 80**	**YET 208**	**–**	0,99
P 40 WF	**P 80**	**YEL 208-2F**	**–**	1,05
P 85 R-40 FM	**P 85**	**YET 208**	**RIS 208 A**	1,10
P 85 R 40 WF	**P 85**	**YEL 208-2F**	**RIS 208 A**	1,20
P 45 FM	**P 85**	**YET 209**	**–**	1,05
P 45 WF	**P 85**	**YEL 209-2F**	**–**	1,15

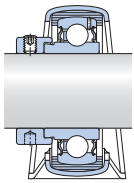
Y-bearing plummer block units with a pressed steel housing and an eccentric locking collar, inch shafts

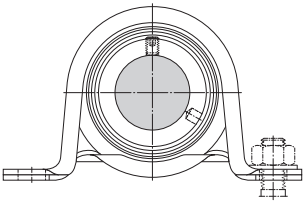
d **3/4 – 1 1/2** in



P + YET

Dimensions												Designation Bearing unit No order designation
d	A	A_1	B_1	H	H_1	H_2	J	L	N	G	s_1	
in/*mm*												–
3/4	1.26	0.83	1.22	1.97	0.99	0.12	2.99	3.90	0.38	5/16	0.93	P 3/4 FM
19,05	*32*	*21*	*31*	*50*	*25,2*	*3*	*76*	*99*	*9,6*	*8*	*23,5*	
	1.26	0.94	1.22	2.20	1.11	0.13	3.39	4.25	0.44	3/8	0.93	P 52 R-3/4 FM
	32	*24*	*31*	*56*	*28,3*	*3,2*	*86*	*108*	*11,2*	*10*	*23,5*	
1	1.26	0.94	1.22	2.20	1.11	0.13	3.39	4.25	0.44	3/8	0.93	P 1. FM
25,4	*32*	*24*	*31*	*56*	*28,3*	*3,2*	*86*	*108*	*11,2*	*10*	*23,5*	
	1.50	0.98	1.22	2.60	1.30	0.16	3.74	4.69	0.44	3/8	0.93	P 62 R-1. FM
	38	*25*	*31*	*66*	*32,9*	*4*	*95*	*119*	*11,2*	*10*	*23,5*	
1 1/2	1.69	1.14	1.72	3.39	1.71	0.20	4.72	5.83	0.55	1/2	1.29	P 1.1/2 FM
38,1	*43*	*29*	*43,7*	*86*	*43,5*	*5*	*120*	*148*	*14*	*12*	*32,7*	
	1.77	1.22	1.72	3.62	1.83	0.24	5.04	6.14	0.55	1/2	1.29	P 85 R-1.1/2 FM
	45	*31*	*43,7*	*92*	*46,4*	*6*	*128*	*156*	*14*	*12*	*32,7*	





P + RIS + YET

Designation Bearing unit No order designation	**Order designations** Housing	Bearing	Rubber seating ring	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Permissible housing load** radial	**Mass** Bearing unit
–	–			lbf/*kN*		lbf/*kN*	lbf/*kN*	lb/*kg*
P 3/4 FM	**P 47**	**YET 204-012**	**–**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	380 *1,7*	0.57 *0,26*
P 52 R-3/4 FM	**P 52**	**YET 204-012**	**RIS 204**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	410 *1,8*	0.66 *0,30*
P 1. FM	**P 52**	**YET 205-100**	**–**	3 150 *14*	1 760 *7,8*	80 *0,335*	410 *1,8*	0.62 *0,28*
P 62 R-1. FM	**P 62**	**YET 205-100**	**RIS 205**	3 150 *14*	1 760 *7,8*	80 *0,335*	590 *2,6*	0.86 *0,39*
P 1.1/2 FM	**P 80**	**YET 208-108**	**–**	6 910 *30,7*	4 280 *19*	180 *0,8*	860 *3,8*	2.25 *1,00*
P 85 R-1.1/2 FM	**P 85**	**YET 208-108**	**RIS 208 A**	6 910 *30,7*	4 280 *19*	180 *0,8*	950 *4,2*	2.55 *1,15*


SKF

Flanged Y-bearing units

Designs

SKF flanged Y-bearing units are available as standard in a wide variety of designs. The standard assortment includes flanged Y-bearing units with housings made of:

- composite material (→ **fig. 1**)
- grey cast iron (→ **fig. 2**)
- pressed sheet steel (→ **fig. 3**)

They are located on the shaft via the inner ring of the insert bearing with either:

- grub (set) screws
- an eccentric locking collar
- an adapter sleeve

The Y-bearing can be sealed with either:

- the standard integral seal
- the standard integral seal and an additional flinger
- the highly efficient multiple seal

For additional information about Y-bearings, refer to the section *Y-bearings*, starting on **page79**.

Flanged Y-bearing units available from stock are listed in the product tables. Other units can be assembled by ordering the parts separately. The tables on **pages 168** to **169** show the wide variety of combinations of Y-bearings and flanged housings.

Fig. 1

Fig. 2

Fig. 3

Flanged Y-TECH units

Flanged Y-TECH units have housings made of composite material. They were developed for bearing arrangements that must operate reliably in difficult environments for extended periods without maintenance. There are two standard series available:

- FYK series (→ **fig. 4**) with a square flange and four bolt holes
- FYTBK series (→ **fig. 5**) with an oval flange and two bolt holes

For additional information about Y-TECH flanged units for the food industry, refer to **page 252**.

Flanged Y-TECH units in the FYK series are fitted with Y-bearings in the:

- YAR 2-2F series, unit designation suffix TF
- YAR 2-2RF series, unit designation suffix TR

These units, which are attached to the shaft with grub screws, are in the standard SKF assortment.

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Flanged Y-bearing units with a cast housing

Flanged Y-bearing units with a cast housing can be relubricated through a grease fitting in the housing. This makes them especially suitable for bearing arrangements that operate under any of the following conditions:

- high levels of contamination
- high speeds
- high temperatures
- relatively heavy loads

Three different housing designs are available:

- FY and FYJ series with a square flange and four holes for attachment bolts (→ **fig. 6**)
- FYC series with a round flange and four holes for attachment bolts (→ **fig. 7**)
- FYT, FYTB and FYTJ series with an oval flange and two holes for attachment bolts (→ **fig. 8**).

Flanged Y-bearing units with a pressed steel housing

Flanged Y-bearing units with a pressed steel housing are designed for simple applications with limited loads and speeds. The two-part housing, which has no provision for relubrication, is ordered separately from the insert bearing, making a large number of combinations possible.

The flanged housings made of pressed steel are available in three different series:

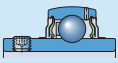
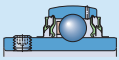
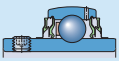
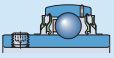
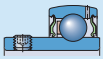
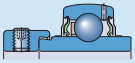
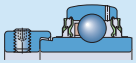
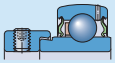
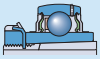
- PF series with a round flange and three or four square holes for attachment bolts (→ **fig. 9**)
- PFD series with a triangular flange and three square holes for attachment bolts (→ **fig. 10**)
- PFT series with an oval flange and two square holes for attachment bolts (→ **fig. 11**).

Fig. 9

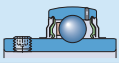
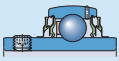
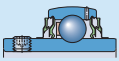
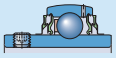
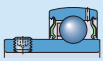
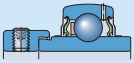
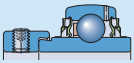
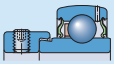
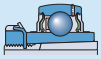
Fig. 10

Fig. 11

Flanged Y-bearing units

Flanged Y-bearing unit	Housings of composite material		Cast housings			
						
Y-bearings	**FYK 5(00)**	**FYTBK 5(00)**	**FY 5(00)**	**FYJ 5(00)**	**FYM 5(00)**	**FYT 5(00)**
YAR 2-2F 	**FYK .. TF** 20–40 mm 3/4–1 1/2 in.[1]	**FYTBK .. TF** 20–35 mm 3/4–1 1/4 in.[1]	**FY .. TF** 12–65 mm 1/2–2 15/16 in.	**FYJ .. TF** 20–100 mm 3/4–2 1/2 in.[1]	**FYM .. TF** 1 7/16–3 in.	**FYT .. TF** 1/2–2 3/16 in.
YAR 2-2RF 	**FYK .. TR** 20–40 mm 3/4–1 1/2 in.[1]	**FYTBK .. TR** 20–35 mm 3/4–1 1/4 in.[1]	**FY .. TR** 20–60 mm 3/4–2 1/2 in.[1]	20–60 mm[1] 3/4–2 1/2 in.[1]	–	–
YAR 2-2RF/HV 	20–40 mm[1] 3/4–1 1/2 in.[1]	20–35 mm[1] 3/4–1 7/16 in.[1]	20–50 mm 3/4–1 15/16 in.	20–50 mm 3/4–1 15/16 in.	–	–
YAR 2-2RF/ VE495 	20–40 mm[1]	20–35 mm[1]	20–50 mm	20–50 mm	–	–
YAT 2 	20–40 mm[1]	20–35 mm[1]	17–50 mm[1]	20–50 mm[1]	–	**FYT .. RM** 1/2–2 3/16 in.
YEL 2-2F 	20–40 mm[1]	20–35 mm[1]	**FY .. WF** 20–60 mm 1 –2 7/16 in.	20–50 mm[1]	–	–
YEL 2-2RF/ VL065 	20–40 mm[1]	20–35 mm[1]	20–40 mm[1]	20–40 mm[1]	–	–
YET 2 	20–40 mm[1] 3/4–1 1/2 in.[1]	20–35 mm[1] 3/4–1 7/16 in.[1]	**FY .. FM** 15–60 mm 3/4–2 3/16 in.	20–60 mm[1] 3/4–1 1/2 in.[1]	–	**FYT .. FM** 1/2–2 3/16 in.
YSA 2-2FK on adapter sleeve 	20–35 mm[1] 3/4–1 1/4 in.[1]	20–30 mm[1] 3/4–1 3/16 in.[1]	20–60 mm[1] 3/4–2 3/8 in.[1]	**FYJ .. KF** 20–60 mm 3/4–2 3/8 in.	–	–
17262(00) 	20–40 mm[1]	20–35 mm[1]	17–60 mm[1]	20–60 mm[1]	–	–

[1] Parts must be ordered separately.

Flanged Y-bearing unit 	Cast housings			Pressed steel housings		
						
Y-bearings	**FYTB 5(00)**	**FYTJ 5(00)**	**FYC 5(00)**	**PF**	**PFD**	**PFT**
YAR 2-2F 	**FYTB .. TF** 12–50 mm 3/4–1 3/4 in.	**FYTJ .. TF** 20–50 mm 3/4–1 3/4 in.	**FYC .. TF** 20–65 mm 3/4–2 1/2 in.[1]	12–50 mm[1] 3/4–1 3/4 in.[1]	12–40 mm[1] 3/4–1 1/2 in.[1]	12–40 mm[1] 3/4–1 1/2 in.[1]
YAR 2-2RF 	**FYTB .. TR** 20–50 mm 3/4–1 3/4 in.[1]	20–50 mm[1] 3/4–1 3/4 in.[1]	20–65 mm[1] 3/4–2 1/2 in.[1]	20–35 mm[1] 3/4–1 3/4 in.[1]	20–40 mm[1] 3/4–1 1/2 in.[1]	20–40 mm[1] 3/4–1 1/2 in.[1]
YAR 2-2RF/HV 	20–50 mm 3/4–1 15/16 in.	20–50 mm 3/4–1 15/16 in.	20–50 mm 3/4–1 15/16 in.	20–50 mm 3/4–1 15/16 in.	20–40 mm[1] 3/4–1 1/2 in.[1]	20–40 mm[1] 3/4–1 1/2 in.[1]
YAR 2-2RF/ VE495 	20–50 mm	20–50 mm	20–50 mm	20–50 mm	20–40 mm[1]	20–40 mm[1]
YAT 2 	17–50 mm[1]	20–50 mm[1]	20–50 mm[1]	17–50 mm[1] 5/8–1 15/16 in.[1]	17–40 mm[1] 5/8–1 1/2 in.[1]	17–40 mm[1] 5/8–1 1/2 in.[1]
YEL 2-2F 	**FYTB .. WF** 20–50 mm	20–50 mm[1]	20–60 mm[1]	20–50 mm[1] 1/2–1 15/16 in.[1]	20–40 mm[1] 1/2–1 1/2 in.[1]	20–40 mm[1] 1/2–1 1/2 in.[1]
YEL 2-2RF/ VL065 	20–40 mm[1]	20–40 mm[1]	20–40 mm[1]	20–40 mm[1]	20–40 mm[1]	20–40 mm[1]
YET 2 	**FYTB .. FM** 15–50 mm 3/4–1 1/2 in.[1]	20–50 mm[1] 3/4–1 1/2 in.[1]	20–40 mm[1] 3/4–1 1/2 in.[1]	15–50 mm[1] 3/4–1 3/4 in.[1]	15–40 mm[1] 3/4–1 1/2 in.[1]	15–40 mm[1] 3/4–1 1/2 in.[1]
YSA 2-2FK on adapter sleeve 	20–45 mm[1] 3/4–1 3/4 in.[1]	**FYTJ .. KF** 20–45 mm 3/4–1 3/4 in.	20–60 mm[1] 3/4–2 3/8 in.[1]	20–45 mm[1] 3/4–1 3/4 in.[1]	20–35 mm[1] 3/4–1 3/4 in.[1]	20–35 mm[1] 3/4–1 3/4 in.[1]
17262(00) 	17–50 mm[1]	20–50 mm[1]	20–60 mm[1]	17–50 mm[1]	17–40 mm[1]	17–40 mm[1]

[1] Parts must be ordered separately.

Data – general

Dimensions

The boundary dimensions for most flanged Y-bearing housings are in accordance with the following standards:

- Housings in the FY, FYT and FYTB series are in accordance with ISO 3228:1993.
- Housings in the FYJ, FYTJ and FYC series are in accordance with JIS B 1559-1995.
- Housings in the PF, PFD and PFT series are in accordance with ISO 3228:1993.

Tolerances

For flanged Y-bearing units with a cast housing, the tolerance for the total width T of the unit (→ **fig. 12**) is:

- ±0,5 mm for units up to and including 50 mm bore diameter
- ±0,6 mm for larger units

For flanged Y-bearing units with housings made of composite material or grey cast iron, the outside diameter of the bearing is matched to the diameter of the housing bore so that the outer ring is prevented from turning in its seat, but still able to compensate for misalignment.

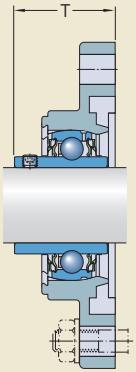
Additional information about tolerances for the inner ring bore are listed in the section *Y-bearings* on **page 89**.

Radial internal clearance

The Y-bearing used in a flanged Y-bearing unit has the same radial internal clearance as a similarly sized individual Y-bearing.

Additional information about the radial internal clearance can be found in the section *Y-bearings* on **page 90**.

Fig. 12



Materials

Composite housings
These housings are made of injection moulded glass fibre reinforced polyamide 6. A steel coil embedded in the housing adds greater stability to the form of the housing, even if temperatures are elevated.

The bolt holes for housings in the FYK and FYTBK series are reinforced with zinc-plated sheet steel inserts. The standard housing colour is black.

Cast housings
Cast housings are manufactured from grey cast iron EN-GJL HB195 in accordance with EN 1561:1997.

Pressed steel housings
Pressed steel housings are made from cold-rolled steel and are zinc-coated for corrosion protection.

Load carrying ability of the housings

Housings made of either composite material or grey cast iron are able to withstand the same dynamic and static loads as the Y-bearings they incorporate. These Y-bearing units can also be used for applications where shock loads or variable axial loads occur.

If SKF Y-bearing units are to be used in an application where health, safety, or the environment is at risk, contact the SKF application engineering service during the design phase.

Pressed steel housings have a lower load carrying capacity than their insert bearings. Permissible radial loads are specified in the product tables. The axial load should not exceed 20% of the permissible radial load.

If the Y-bearing units will be subjected to shock loads or variable axial loads, a grey cast iron or Y-TECH housing should always be used.

Flanged composite housings and most grey cast iron housings have a recess (→ **fig. 13a**), or shoulder (→ **fig. 13b**) at the back for accurate positioning, either on an appropriate shoulder or in a bore in the machine wall.

An appropriate shoulder can be provided by one of the following methods:

- machining the wall accordingly (→ **fig. 13c**)
- attaching an appropriate washer to the wall by several screws (→ **fig. 13d**)

Furthermore, these features relieve the attachment bolts of radial forces.

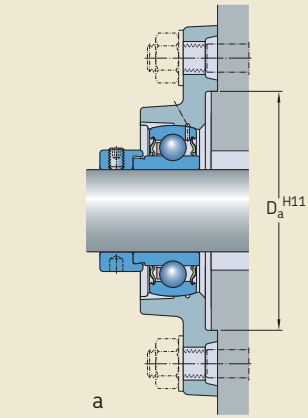
Attaching to a support surface

Flanged Y-bearing units have two, three or four bolt holes through which they can be attached to their support surface with threaded fasteners. These bolt holes are:

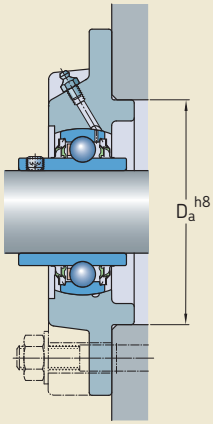
- round and reinforced with pressed steel inserts in composite housings
- drilled and round in cast housings
- square in pressed steel housings

In the absence of a centring shoulder and when heavy loads apply, SKF recommends doweling the housing to its support surface. Dimples for the dowel pin holes are cast into housings in the FY, FYJ, FYTB and FYTJ series. Information on the position and size of the holes for these dowel pins is provided in **table 1**, **page 172**.

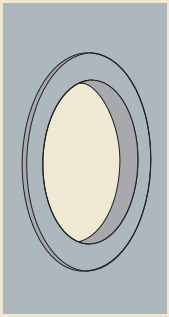
Fig. 13



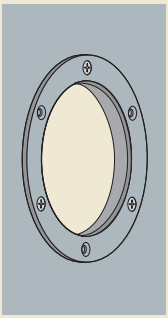
a



b



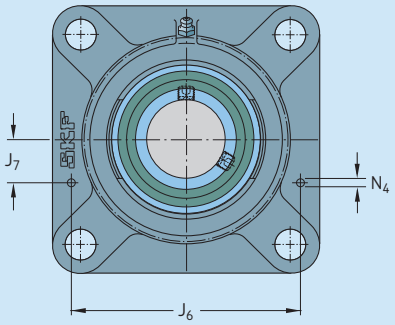
c

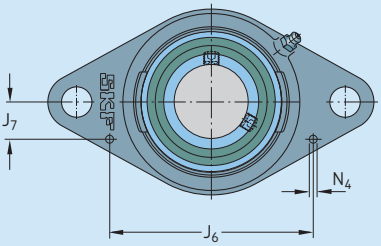


d

Table 1

Position and size of dowel pin holes for flanged Y-bearing housings made of grey cast iron





Housing size	Dimensions for housings in the FY, FYJ series			FYT, FYTB, FYTJ series		
	J_6	J_7	N_4	J_6	J_7	N_4
–	mm					
503	66	12	4	61,5	11	2
504	74	16	4	74	11,5	2
505	83	19	4	81	12	4
506	96	24,5	4	99	12,5	4
507	106	29	4	106	15	5
508	118	34	4	116	16	6
509	123	33,5	5	120	18	6
510	129	35,5	5	127	20	6
511	148	45	5	154	18	6
512	161	49,5	5	–	–	–
513	169	51	6	–	–	–
514	169	49	8	–	–	–
515	176	51,5	8	–	–	–
516	184	51,5	8	–	–	–
518	207	52,5	8	–	–	–
520	233	55	8	–	–	–

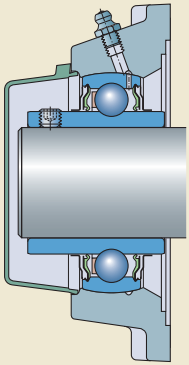
End covers

To protect the shaft ends and avoid any accidents, end covers are available for flanged Y-TECH units and most flanged Y-bearing units with a cast housing (→ **fig. 14**).

In the product tables, end covers in the ECY 2 series are shown together with the appropriate bearing unit. The designation of the end cover is listed together with the distance that the end cover protrudes from the housing.

For additional information about end covers, refer to the section *Design of Y-bearing arrangements*, on **page 47**.

Fig. 14



Grease fills

All standard SKF flanged Y-bearing units are filled with a high-quality long-lasting grease containing a lithium-calcium thickener that has a consistency of 2 on the NLGI scale.

For additional information about lubricants and lubrication, refer to the section *Lubrication and maintenance*, starting on **page 48**.

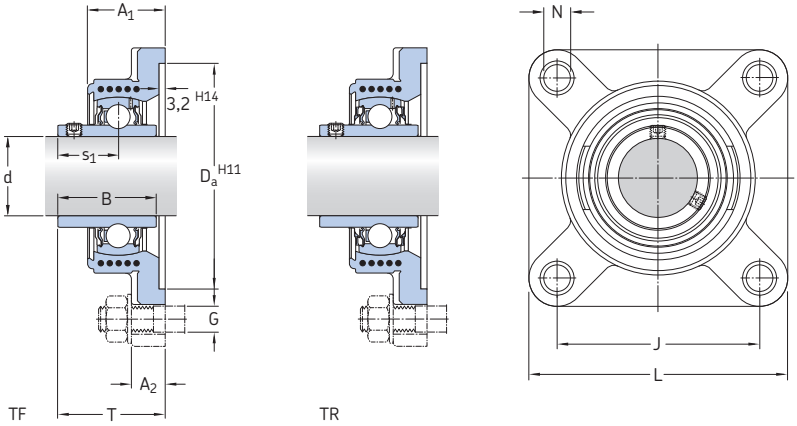
Mounting

The procedure for mounting a flanged Y-bearing unit depends on:

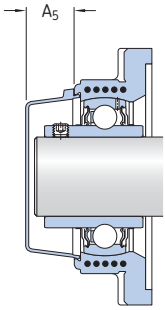
- the design of the housing
- the method used to attach the unit to the shaft

These methods are described in detail in the section *Mounting instructions*, starting on **page 52**.

Flanged Y-TECH units with a housing with a square flange and grub screws, metric shafts
d **20 – 40** mm

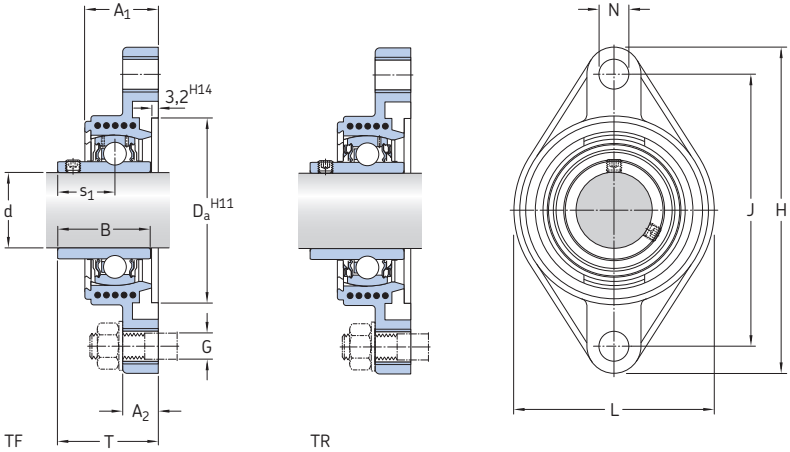


Dimensions											Basic load ratings		Fatigue load limit	Limiting speed	Designation
											dynamic	static		with shaft tolerance h6	Bearing unit
d	A_1	A_2	B	D_a	J	L	N	G	s_1	T	C	C_0	P_u		
mm											kN		kN	r/min	–
20	30	15	31	68,3	63,5	86	12	10	18,3	37,3	12,7	6,55	0,28	8 500	**FYK 20 TF**
	30	15	31	68,3	63,5	86	12	10	18,3	37,3	12,7	6,55	0,28	5 000	**FYK 20 TR**
25	31	15	34,1	74,6	70	95	12	10	19,8	38,8	14	7,8	0,335	7 000	**FYK 25 TF**
	31	15	34,1	74,6	70	95	12	10	19,8	38,8	14	7,8	0,335	4 300	**FYK 25 TR**
30	33	15,3	38,1	93,7	82,5	108	12	10	22,2	42,2	19,5	11,2	0,475	6 300	**FYK 30 TF**
	33	15,3	38,1	93,7	82,5	108	12	10	22,2	42,2	19,5	11,2	0,475	3 800	**FYK 30 TR**
35	35	17	42,9	106,4	92	118	14,5	12	25,4	46,4	25,5	15,3	0,655	5 300	**FYK 35 TF**
	35	17	42,9	106,4	92	118	14,5	12	25,4	46,4	25,5	15,3	0,655	3 200	**FYK 35 TR**
40	39	17	49,2	115,9	101,5	130	14,5	12	30,2	54,2	30,7	19	0,8	4 800	**FYK 40 TF**
	39	17	49,2	115,9	101,5	130	14,5	12	30,2	54,2	30,7	19	0,8	2 800	**FYK 40 TR**

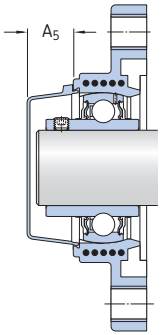


Designations			**Mass**	**Appropriate end cover**	
Bearing unit	Separate components		Bearing unit	Designation	Dimension
	Housing	Bearing			A_5
–			kg	–	mm
FYK 20 TF	FYK 504	YAR 204-2F	0,26	ECY 204	18,5
FYK 20 TR	FYK 504	YAR 204-2RF	0,26	ECY 204	18,5
FYK 25 TF	FYK 505	YAR 205-2F	0,33	ECY 205	18
FYK 25 TR	FYK 505	YAR 205-2RF	0,33	ECY 205	18
FYK 30 TF	FYK 506	YAR 206-2F	0,48	ECY 206	20
FYK 30 TR	FYK 506	YAR 206-2RF	0,48	ECY 206	20
FYK 35 TF	FYK 507	YAR 207-2F	0,66	ECY 207	22
FYK 35 TR	FYK 507	YAR 207-2RF	0,66	ECY 207	22
FYK 40 TF	FYK 508	YAR 208-2F	0,87	ECY 208	23,5
FYK 40 TR	FYK 508	YAR 208-2RF	0,87	ECY 208	23,5

Flanged Y-TECH units with a housing with an oval flange and grub screws, metric shafts
d **20 – 35** mm



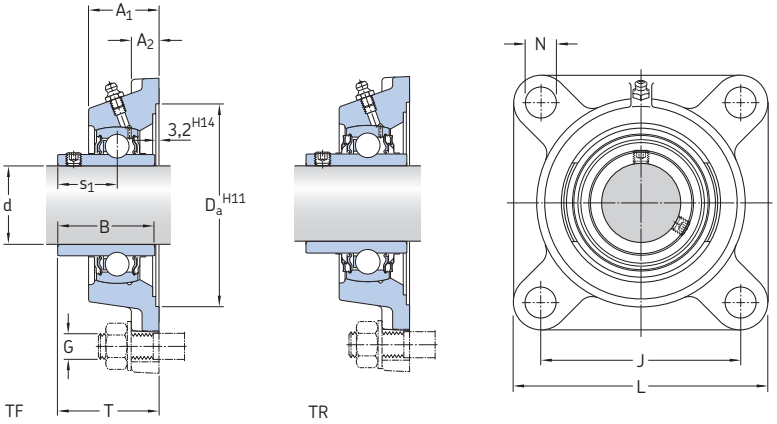
Dimensions												Basic load ratings		Fatigue load limit	Limiting speed	Designation
												dynamic	static		with shaft tolerance	Bearing unit
d	A_1	A_2	B	D_a	H	J	L	N	G	s_1	T	C	C_0	P_u	h6	
mm												kN		kN	r/min	–
20	29,5	15	31	50,8	112	90	60,5	12	10	18,3	37,3	12,7	6,55	0,28	8 500	**FYTBK 20 TF**
	29,5	15	31	50,8	112	90	60,5	12	10	18,3	37,3	12,7	6,55	0,28	5 000	**FYTBK 20 TR**
25	30	15	34,1	63,5	124	99	70	12	10	19,8	38,8	14	7,8	0,335	7 000	**FYTBK 25 TF**
	30	15	34,1	63,5	124	99	70	12	10	19,8	38,8	14	7,8	0,335	4 300	**FYTBK 25 TR**
30	33	15	38,1	76,2	142,5	116,5	83	12	10	22,2	42,2	19,5	11,2	0,475	6 300	**FYTBK 30 TF**
	33	15	38,1	76,2	142,5	116,5	83	12	10	22,2	42,2	19,5	11,2	0,475	3 800	**FYTBK 30 TR**
35	35	17	42,9	88,9	156	130	96	14,5	12	25,4	46,4	25,5	15,3	0,655	5 300	**FYTBK 35 TF**
	35	17	42,9	88,9	156	130	96	14,5	12	25,4	46,4	25,5	15,3	0,655	3 200	**FYTBK 35 TR**



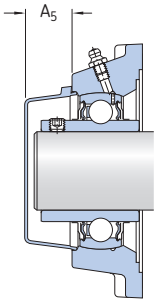
Designations Bearing unit	Separate components Housing	Bearing	**Mass** Bearing unit	**Appropriate end cover** Designation	Dimension A_5
–			kg	–	mm
FYTBK 20 TF	FYTBK 504	YAR 204-2F	0,24	ECY 204	18,5
FYTBK 20 TR	FYTBK 504	YAR 204-2RF	0,24	ECY 204	18,5
FYTBK 25 TF	FYTBK 505	YAR 205-2F	0,29	ECY 205	18
FYTBK 25 TR	FYTBK 505	YAR 205-2RF	0,29	ECY 205	18
FYTBK 30 TF	FYTBK 506	YAR 206-2F	0,44	ECY 206	20
FYTBK 30 TR	FYTBK 506	YAR 206-2RF	0,44	ECY 206	20
FYTBK 35 TF	FYTBK 507	YAR 207-2F	0,61	ECY 207	22
FYTBK 35 TR	FYTBK 507	YAR 207-2RF	0,61	ECY 207	22

Flanged Y-bearing units with a cast housing with a square flange and grub screws, metric shafts

d **12 – 60** mm



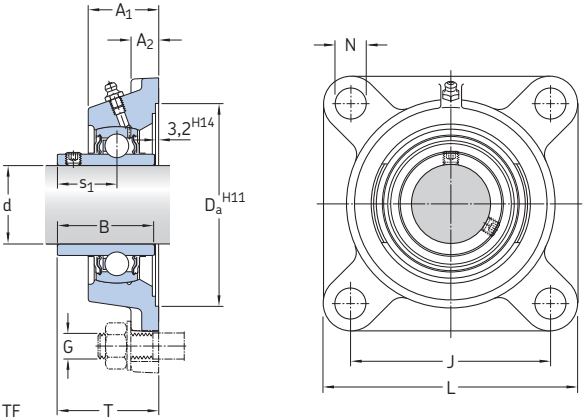
Dimensions											Basic load ratings		Fatigue load limit	Limiting speed	Designation
											dynamic	static		with shaft tolerance	Bearing unit
d	A_1	A_2	B	D_a	J	L	N	G	s_1	T	C	C_0	P_u	h6	
mm											kN		kN	r/min	–
12	26	11	27,4	55,6	54	76	11,5	10	15,9	32,9	9,56	4,75	0,2	9 500	**FY 12 TF**
15	26	11	27,4	55,6	54	76	11,5	10	15,9	32,9	9,56	4,75	0,2	9 500	**FY 15 TF**
17	26	11	27,4	55,6	54	76	11,5	10	15,9	32,9	9,56	4,75	0,2	9 500	**FY 17 TF**
20	29,5	11	31	68,3	63,5	86	11,5	10	18,3	37,3	12,7	6,55	0,28	8 500	**FY 20 TF**
	25,5	12	31	68,3	64	86	12	10	18,3	33,3	12,7	6,55	0,28	8 500	**FYJ 20 TF**
	29,5	11	31	68,3	63,5	86	11,5	10	18,3	37,3	12,7	6,55	0,28	5 000	**FY 20 TR**
25	30	12	34,1	74,6	70	95	11,5	10	19,8	38,8	14	7,8	0,335	7 000	**FY 25 TF**
	27	14	34,1	74,6	70	95	12	10	19,8	35,8	14	7,8	0,335	7 000	**FYJ 25 TF**
	30	12	34,1	74,6	70	95	11,5	10	19,8	38,8	14	7,8	0,335	4 300	**FY 25 TR**
30	32,5	13	38,1	93,7	82,5	108	11,5	10	22,2	42,2	19,5	11,2	0,475	6 300	**FY 30 TF**
	31	14	38,1	93,7	83	108	12	10	22,2	40,2	19,5	11,2	0,475	6 300	**FYJ 30 TF**
	32,5	13	38,1	93,7	82,5	108	11,5	10	22,2	42,2	19,5	11,2	0,475	3 800	**FY 30 TR**
35	34,5	13	42,9	106,4	92	118	14	12	25,4	46,4	25,5	15,3	0,655	5 300	**FY 35 TF**
	34	16	42,9	106,4	92	118	14	12	25,4	44,4	25,5	15,3	0,655	5 300	**FYJ 35 TF**
	34,5	13	42,9	106,4	92	118	14	12	25,4	46,4	25,5	15,3	0,655	3 200	**FY 35 TR**
40	38,5	14	49,2	115,9	101,5	130	14	12	30,2	54,2	30,7	19	0,8	4 800	**FY 40 TF**
	36	16	49,2	115,9	102	130	16	14	30,2	51,2	30,7	19	0,8	4 800	**FYJ 40 TF**
	38,5	14	49,2	115,9	101,5	130	14	12	30,2	54,2	30,7	19	0,8	2 800	**FY 40 TR**
45	39	14	49,2	119,1	105	137	16	14	30,2	54,2	33,2	21,6	0,915	4 300	**FY 45 TF**
	38	18	49,2	119,1	105	137	16	14	30,2	52,2	33,2	21,6	0,915	4 300	**FYJ 45 TF**
	39	14	49,2	119,1	105	137	16	14	30,2	54,2	33,2	21,6	0,915	2 400	**FY 45 TR**
50	43	15	51,6	125,4	111	143	18	16	32,6	60,6	35,1	23,2	0,98	4 000	**FY 50 TF**
	40	18	51,6	125,4	111	143	16	14	32,6	54,6	35,1	23,2	0,98	4 000	**FYJ 50 TF**
	43	15	51,6	125,4	111	143	18	16	32,6	60,6	35,1	23,2	0,98	2 200	**FY 50 TR**
55	47,5	16	55,6	150,8	130	162	18	16	33,4	64,4	43,6	29	1,25	3 600	**FY 55 TF**
	43	20	55,6	150,8	130	162	19	16	33,4	58,4	43,6	29	1,25	3 600	**FYJ 55 TF**
	47,5	16	55,6	150,8	130	162	18	16	33,4	64,4	43,6	29	1,25	1 900	**FY 55 TR**
60	52	17	65,1	161,9	143	175	18	16	39,7	73,7	52,7	36	1,53	3 400	**FY 60 TF**
	48	20	65,1	161,9	143	175	19	16	39,7	68,7	52,7	36	1,53	3 400	**FYJ 60 TF**
	52	17	65,1	161,9	143	175	18	16	39,7	73,7	52,7	36	1,53	1 800	**FY 60 TR**



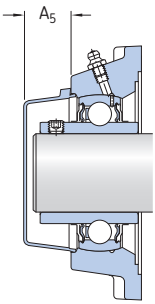
Designations			**Mass**	**Appropriate end cover**	
Bearing unit	Separate components		Bearing unit	Designation	Dimension
	Housing	Bearing			A_5
–			kg	–	mm
FY 12 TF	FY 503 M	YAR 203/12-2F	0,47	–	–
FY 15 TF	FY 503 M	YAR 203/15-2F	0,45	–	–
FY 17 TF	FY 503 M	YAR 203-2F	0,44	–	–
FY 20 TF	FY 504 M	YAR 204-2F	0,60	ECY 204	18,5
FYJ 20 TF	FYJ 504	YAR 204-2F	0,65	–	–
FY 20 TR	FY 504 M	YAR 204-2RF	0,60	ECY 204	18,5
FY 25 TF	FY 505 M	YAR 205-2F	0,77	ECY 205	18
FYJ 25 TF	FYJ 505	YAR 205-2F	0,86	–	–
FY 25 TR	FY 505 M	YAR 205-2RF	0,77	ECY 205	18
FY 30 TF	FY 506 M	YAR 206-2F	1,10	ECY 206	20
FYJ 30 TF	FYJ 506	YAR 206-2F	1,20	–	–
FY 30 TR	FY 506 M	YAR 206-2RF	1,10	ECY 206	20
FY 35 TF	FY 507 M	YAR 207-2F	1,40	ECY 207	22
FYJ 35 TF	FYJ 507	YAR 207-2F	1,50	–	–
FY 35 TR	FY 507 M	YAR 207-2RF	1,40	ECY 207	22
FY 40 TF	FY 508 M	YAR 208-2F	1,90	ECY 208	23,5
FYJ 40 TF	FYJ 508	YAR 208-2F	1,80	–	–
FY 40 TR	FY 508 M	YAR 208-2RF	1,90	ECY 208	23,5
FY 45 TF	FY 509 M	YAR 209-2F	2,10	ECY 209	23
FYJ 45 TF	FYJ 509	YAR 209-2F	2,45	–	–
FY 45 TR	FY 509 M	YAR 209-2RF	2,10	ECY 209	23
FY 50 TF	FY 510 M	YAR 210-2F	2,50	ECY 210	29,5
FYJ 50 TF	FYJ 510	YAR 210-2F	3,15	–	–
FY 50 TR	FY 510 M	YAR 210-2RF	2,50	ECY 210	29,5
FY 55 TF	FY 511 M	YAR 211-2F	3,60	ECY 211	34
FYJ 55 TF	FYJ 511	YAR 211-2F	3,45	–	–
FY 55 TR	FY 511 M	YAR 211-2RF	3,60	ECY 211	34
FY 60 TF	FY 512 M	YAR 212-2F	4,60	ECY 212	35,5
FYJ 60 TF	FYJ 512	YAR 212-2F	4,50	–	–
FY 60 TR	FY 512 M	YAR 212-2RF	4,60	ECY 212	35,5

Flanged Y-bearing units with a cast housing with a square flange and grub screws, metric shafts

d **65 – 100** mm



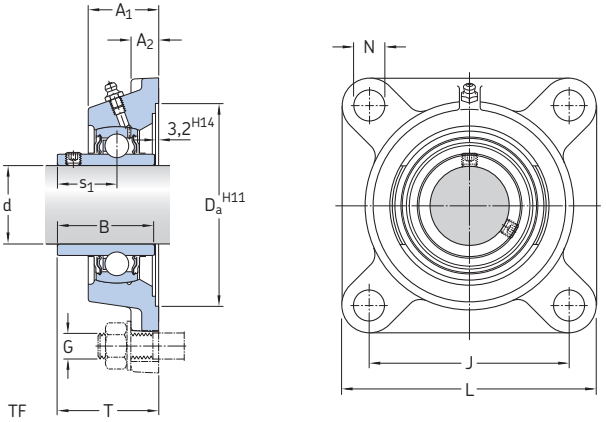
Dimensions											Basic load ratings		Fatigue load limit	Limiting speed	Designation
											dynamic	static		with shaft tolerance	Bearing unit
d	A_1	A_2	B	D_a	J	L	N	G	s_1	T	C	C_0	P_u	h6	
mm											kN		kN	r/min	–
65	52,5	17	68,3	161,9	149,5	187	18	16	42,9	76,9	57,2	40	1,7	3 000	**FY 65 TF**
	50	20	68,3	161,9	149	187	19	16	42,9	72,9	57,2	40	1,7	3 000	**FYJ 65 TF**
70	50,3	21,3	69,9	161,9	152	193	19	16	39,7	70,7	62,4	44	1,86	2 800	**FYJ 70 TF**
75	53,6	22,1	73,1	179,4	159	200	19	16	46,1	80,1	66,3	49	2,04	2 600	**FYJ 75 TF**
80	54,5	22	77,9	179,4	165	208	23	20	47,7	81,7	72,8	53	2,16	2 400	**FYJ 80 TF**
90	63,4	23,4	89	193,7	187	235	23	20	54	94	95,6	72	2,7	2 000	**FYJ 90 TF**
100	70	25	98,4	215,9	210	265	27	24	63,4	107,5	124	93	3,35	1 900	**FYJ 100 TF**



Designations Bearing unit	Separate components Housing	Bearing	**Mass** Bearing unit	**Appropriate end cover** Designation	Dimension A_5
–			kg	–	mm
FY 65 TF	FY 513 M	YAR 213-2F	5,30	ECY 213	35,5
FYJ 65 TF	FYJ 513	YAR 213-2F	5,80	–	–
FYJ 70 TF	FYJ 514	YAR 214-2F	6,00	–	–
FYJ 75 TF	FYJ 515	YAR 215-2F	6,80	–	–
FYJ 80 TF	FYJ 516	YAR 216-2F	7,60	–	–
FYJ 90 TF	FYJ 518	YAR 218-2F	11,5	–	–
FYJ 100 TF	FYJ 520	YAR 220-2F	15,2	–	–

Flanged Y-bearing units with a cast housing with a square flange and grub screws, inch shafts

d **1/2 – 1 1/4** in

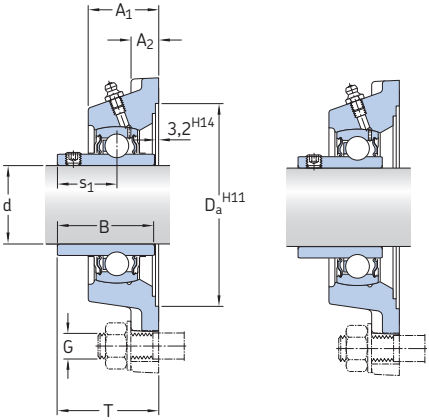


Dimensions									Designation Bearing unit
d	A_1	A_2	B	J	L	G	s_1	T	
in/*mm*									–
1/2	0.92	0.39	1.08	2.13	3.00	3/8	0.63	1.20	**FY 1/2 TF**
12,7	*23,4*	*9,9*	*27,4*	*54*	*76,2*	*10*	*15,9*	*30,6*	
5/8	0.92	0.39	1.08	2.13	3.00	3/8	0.63	1.20	**FY 5/8 TF**
15,875	*23,4*	*9,9*	*27,4*	*54*	*76,2*	*10*	*15,9*	*30,6*	
3/4	1.16	0.43	1.22	2.50	3.39	3/8	0.72	1.47	**FY 3/4 TF**
19,05	*29,5*	*11*	*31*	*63,5*	*86*	*10*	*18,3*	*37,3*	
	1.00	0.47	1.22	2.52	3.39	3/8	0.72	1.31	**FYJ 3/4 TF**
	25,5	*12*	*31*	*64*	*86*	*10*	*18,3*	*33,3*	
13/16	1.18	0.47	1.34	2.76	3.74	7/16	0.78	1.53	**FY 13/16 TF**
20,638	*30*	*12*	*34,1*	*70*	*95*	*10*	*19,8*	*38,8*	
7/8	1.18	0.47	1.34	2.76	3.74	7/16	0.78	1.53	**FY 7/8 TF**
22,225	*30*	*12*	*34,1*	*70*	*95*	*10*	*19,8*	*38,8*	
15/16	1.18	0.47	1.34	2.76	3.74	7/16	0.78	1.53	**FY 15/16 TF**
23,813	*30*	*12*	*34,1*	*70*	*95*	*10*	*19,8*	*38,8*	
1	1.18	0.47	1.34	2.76	3.74	3/8	0.78	1.53	**FY 1. TF**
25,4	*30*	*12*	*34,1*	*70*	*95*	*10*	*19,8*	*38,8*	
	1.06	0.55	1.34	2.76	3.74	3/8	0.78	1.41	**FYJ 1. TF**
	27	*14*	*34,1*	*70*	*95*	*10*	*19,8*	*35,8*	
1 1/16	1.28	0.51	1.50	3.25	4.25	7/16	0.87	1.66	**FY 1.1/16 TF**
26,9875	*32,5*	*13*	*38,1*	*82,5*	*108*	*10*	*22,2*	*42,2*	
1 1/8	1.28	0.51	1.50	3.25	4.25	7/16	0.87	1.66	**FY 1.1/8 TF**
28,575	*32,5*	*13*	*38,1*	*82,5*	*108*	*10*	*22,2*	*42,2*	
1 3/16	1.28	0.51	1.50	3.25	4.25	7/16	0.87	1.66	**FY 1.3/16 TF**
30,163	*32,5*	*13*	*38,1*	*82,5*	*108*	*10*	*22,2*	*42,2*	
1 1/4	1.36	0.51	1.69	3.62	4.65	1/2	1.00	1.83	**FY 1.1/4 TF**
31,75	*34,5*	*13*	*42,9*	*92*	*118*	*12*	*25,4*	*46,4*	
	1.34	0.51	1.69	3.62	4.65	1/2	1.00	1.75	**FYJ 1.1/4 TF**
	34	*16*	*42,9*	*92*	*118*	*12*	*25,4*	*44,4*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load** limit P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FY 1/2 TF	FY 503 U	YAR 203-008-2F	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	1.00 *0,46*
FY 5/8 TF	FY 503 U	YAR 203-010-2F	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	1.05 *0.95*
FY 3/4 TF	FY 504 M	YAR 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.35 *0,61*
FYJ 3/4 TF	FYJ 504	YAR 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.45 *0,66*
FY 13/16 TF	FY 505 U	YAR 205-013-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.80 *0,81*
FY 7/8 TF	FY 505 U	YAR 205-014-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.75 *0,80*
FY 15/16 TF	FY 505 U	YAR 205-015-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.70 *0,78*
FY 1. TF	FY 505 M	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.70 *0,77*
FYJ 1. TF	FYJ 505	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.90 *0,86*
FY 1.1/16 TF	FY 506 U	YAR 206-101-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.45 *1,10*
FY 1.1/8 TF	FY 506 U	YAR 206-102-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.50 *1,10*
FY 1.3/16 TF	FY 506 U	YAR 206-103-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.40 *1,10*
FY 1.1/4 TF	FY 507 M	YAR 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.20 *1,45*
FYJ 1.1/4 TF	FYJ 507	YAR 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.40 *1,55*

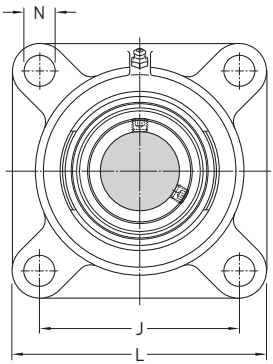
Flanged Y-bearing units with a cast housing with a square flange and grub screws, inch shafts

d **1 5/16 – 1 15/16** in



FY .. TF

FY .. RM

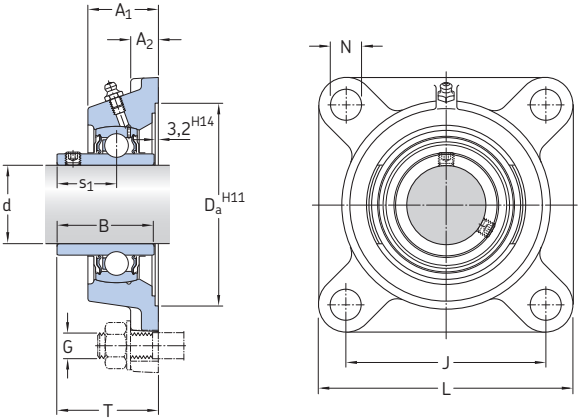


Dimensions									Designation Bearing unit
d	A_1	A_2	B	J	L	G	s_1	T	
in/*mm*									–
1 5/16	1.36	0.51	1.69	3.62	4.65	1/2	1.00	1.83	**FY 1.5/16 TF**
33,338	34,5	13	42,9	92	118	12	25,4	46,4	
1 3/8	1.36	0.51	1.69	3.62	4.65	1/2	1.00	1.83	**FY 1.3/8 TF**
34,925	*34,5*	*13*	*42,9*	*92*	*118*	*12*	*25,4*	*46,4*	
1 7/16	1.36	0.51	1.69	3.62	4.65	1/2	1.00	1.83	**FY 1.7/16 TF**
36,513	*34,5*	*13*	*42,9*	*92*	*118*	*12*	*25,4*	*46,4*	
	1.52	0.55	1.94	4.00	5.12	1/2	1.19	2.13	**FYM 1.7/16 TF**
	38,5	*14*	*49,2*	*101,5*	*130*	*12*	*30,2*	*54,2*	
1 1/2	1.52	0.55	1.94	4.00	5.12	1/2	1.19	2.13	**FY 1.1/2 TF**
38,1	*38,5*	*14*	*49,2*	*101,5*	*130*	*12*	*30,2*	*54,2*	
	1.42	0.63	1.94	4.02	5.12	9/16	1.19	2.02	**FYJ 1.1/2 TF**
	36	*16*	*49,2*	*102*	*130*	*14*	*30,2*	*51,2*	
	1.54	0.55	1.94	4.13	5.39	9/16	1.19	2.13	**FYM 1.1/2 TF**
	39	*14*	*49,2*	*105*	*137*	*14*	*30,2*	*54,2*	
1 5/8	1.54	0.55	1.94	4.13	5.39	9/16	1.19	2.13	**FY 1.5/8 TF**
41,275	*39*	*14*	*49,2*	*105*	*137*	*14*	*30,2*	*54,2*	
1 11/16	1.69	0.59	2.03	4.37	5.63	9/16	1.28	2.39	**FYM 1.11/16 TF**
42,863	*43*	*15*	*51,6*	*111*	*143*	*14*	*32,6*	*60,6*	
1 3/4	1.54	0.55	1.94	4.13	5.39	9/16	1.19	2.13	**FY 1.3/4 TF**
44,45	*39*	*14*	*49,2*	*105*	*137*	*14*	*30,2*	*54,2*	
	1.54	0.55	1.63	4.13	5.39	9/16	1.20	2.13	**FY 1.3/4 RM**
	39	*14*	*41,5*	*105*	*137*	*14*	*30,5*	*54,2*	
	1.50	0.71	1.94	4.13	5.39	9/16	1.19	2.06	**FYJ 1.3/4 TF**
	38	*18*	*49,2*	*105*	*137*	*14*	*30,2*	*52,2*	
	1.69	0.59	2.03	4.37	5.63	9/16	1.28	2.39	**FYM 1.3/4 TF**
	43	*15*	*51,6*	*111*	*143*	*14*	*32,6*	*60,6*	
1 15/16	1.69	0.59	2.03	4.37	5.63	9/16	1.28	2.39	**FY 1.15/16 TF**
49,213	*43*	*15*	*51,6*	*111*	*143*	*14*	*32,6*	*60,6*	
	1.87	0.63	2.19	5.12	6.38	5/8	1.31	2.54	**FYM 1.15/16 TF**
	47,5	*16*	*55,6*	*130*	*162*	*16*	*33,4*	*64,4*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load** limit P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FY 1.5/16 TF	FY 507 U	YAR 207-105-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.20 *1,45*
FY 1.3/8 TF	FY 507 U	YAR 207-106-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.15 *1,40*
FY 1.7/16 TF	FY 507 U	YAR 207-107-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.05 *1,40*
FYM 1.7/16 TF	FY 508 U	YAR 208-107-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.50 *2,00*
FY 1.1/2 TF	FY 508 M	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.20 *1,90*
FYJ 1.1/2 TF	FYJ 508	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.30 *1,95*
FYM 1.1/2 TF	FY 509 U	YAR 209-108-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.50 *2,50*
FY 1.5/8 TF	FY 509 U	YAR 209-110-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.40 *2,20*
FYM 1.11/16 TF	FY 510 U	YAR 210-111-2F	7 900 *35.1*	5 220 *23.2*	220 *0.98*	4 000	5.50 *2,50*
FY 1.3/4 TF	FY 509 M	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.75 *2,15*
FY 1.3/4 RM	FY 509 U	YAT 209-112	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.40 *2,00*
FYJ 1.3/4 TF	FYJ 509	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.50 *2,50*
FYM 1.3/4 TF	FY 510 U	YAR 210-112-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.50 *2,50*
FY 1.15/16 TF	FY 510 U	YAR 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.25 *2,50*
FYM 1.15/16 TF	FY 511 U	YAR 211-115-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	9.00 *4,00*

Flanged Y-bearing units with a cast housing with a square flange and grub screws, inch shafts

d **2 – 3** in

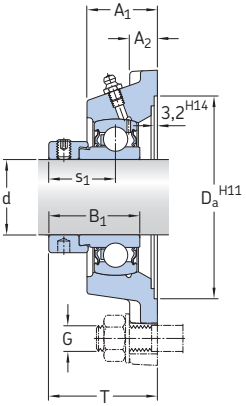


Dimensions									Designation Bearing unit
d	A_1	A_2	B	J	L	G	s_1	T	
in/*mm*									–
2	1.87	0.63	2.19	5.12	6.38	5/8	1.31	2.54	**FY 2. TF**
50,8	*47,5*	*16*	*55,6*	*130*	*162*	*16*	*33,4*	*64,4*	
	1.69	0.79	2.19	5.12	6.38	5/8	1.31	2.30	**FYJ 2. TF**
	43	*20*	*55,6*	*130*	*162*	*16*	*33,4*	*58,4*	
2 3/16	1.87	0.63	2.19	5.12	6.38	5/8	1.31	2.54	**FY 2.3/16 TF**
55,563	*47,5*	*16*	*55.6*	*130*	*162*	*16*	*33,4*	*64,4*	
	2.05	0.67	2.56	5.63	6.89	5/8	1.56	2.90	**FYM 2.3/16 TF**
	52	*17*	*65,1*	*143*	*175*	*16*	*39,7*	*73,7*	
2 1/4	2.05	0.67	2.56	5.63	6.89	5/8	1.56	2.90	**FY 2.1/4 TF**
57,15	*52*	*17*	*65,1*	*143*	*175*	*16*	*39,7*	*73,7*	
2 7/16	2.05	0.67	2.56	5.63	6.89	5/8	1.56	2.90	**FY 2.7/16 TF**
61,913	*52*	*17*	*65,1*	*143*	*175*	*16*	*39,7*	*73,7*	
	2.25	0.69	2.75	5.88	7.37	5/8	1.56	3.00	**FYM 2.7/16 TF**
	57,15	*17,5*	*69,6*	*149,3*	*187,5*	*16*	*39,7*	*76,2*	
2 1/2	2.07	0.67	2.69	5.89	7.36	5/8	1.69	3.03	**FY 2.1/2 TF**
63,5	*52,5*	*17*	*68,3*	*149,5*	*187*	*16*	*42,9*	*76,9*	
	1.97	0.78	2.69	5.87	7.36	5/8	1.69	2.87	**FYJ 2.1/2 TF**
	50	*20*	*68,3*	*149*	*187*	*16*	*42,9*	*72,9*	
2 11/16	2.07	0.65	2.69	5.89	7.36	5/8	1.69	2.85	**FY 2.11/16 TF**
68,263	*52,5*	*16,5*	*68,3*	*149,5*	*187*	*16*	*42,9*	*72,4*	
2 3/4	2.56	0.75	2.88	6.00	7.75	3/4	1.82	3.44	**FY 2.3/4 TF**
69,85	*65,1*	*19*	*73,1*	*152,4*	*197*	*20*	*46,1*	*87,4*	
2 15/16	2.56	0.75	2.88	6.00	7.75	3/4	1.82	3.44	**FY 2.15/16 TF**
74,613	*65,1*	*19*	*73,1*	*152,4*	*197*	*20*	*46,1*	*87.4*	
	2.31	0.87	3.07	6.00	7.75	3/4	1.88	3.25	**FYM 2.15/16 TF**
	58,7	*22,2*	*77,9*	*152,4*	*197*	*20*	*47,7*	*82,6*	
3	2.31	0.87	3.07	6.00	7.75	3/4	1.88	3.25	**FYM 3. TF**
76,2	*58,7*	*22,2*	*77,9*	*152,4*	*197*	*20*	*47,7*	*82,6*	

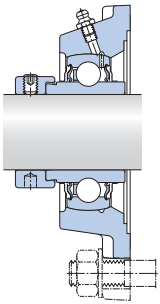
Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load** limit P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FY 2. TF	FY 511 M	YAR 211-200-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.25 *3,75*
FYJ 2. TF	FYJ 511	YAR 211-200-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.95 *3,60*
FY 2.3/16 TF	FY 511 U	YAR 211-203-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.85 *3,55*
FYM 2.3/16 TF	FY 512 U	YAR 212-203-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	11.0 *5,00*
FY 2.1/4 TF	FY 512 U	YAR 212-204-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	10.5 *4,75*
FY 2.7/16 TF	FY 512 U	YAR 212-207-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	10.0 *4,60*
FYM 2.7/16 TF	FY 514 U	YAR 214-207-2F	14 040 *62,4*	9 900 *44*	420 *1,86*	2 800	13.0 *6,0*
FY 2.1/2 TF	FY 513 M	YAR 213-208-2F	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	11.9 *5,40*
FYJ 2.1/2 TF	FYJ 513	YAR 213-208-2F	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	13.0 *5,90*
FY 2.11/16 TF	FY 513 U	YAR 213-211-2F	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	11.5 *5,10*
FY 2.3/4 TF	FY 515 U	YAR 215-212-2F	14 920 *66,3*	11 030 *49*	460 *2,04*	2 600	13.5 *6,10*
FY 2.15/16 TF	FY 515 U	YAR 215-215-2F	14 920 *66,3*	11 030 *49*	460 *2,04*	2 600	18.0 *8,15*
FYM 2.15/16 TF	FY 516 U	YAR 216-215-2F	16 380 *72,8*	11 930 *53*	490 *2,16*	2 400	17.5 *8,00*
FYM 3. TF	FY 516 U	YAR 216-300-2F	16 380 *72,8*	11 930 *53*	490 *2,16*	2 400	17.5 *8,00*

Flanged Y-bearing units with a cast housing with a square flange and an eccentric locking collar, metric shafts

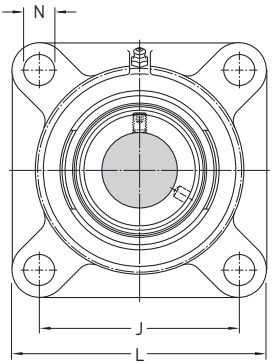
d **15 – 60** mm



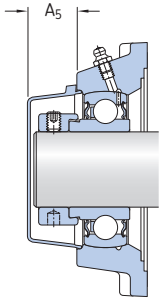
FM



WF



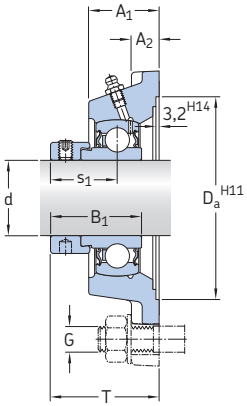
Dimensions											Basic load ratings		Fatigue load limit	Limiting speed	Designation
											dynamic	static		with shaft tolerance h6	Bearing unit
d	A_1	A_2	B_1	D_a	J	L	N	G	s_1	T	C	C_0	P_u		
mm											kN		kN	r/min	–
15	26	11	28,6	55,6	54	76	11,5	10	22,1	39,1	9,56	4,75	0,2	9 500	**FY 15 FM**
17	26	11	28,6	55,6	54	76	11,5	10	22,1	39,1	9,56	4,75	0,2	9 500	**FY 17 FM**
20	29,5	11	31	68,3	63,5	86	11,5	10	23,5	42,5	12,7	6,55	0,28	8 500	**FY 20 FM**
	29,5	11	43,7	68,3	63,5	86	11,5	10	26,6	45,6	12,7	6,55	0,28	8 500	**FY 20 WF**
25	30	12	31	74,6	70	95	11,5	10	23,5	42,5	14	7,8	0,335	7 000	**FY 25 FM**
	30	12	44,4	74,6	70	95	11,5	10	26,9	45,6	14	7,8	0,335	7 000	**FY 25 WF**
30	32,5	13	35,7	93,7	82,5	108	11,5	10	26,7	46,7	19,5	11,2	0,475	6 300	**FY 30 FM**
	32,5	13	48,4	93,7	82,5	108	11,5	10	30,1	50,1	19,5	11,2	0,475	6 300	**FY 30 WF**
35	34,5	13	38,9	106,4	92	118	14	12	29,4	50,4	25,5	15,3	0,655	5 300	**FY 35 FM**
	34,5	13	51,1	106,4	92	118	14	12	32,3	53,3	25,5	15,3	0,655	5 300	**FY 35 WF**
40	38,5	14	43,7	115,9	101,5	130	14	12	32,7	56,7	30,7	19	0,8	4 800	**FY 40 FM**
	38,5	14	56,3	115,9	101,5	130	14	12	34,9	58,9	30,7	19	0,8	4 800	**FY 40 WF**
45	39	14	43,7	119,1	105	137	16	14	32,7	56,7	33,2	21,6	0,915	4 300	**FY 45 FM**
	39	14	56,3	119,1	105	137	16	14	34,9	58,9	33,2	21,6	0,915	4 300	**FY 45 WF**
50	43	15	43,7	125,4	111	143	18	16	32,7	60,7	35,1	23,2	0,98	4 000	**FY 50 FM**
	43	15	62,7	125,4	111	143	18	16	38,1	66,1	35,1	23,2	0,98	4 000	**FY 50 WF**
55	47,5	16	48,4	150,8	130	162	18	16	36,4	67,4	43,6	29	1,25	3 600	**FY 55 FM**
	47,5	16	71,4	150,8	130	162	18	16	43,6	74,6	43,6	29	1,25	3 600	**FY 55 WF**
60	52	17	53,1	161,9	143	175	18	16	39,6	73,6	52,7	36	1,53	3 400	**FY 60 FM**
	52	17	77,8	161,9	143	175	18	16	46,8	80,8	52,7	36	1,53	3 400	**FY 60 WF**



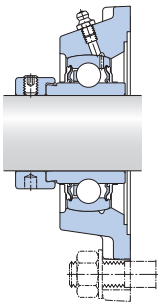
Designations			Mass	Appropriate end cover	
Bearing unit	Separate components		Bearing unit	Designation	Dimension
	Housing	Bearing			A_5
–			kg	–	mm
FY 15 FM	FY 503 M	YET 203/15	0,47	–	–
FY 17 FM	FY 503 M	YET 203	0,48	–	–
FY 20 FM	FY 504 M	YET 204	0,62	ECY 204	18,5
FY 20 WF	FY 504 M	YEL 204-2F	0,65	ECY 204	18,5
FY 25 FM	FY 505 M	YET 205	0,78	ECY 205	18
FY 25 WF	FY 505 M	YEL 205-2F	0,83	ECY 205	18
FY 30 FM	FY 506 M	YET 206	1,10	ECY 206	20
FY 30 WF	FY 506 M	YEL 206-2F	1,20	ECY 206	20
FY 35 FM	FY 507 M	YET 207	1,50	ECY 207	22
FY 35 WF	FY 507 M	YEL 207-2F	1,55	ECY 207	22
FY 40 FM	FY 508 M	YET 208	1,95	ECY 208	23,5
FY 40 WF	FY 508 M	YEL 208-2F	2,05	ECY 208	23,5
FY 45 FM	FY 509 M	YET 209	2,15	ECY 209	23
FY 45 WF	FY 509 M	YEL 209-2F	2,25	ECY 209	23
FY 50 FM	FY 510 M	YET 210	2,55	ECY 210	29,5
FY 50 WF	FY 510 M	YEL 210-2F	2,70	ECY 210	29,5
FY 55 FM	FY 511 M	YET 211	3,60	ECY 211	34
FY 55 WF	FY 511 M	YEL 211-2F	3,85	ECY 211	34
FY 60 FM	FY 512 M	YET 212	4,70	ECY 212	35,5
FY 60 WF	FY 512 M	YEL 212-2F	5,00	ECY 212	35,5

Flanged Y-bearing units with a cast housing with a square flange and an eccentric locking collar, inch shafts

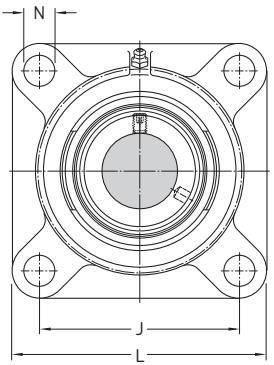
d **5/8 – 1 3/4** in



FM



WF

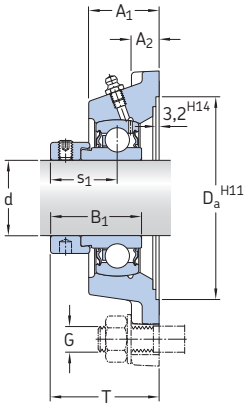


Dimensions									**Designation** Bearing unit
d	A_1	A_2	B_1	J	L	G	s_1	T	
in/*mm*									–
5/8	0.92	0.39	1.13	2.13	3.00	3/8	0.87	1.45	**FY 5/8 FM**
15,875	*23,4*	*9,9*	*28,6*	*54*	*76,2*	*10*	*22,1*	*36,8*	
3/4	1.16	0.43	1.22	2.50	3.39	3/8	0.93	1.68	**FY 3/4 FM**
19,05	*29,5*	*11*	*31*	*63,5*	*86*	*10*	*23,5*	*42,5*	
7/8	1.18	0.47	1.22	2.76	3.74	7/16	0.93	1.67	**FY 7/8 FM**
22,225	*30*	*12*	*31*	*70*	*95*	*10*	*23,5*	*42,5*	
1	1.18	0.47	1.22	2.76	3.74	7/16	0.93	1.67	**FY 1. FM**
25,4	*30*	*12*	*31*	*70*	*95*	*10*	*23,5*	*42,5*	
	1.18	0.47	1.75	2.76	3.74	7/16	1.06	1.81	**FY 1. WF**
	30	*12*	*44,4*	*70*	*95*	*10*	*26,9*	*45,9*	
1 1/8	1.28	0.51	1.41	3.25	4.25	7/16	1.05	1.84	**FY 1.1/8 FM**
28,575	*32,5*	*13*	*35,7*	*82,5*	*108*	*10*	*26,7*	*46,7*	
1 3/16	1.28	0.51	1.41	3.25	4.25	7/16	1.05	1.84	**FY 1.3/16 FM**
30,163	*32,5*	*13*	*35,7*	*82,5*	*108*	*10*	*26,7*	*46,7*	
1 1/4	1.36	0.51	1.53	3.62	4.65	1/2	1.16	1.98	**FY 1.1/4 FM**
31,75	*34,5*	*13*	*38,9*	*92*	*118*	*12*	*29,4*	*50,4*	
	1.36	0.51	2.01	3.62	4.65	1/2	1.27	2.10	**FY 1.1/4 WF**
	34,5	*13*	*51,1*	*92*	*118*	*12*	*32,3*	*53,3*	
1 3/8	1.36	0.51	1.53	3.62	4.65	1/2	1.16	1.98	**FY 1.3/8 FM**
34,925	*34,5*	*13*	*38,9*	*92*	*118*	*12*	*29,4*	*50,4*	
1 7/16	1.36	0.51	1.53	3.62	4.65	1/2	1.16	1.98	**FY 1.7/16 FM**
36,513	*34,5*	*13*	*38,9*	*92*	*118*	*12*	*29,4*	*50,4*	
1 1/2	1.52	0.55	1.72	4.00	5.12	1/2	1.29	2.22	**FY 1.1/2 FM**
38,1	*38,5*	*14*	*43,7*	*101,5*	*130*	*12*	*32,7*	*56,5*	
	1.52	0.55	2.22	4.00	5.12	1/2	1.37	2.32	**FY 1.1/2 WF**
	38,5	*14*	*56,3*	*101,5*	*130*	*12*	*34,9*	*58,9*	
1 11/16	1.54	0.55	1.72	4.13	5.39	9/16	1.29	2.22	**FY 1.11/16 FM**
42,863	*39*	*14*	*43,7*	*105*	*137*	*14*	*32,7*	*56,5*	
1 3/4	1.54	0.55	1.72	4.13	5.39	9/16	1.29	2.22	**FY 1.3/4 FM**
44,45	*39*	*14*	*43,7*	*105*	*137*	*14*	*32,7*	*56,5*	

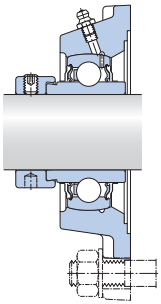
Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FY 5/8 FM	FY 503 U	YET 203-010	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	1.05 *0,47*
FY 3/4 FM	FY 504 U	YET 204-012	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.40 *0,63*
FY 7/8 FM	FY 505 U	YET 205-014	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.80 *0,81*
FY 1. FM	FY 505 U	YET 205-100	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.70 *0,78*
FY 1. WF	FY 505 U	YEL 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.80 *0,82*
FY 1.1/8 FM	FY 506 U	YET 206-102	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.50 *1,10*
FY 1.3/16 FM	FY 506 U	YET 206-103	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.45 *1,10*
FY 1.1/4 FM	FY 507 U	YET 207-104	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.40 *1,55*
FY 1.1/4 WF	FY 507 U	YEL 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.55 *1,60*
FY 1.3/8 FM	FY 507 U	YET 207-106	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.25 *1,50*
FY 1.7/16 FM	FY 507 U	YET 207-107	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.20 *1,45*
FY 1.1/2 FM	FY 508 U	YET 208-108	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.40 *2,00*
FY 1.1/2 WF	FY 508 U	YEL 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	4.65 *2,10*
FY 1.11/16 FM	FY 509 U	YET 209-111	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.85 *2,20*
FY 1.3/4 FM	FY 509 U	YET 209-112	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.75 *2,15*

Flanged Y-bearing units with a cast housing with a square flange and an eccentric locking collar, inch shafts

d **1 15/16 – 2 7/16** in



FM



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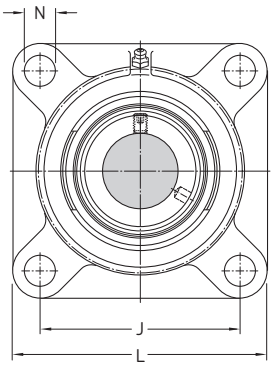
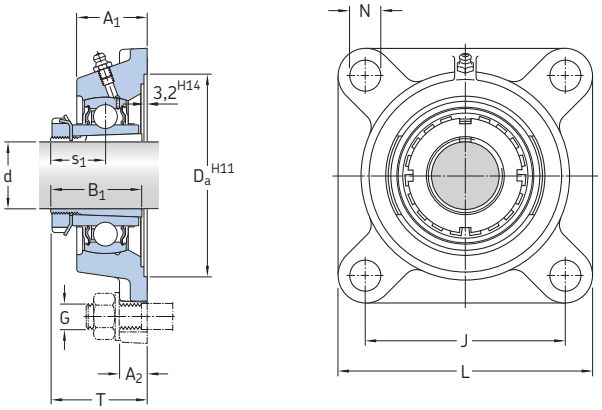


Dimensions									Designation Bearing unit
d	A_1	A_2	B_1	J	L	G	s_1	T	
in/*mm*									–
1 15/16	1.69	0.59	1.72	4.37	5.63	9/16	1.29	2.39	**FY 1.15/16 FM**
49,213	*43*	*15*	*43,7*	*111*	*143*	*14*	*32,7*	*60,7*	
	1.69	0.59	2.47	4.37	5.63	9/16	1.50	2.60	**FY 1.15/16 WF**
	43	*15*	*62,7*	*111*	*143*	*14*	*38,1*	*66,1*	
2	1.87	0.63	1.91	5.12	6.38	5/8	1.43	2.65	**FY 2. FM**
50,8	*47,5*	*16*	*48,4*	*130*	*162*	*16*	*36,4*	*67,4*	
2 3/16	1.87	0.63	1.91	5.12	6.38	5/8	1.43	2.65	**FY 2.3/16 FM**
55,563	*47,5*	*16*	*48,4*	*130*	*162*	*16*	*36,4*	*67,4*	
	1.87	0.63	2.81	5.12	6.38	5/8	1.72	2.94	**FY 2.3/16 WF**
	47,5	*16*	*71,4*	*130*	*162*	*16*	*43,6*	*74,6*	
2 7/16	2.05	0.67	3.06	5.63	6.89	5/8	1.84	3.18	**FY 2.7/16 WF**
61,913	*52*	*17*	*77,8*	*143*	*175*	*16*	*46,8*	*80,8*	

Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FY 1.15/16 FM	FY 510 U	YET 210-115	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.60 *2,55*
FY 1.15/16 WF	FY 510 U	YEL 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.05 *2,75*
FY 2. FM	FY 511 U	YET 211-200	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.25 *3,75*
FY 2.3/16 FM	FY 511 U	YET 211-203	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8,00 *3,65*
FY 2.3/16 WF	FY 511 U	YEL 211-203-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.50 *3,85*
FY 2.7/16 WF	FY 512 U	YEL 212-207-2F	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	11.0 *5,05*

Flanged Y-bearing units with a cast housing with a square flange and an adapter sleeve, metric shafts

d **20 – 60** mm



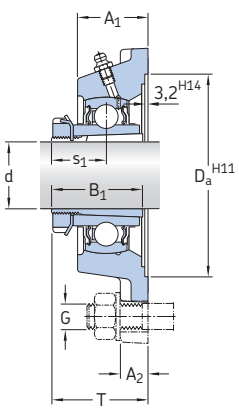
Dimensions											Basic load ratings		Fatigue load limit	Designations[1]	
											dynamic	static		Bearing unit	Adapter sleeve
d	A_1	A_2	B_1	D_a	J	L	N	G	s_1	T	C	C_0	P_u		
mm											kN		kN	–	
20	27	14	35	74,6	70	95	12	10	20	36	14	7,8	0,335	**FYJ 25 KF**	**H 2305**
25	31	14	38	93,7	83	108	12	10	22	40	19,5	11,2	0,475	**FYJ 30 KF**	**H 2306**
30	34	16	43	106,4	92	118	14	12	24,3	43,3	25,5	15,3	0,655	**FYJ 35 KF**	**H 2307**
35	36	16	46	115,9	102	130	16	14	27	48	30,7	19	0,8	**FYJ 40 KF**	**H 2308**
40	38	18	50	119,1	105	137	16	14	28,5	50,5	33,2	21,6	0,915	**FYJ 45 KF**	**H 2309**
45	40	18	55	125,4	111	143	16	14	30,5	52,5	35,1	23,2	0,98	**FYJ 50 KF**	**H 2310**
50	43	20	59	150,8	130	162	19	16	32,5	57,5	43,6	29	1,25	**FYJ 55 KF**	**H 2311**
55	48	20	62	161,9	143	175	19	16	34,3	63,3	52,7	36	1,53	**FYJ 60 KF**	**H 2312**
60	50	20	65	161,9	149	187	19	16	35,8	65,8	57,2	40	1,7	**FYJ 65 KF**	**H 2313**

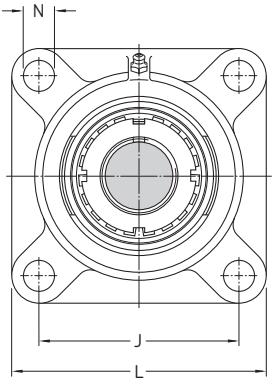
[1] Bearing unit and adapter sleeve to be ordered separately

Designations Bearing unit without adapter sleeve	Separate components of the bearing unit Housing	Bearing	**Limiting speed**	**Mass** Bearing unit + sleeve
–			r/min	kg
FYJ 25 KF	FYJ 505	YSA 205-2FK	7 000	0,73
FYJ 30 KF	FYJ 506	YSA 206-2FK	6 300	1,05
FYJ 35 KF	FYJ 507	YSA 207-2FK	5 300	1,35
FYJ 40 KF	FYJ 508	YSA 208-2FK	4 800	1,75
FYJ 45 KF	FYJ 509	YSA 209-2FK	4 300	2,10
FYJ 50 KF	FYJ 510	YSA 210-2FK	4 000	2,80
FYJ 55 KF	FYJ 511	YSA 211-2FK	3 600	3,60
FYJ 60 KF	FYJ 512	YSA 212-2FK	3 400	4,60
FYJ 65 KF	FYJ 513	YSA 213-2FK	3 000	6,00

Flanged Y-bearing units with a cast housing with a square flange and an adapter sleeve, inch shafts

d **3/4 – 2 1/8** in





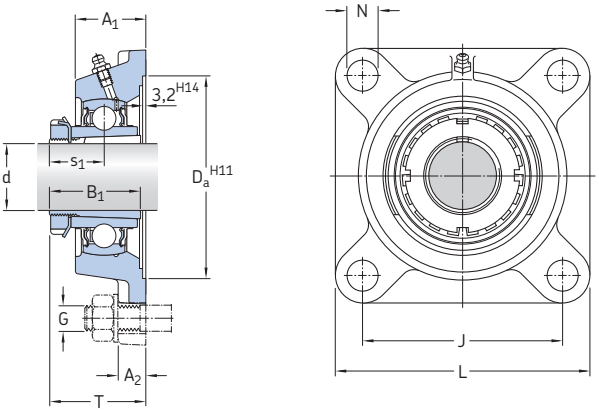
Dimensions											Designations[1]	
											Bearing unit	Adapter sleeve
d	A_1	A_2	B_1	D_a	J	L	N	G	s_1	T		
in/*mm*											–	
3/4 *19,05*	1.06 *27*	0.55 *14*	1.38 *35*	2.94 *74,6*	2.76 *70*	3.74 *95*	0.47 *12*	3/8 *10*	0.79 *20*	1.42 *36*	**FYJ 25 KF**	**HE 2305**
15/16 *23,813*	1.22 *31*	0.55 *14*	1.50 *38*	3.69 *93,7*	3.27 *83*	4.25 *108*	0.47 *12*	3/8 *10*	0.87 *22*	1.57 *40*	**FYJ 30 KF**	**HA 2306**
1 *25,4*	1.22 *31*	0.55 *14*	1.50 *38*	3.69 *93,7*	3.27 *83*	4.25 *108*	0.47 *12*	3/8 *10*	0.87 *22*	1.57 *40*	**FYJ 30 KF**	**HE 2306**
1 3/16 *30,163*	1.34 *34*	0.63 *16*	1.69 *43*	4.19 *106,4*	3.62 *92*	4.65 *118*	0.55 *14*	1/2 *12*	0.96 *24,3*	1.70 *43,3*	**FYJ 35 KF**	**HA 2307**
1 1/4 *31,75*	1.42 *36*	0.63 *16*	1.81 *46*	4.56 *115,9*	4.02 *102*	5.12 *130*	0.63 *16*	9/16 *14*	1.06 *27*	1.89 *48*	**FYJ 40 KF**	**HE 2308**
1 7/16 *36,513*	1.50 *38*	0.71 *18*	1.97 *50*	4.69 *119,1*	4.13 *105*	5.39 *137*	0.63 *16*	9/16 *14*	1.12 *28,5*	1.99 *50,5*	**FYJ 45 KF**	**HA 2309**
1 1/2 *38,1*	1.50 *38*	0.71 *18*	1.97 *50*	4.69 *119,1*	4.13 *105*	5.39 *137*	0.63 *16*	9/16 *14*	1.12 *28,5*	1.99 *50,5*	**FYJ 45 KF**	**HE 2309**
1 5/8 *41,275*	1.57 *40*	0.71 *18*	2.17 *55*	4.94 *125,4*	4.37 *111*	5.63 *143*	0.63 *16*	9/16 *14*	1.20 *30,5*	2.07 *52,5*	**FYJ 50 KF**	**HS 2310**
1 11/16 *42,863*	1.57 *40*	0.71 *18*	2.17 *55*	4.94 *125,4*	4.37 *111*	5.63 *143*	0.63 *16*	9/16 *14*	1.20 *30,5*	2.07 *52,5*	**FYJ 50 KF**	**HA 2310**
1 3/4 *44,45*	1.57 *40*	0.71 *18*	2.17 *55*	4.94 *125,4*	4.37 *111*	5.63 *143*	0.63 *16*	9/16 *14*	1.20 *30,5*	2.07 *52,5*	**FYJ 50 KF**	**HE 2310**
1 15/16 *49,213*	1.69 *43*	0.79 *20*	2.32 *59*	5.94 *150,8*	5.12 *130*	6.38 *162*	0.75 *19*	5/8 *16*	1.28 *32,5*	2.26 *57,5*	**FYJ 55 KF**	**HA 2311**
2 *50,8*	1.69 *43*	0.79 *20*	2.32 *59*	5.94 *150,8*	5.12 *130*	6.38 *162*	0.75 *19*	5/8 *16*	1.28 *32,5*	2.26 *57,5*	**FYJ 55 KF**	**HE 2311 B**
2 1/8 *53,975*	1.89 *48*	0.79 *20*	2.44 *62*	6.37 *161,9*	5.63 *143*	6.89 *175*	0.75 *19*	5/8 *16*	1.35 *34,3*	2.49 *63,3*	**FYJ 60 KF**	**HS 2312**

[1] Bearing unit and adapter sleeve to be ordered separately

Designations Bearing unit without adapter sleeve	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Limiting** speed	**Mass** Bearing unit + sleeve
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FYJ 25 KF	FYJ 505	YSA 205-2FK	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.60 *0,73*
FYJ 30 KF	FYJ 506	YSA 206-2FK	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.35 *1,05*
FYJ 30 KF	FYJ 506	YSA 206-2FK	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.30 *1,05*
FYJ 35 KF	FYJ 507	YSA 207-2FK	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.00 *1,35*
FYJ 40 KF	FYJ 508	YSA 208-2FK	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.85 *1,75*
FYJ 45 KF	FYJ 509	YSA 209-2FK	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.75 *2,15*
FYJ 45 KF	FYJ 509	YSA 209-2FK	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.65 *2,10*
FYJ 50 KF	FYJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.30 *2,85*
FYJ 50 KF	FYJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.25 *2,85*
FYJ 50 KF	FYJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	6.15 *2,80*
FYJ 55 KF	FYJ 511	YSA 211-2FK	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.95 *3,60*
FYJ 55 KF	FYJ 511	YSA 211-2FK	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.95 *3,60*
FYJ 60 KF	FYJ 512	YSA 212-2FK	11 860 *52,7*	8 100 *36*	340 *1,53*	3 400	10.0 *4,60*

Flanged Y-bearing units with a cast housing with a square flange and an adapter sleeve, inch shafts

d **2 3/16 – 2 3/8** in



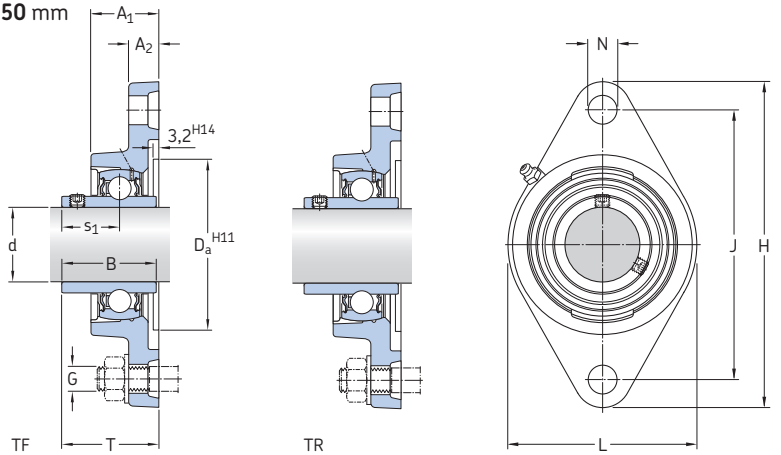
Dimensions											Designations[1]	
											Bearing unit	Adapter sleeve
d	A_1	A_2	B_1	D_a	J	L	N	G	s_1	T		
in/*mm*											–	
2 3/16	1.97	0.79	2.56	6.37	5.87	7.36	0.75	5/8	1.41	2.59	**FYJ 65 KF**	**HA 2313**
55,563	*50*	*20*	*65*	*161,9*	*149*	*187*	*19*	*16*	*35,8*	*65,8*		
2 1/4	1.97	0.79	2.56	6.37	5.87	7.36	0.75	5/8	1.41	2.59	**FYJ 65 KF**	**HE 2313**
57,15	*50*	*20*	*65*	*161,9*	*149*	*187*	*19*	*16*	*35,8*	*65,8*		
2 3/8	1.97	0.79	2.56	6.37	5.87	7.36	0.75	5/8	1.41	2.59	**FYJ 65 KF**	**HS 2313**
60,325	*50*	*20*	*65*	*161,9*	*149*	*187*	*19*	*16*	*35,8*	*65,8*		

[1] Bearing unit and adapter sleeve to be ordered separately

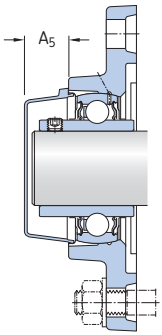
Designations Bearing unit without adapter sleeve	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting** speed	**Mass** Bearing unit + sleeve
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FYJ 65 KF	FYJ 513	YSA 213-2FK	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	13.5 *6,20*
FYJ 65 KF	FYJ 513	YSA 213-2FK	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	13.5 *6,10*
FYJ 65 KF	FYJ 513	YSA 213-2FK	12 870 *57,2*	9 000 *40*	380 *1,7*	3 000	13.5 *6,00*

Flanged Y-bearing units with a cast housing with an oval flange and grub screws, metric shafts

d **12 – 50** mm



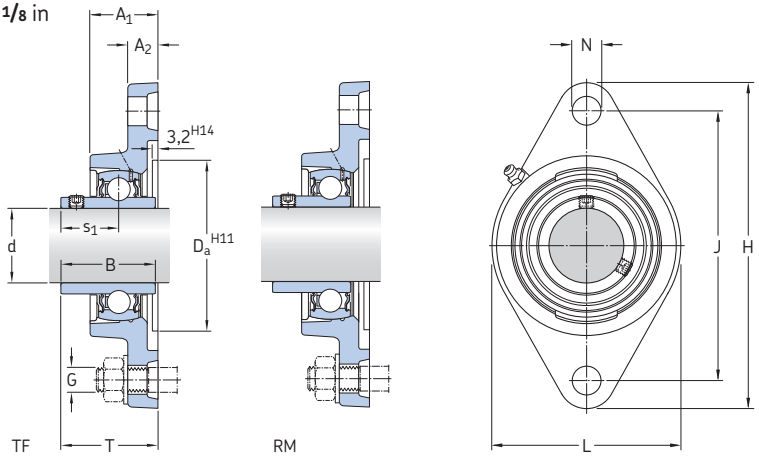
Dimensions												Basic load ratings		Fatigue load limit	Limiting speed	Designation
												dynamic	static		with shaft tolerance	Bearing unit
d	A_1	A_2	B	D_a	H	J	L	N	G	s_1	T	C	C_0	P_u	h6	
mm												kN		kN	r/min	–
12	26	11	27,4	50,8	98,5	76,5	57	11,5	10	15,9	32,9	9,56	4,75	0,2	9 500	**FYTB 12 TF**
15	26	11	27,4	50,8	98,5	76,5	57	11,5	10	15,9	32,9	9,56	4,75	0,2	9 500	**FYTB 15 TF**
17	26	11	27,4	50,8	98,5	76,5	57	11,5	10	15,9	32,9	9,56	4,75	0,2	9 500	**FYTB 17 TF**
20	29,5	11	31	50,8	112	90	60,5	11,5	10	18,3	37,3	12,7	6,55	0,28	8 500	**FYTB 20 TF**
	25,5	12	31	50,8	112	90	60	12	10	18,3	33,3	12,7	6,55	0,28	8 500	**FYTJ 20 TF**
	29,5	11	31	50,8	112	90	60,5	11,5	10	18,3	37,3	12,7	6,55	0,28	5 000	**FYTB 20 TR**
25	30	12	34,1	63,5	124	99	70	11,5	10	19,8	38,8	14	7,8	0,335	7 000	**FYTB 25 TF**
	27	14	34,1	63,5	130	99	68	16	14	19,8	35,8	14	7,8	0,335	7 000	**FYTJ 25 TF**
	30	12	34,1	63,5	124	99	70	11,5	10	19,8	38,8	14	7,8	0,335	4 300	**FYTB 25 TR**
30	32,5	13	38,1	76,2	141,5	116,5	83	11,5	10	22,2	42,2	19,5	11,2	0,475	6 300	**FYTB 30 TF**
	30,5	13,5	38,1	76,2	148	117	80	16	14	22,2	40,2	19,5	11,2	0,475	6 300	**FYTJ 30 TF**
	32,5	13	38,1	76,2	141,5	116,5	83	11,5	10	22,2	42,2	19,5	11,2	0,475	3 800	**FYTB 30 TR**
35	34,5	13	42,9	88,9	156	130	96	14	12	25,4	46,4	25,5	15,3	0,655	5 300	**FYTB 35 TF**
	34	16	42,9	88,9	161	130	96	16	14	25,4	44,4	25,5	15,3	0,655	5 300	**FYTJ 35 TF**
	34,5	13	42,9	88,9	156	130	96	14	12	25,4	46,4	25,5	15,3	0,655	3 200	**FYTB 35 TR**
40	38,5	14	49,2	88,9	171,5	143,5	102	14	12	30,2	54,2	30,7	19	0,8	4 800	**FYTB 40 TF**
	36	16	49,2	88,9	175	144	100	16	14	30,2	51,2	30,7	19	0,8	4 800	**FYTJ 40 TF**
	38,5	14	49,2	88,9	171,5	143,5	102	14	12	30,2	54,2	30,7	19	0,8	2 800	**FYTB 40 TR**
45	39	14	49,2	98,4	178,5	148,5	111	16	14	30,2	54,2	33,2	21,6	0,915	4 300	**FYTB 45 TF**
	38	18	49,2	98,4	188	148	108	19	16	30,2	52,2	33,2	21,6	0,915	4 300	**FYTJ 45 TF**
	39	14	49,2	98,4	178,5	148,5	111	16	14	30,2	54,2	33,2	21,6	0,915	2 400	**FYTB 45 TR**
50	43	15	51,6	101,6	189	157	116	18	16	32,6	60,6	35,1	23,2	0,98	4 000	**FYTB 50 TF**
	40	18	51,6	101,6	195	157	115	19	16	32,6	54,6	35,1	23,2	0,98	4 000	**FYTJ 50 TF**
	43	15	51,6	101,6	189	157	116	18	16	32,6	60,6	35,1	23,2	0,98	2 200	**FYTB 50 TR**



Designations			Mass	Appropriate end cover	
Bearing unit	Separate components		Bearing unit	Designation	Dimension
	Housing	Bearing			A_5
–			kg	–	mm
FYTB 12 TF	FYTB 503 M	YAR 203/12-2F	0,42	–	–
FYTB 15 TF	FYTB 503 M	YAR 203/15-2F	0,40	–	–
FYTB 17 TF	FYTB 503 M	YAR 203-2F	0,39	–	–
FYTB 20 TF	FYTB 504 M	YAR 204-2F	0,50	ECY 204	18,5
FYTJ 20 TF	FYTJ 504	YAR 204-2F	0,43	–	–
FYTB 20 TR	FYTB 504 M	YAR 204-2RF	0,50	ECY 204	18,5
FYTB 25 TF	FYTB 505 M	YAR 205-2F	0,63	ECY 205	18
FYTJ 25 TF	FYTJ 505	YAR 205-2F	0,58	–	–
FYTB 25 TR	FYTB 505 M	YAR 205-2RF	0,63	ECY 205	18
FYTB 30 TF	FYTB 506 M	YAR 206-2F	0,93	ECY 206	20
FYTJ 30 TF	FYTJ 506	YAR 206-2F	0,93	–	–
FYTB 30 TR	FYTB 506 M	YAR 206-2RF	0,93	ECY 206	20
FYTB 35 TF	FYTB 507 M	YAR 207-2F	1,25	ECY 207	22
FYTJ 35 TF	FYTJ 507	YAR 207-2F	1,15	–	–
FYTB 35 TR	FYTB 507 M	YAR 207-2RF	1,25	ECY 207	22
FYTB 40 TF	FYTB 508 M	YAR 208-2F	1,65	ECY 208	23,5
FYTJ 40 TF	FYTJ 508	YAR 208-2F	1,55	–	–
FYTB 40 TR	FYTB 508 M	YAR 208-2RF	1,65	ECY 208	23,5
FYTB 45 TF	FYTB 509 M	YAR 209-2F	1,80	ECY 209	23
FYTJ 45 TF	FYTJ 509	YAR 209-2F	2,20	–	–
FYTB 45 TR	FYTB 509 M	YAR 209-2RF	1,80	ECY 209	23
FYTB 50 TF	FYTB 510 M	YAR 210-2F	2,15	ECY 210	29,5
FYTJ 50 TF	FYTJ 510	YAR 210-2F	3,10	–	–
FYTB 50 TR	FYTB 510 M	YAR 210-2RF	2,15	ECY 210	29,5

Flanged Y-bearing units with a cast housing with an oval flange and grub screws, inch shafts

d **1/2 – 1 1/8** in

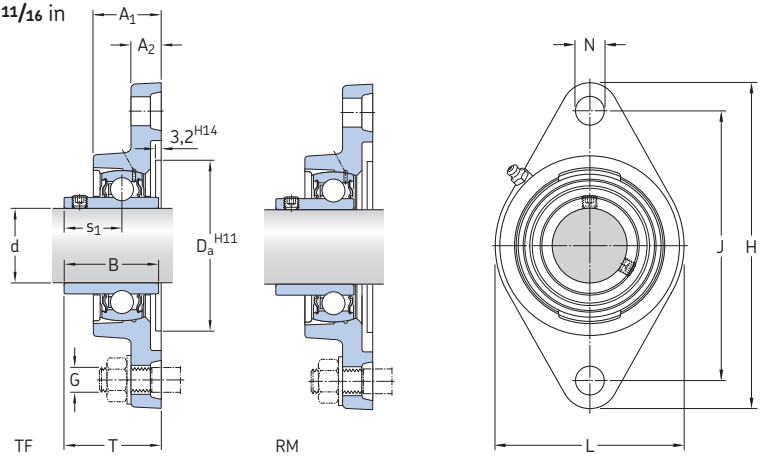


Dimensions											Designation Bearing unit
d	A_1	A_2	B	H	J	L	N	G	s_1	T	
in/*mm*											–
1/2	0.92	0.45	0.89	3.88	3.00	2.13	0.44	3/8	0.63	1.20	**FYT 1/2 RM**
12,7	*23,4*	*11,5*	*22,5*	*98,5*	*76,2*	*54*	*11,1*	*10*	*16*	*30,6*	
	0.92	0.45	1.08	3.88	3.00	2.13	0.44	3/8	0.63	1.20	**FYT 1/2 TF**
	23,4	*11,5*	*27,4*	*98,5*	*76,2*	*54*	*11,1*	*10*	*15,9*	*30,6*	
5/8	0.92	0.45	0.89	3.88	3.00	2.13	0.44	3/8	0.63	1.20	**FYT 5/8 RM**
15,875	*23,4*	*11,5*	*22,5*	*98,5*	*76,2*	*54*	*11,1*	*10*	*16*	*30,6*	
	0.92	0.45	1.08	3.88	3.00	2.13	0.44	3/8	0.63	1.20	**FYT 5/8 TF**
	23,4	*11,5*	*27,4*	*98,5*	*76,2*	*54*	*11,1*	*10*	*15,9*	*30,6*	
3/4	0.97	0.44	1.00	4.41	3.53	2.38	0.44	3/8	0.72	1.28	**FYT 3/4 RM**
19,05	*24,6*	*11,1*	*25,5*	*111,9*	*89,7*	*60,5*	*11,1*	*10*	*18,3*	*32,6*	
	0.97	0.44	1.22	4.41	3.53	2.38	0.44	3/8	0.72	1.28	**FYT 3/4 TF/AH**
	24,6	*11,1*	*31*	*111,9*	*89,7*	*60,5*	*11,1*	*10*	*18,3*	*32,6*	
	1.16	0.43	1.22	4.41	3.54	2.38	0.45	3/8	0.72	1.47	**FYTB 3/4 TF**
	29,5	*11*	*31*	*112*	*90*	*60,5*	*11,5*	*10*	*18,3*	*37,3*	
	1.00	0.47	1.22	4.41	3.54	2.36	0.47	3/8	0.72	1.31	**FYTJ 3/4 TF**
	25,5	*12*	*31*	*112*	*90*	*60*	*12*	*10*	*18,3*	*33,3*	
7/8	1.18	0.47	1.34	4.88	3.89	2.76	0.50	7/16	0.78	1.53	**FYT 7/8 TF**
22,225	*30*	*12*	*34,1*	*124*	*98,8*	*70*	*12,7*	*11*	*19,8*	*38,8*	
15/16	1.18	0.47	1.07	4.88	3.89	2.76	0.50	7/16	0.77	1.53	**FYT 15/16 RM**
23,813	*30*	*12*	*27,2*	*124*	*98,8*	*70*	*12,7*	*11*	*19,5*	*38,8*	
	1.18	0.47	1.34	4.88	3.89	2.76	0.50	7/16	0.78	1.53	**FYT 15/16 TF**
	30	*12*	*34,1*	*124*	*98,8*	*70*	*12,7*	*10*	*19,8*	*38,8*	
1	1.18	0.47	1.07	4.88	3.89	2.76	0.50	7/16	0.77	1.53	**FYT 1. RM**
25,4	*30*	*12*	*27,2*	*124*	*98,8*	*70*	*12,7*	*10*	*19,5*	*38,8*	
	1.18	0.47	1.34	4.88	3.89	2.76	0.50	7/16	0.78	1.53	**FYT 1. TF**
	30	*12*	*34,1*	*124*	*98,8*	*70*	*12,7*	*10*	*19,8*	*38,8*	
	1.18	0.47	1.34	4.88	3.90	2.76	0.45	3/8	0.78	1.53	**FYTB 1. TF**
	30	*12*	*34,1*	*124*	*99*	*70*	*11,5*	*10*	*19,8*	*38,8*	
	1.06	0.55	1.34	5.12	3.90	2.68	0.63	9/16	0.78	1.41	**FYTJ 1. TF**
	27	*14*	*34,1*	*130*	*99*	*68*	*16*	*14*	*19,8*	*35,8*	
1 1/8	1.28	0.51	1.50	5.57	4.60	3.27	0.50	7/16	0.87	1.66	**FYT 1.1/8 TF**
28,575	*32,5*	*13*	*38,1*	*141,5*	*116,9*	*83*	*12,7*	*10*	*22,2*	*42,2*	

Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load** limit P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbs/*kN*		lbs/*kN*	r/min	lb/*kg*
FYT 1/2 RM	FYT 503 U	YAT 203-008	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	0.68 *0,31*
FYT 1/2 TF	FYT 503 U	YAR 203-008-2F	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	0.73 *0,33*
FYT 5/8 RM	FYT 503 U	YAT 203-010	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	0.66 *0,30*
FYT 5/8 TF	FYT 503 U	YAR 203-010-2F	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	0.68 *0,31*
FYT 3/4 RM	FYT 504 U	YAT 204-012	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.05 *0,47*
FYT 3/4 TF/AH	FYT 504 U/AH	YAR 204-012-2F/AH	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.10 *0,50*
FYTB 3/4 TF	FYTB 504 M	YAR 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.10 *0,50*
FYTJ 3/4 TF	FYTJ 504	YAR 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	0.95 *0,43*
FYT 7/8 TF	FYT 505 U	YAR 205-014-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.45 *0,66*
FYT 15/16 RM	FYT 505 U	YAT 205-015	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.35 *0,61*
FYT 15/16 TF	FYT 505 U	YAR 205-015-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.40 *0,64*
FYT 1. RM	FYT 505 U	YAT 205-100	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.30 *0,60*
FYT 1. TF	FYT 505 U	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.30 *0,60*
FYTB 1. TF	FYTB 505 M	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.40 *0,63*
FYTJ 1. TF	FYTJ 505	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.30 *0,58*
FYT 1.1/8 TF	FYT 506 U	YAR 206-102-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.10 *0,95*

Flanged Y-bearing units with a cast housing with an oval flange and grub screws, inch shafts

d **1 3/16 – 1 11/16** in

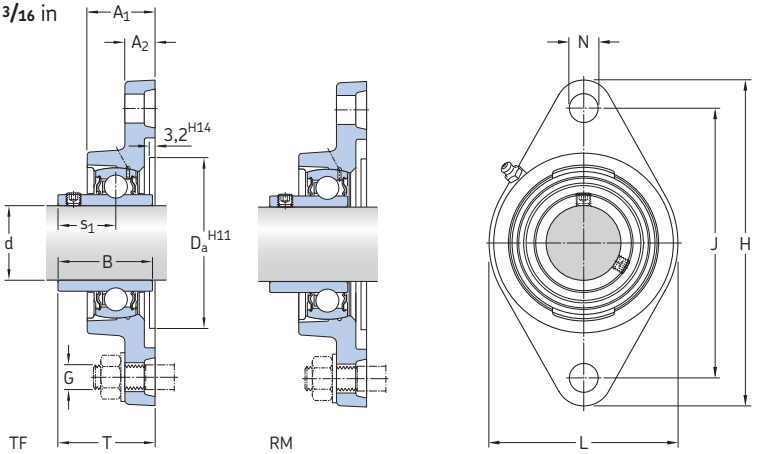


Dimensions											Designation Bearing unit
d	A_1	A_2	B	H	J	L	N	G	s_1	T	
in/*mm*											–
1 3/16	1.28	0.51	1.22	5.57	4.60	3.27	0.50	7/16	0.87	1.66	**FYT 1.3/16 RM**
30,163	*32,5*	*13*	*31*	*141,5*	*116,9*	*83*	*12,7*	*10*	*22*	*42,2*	
	1.28	0.51	1.50	5.57	4.60	3.27	0.50	7/16	0.87	1.66	**FYT 1.3/16 TF**
	32,5	*13*	*38,1*	*141,5*	*116,9*	*83*	*12,7*	*10*	*22,2*	*42,2*	
1 1/4	1.36	0.51	1.38	6.14	5.13	3.78	0.56	1/2	1.00	1.83	**FYT 1.1/4 RM**
31,75	*34,5*	*13*	*35*	*156*	*130,2*	*96*	*14,3*	*12*	*25,5*	*46,4*	
	1.36	0.51	1.69	6.14	5.12	3.78	0.55	1/2	1.00	1.83	**FYTB 1.1/4 TF**
	34,5	*13*	*42,9*	*156*	*130*	*96*	*14*	*12*	*25,4*	*46,4*	
	1.34	0.63	1.69	6.34	5.12	3.78	0.63	9/16	1.00	1.75	**FYTJ 1.1/4 TF**
	34	*16*	*42,9*	*161*	*130*	*96*	*16*	*14*	*25,4*	*44,4*	
1 5/16	1.36	0.51	1.69	6.14	5.13	3.78	0.56	1/2	1.00	1.83	**FYT 1.5/16 TF**
33,338	*34,5*	*13*	*42,9*	*156*	*130,2*	*96*	*14,3*	*12*	*25,4*	*46,4*	
1 3/8	1.36	0.51	1.38	6.14	5.13	3.78	0.56	1/2	1.00	1.83	**FYT 1.3/8 RM**
34,925	*34,5*	*13*	*35*	*156*	*130,2*	*96*	*14,3*	*12*	*25,5*	*46,4*	
	1.36	0.51	1.69	6.14	5.13	3.78	0.56	1/2	1.00	1.83	**FYT 1.3/8 TF**
	34,5	*13*	*42,9*	*156*	*130,2*	*96*	*14,3*	*12*	*25,4*	*46,4*	
1 7/16	1.36	0.51	1.38	6.14	5.13	3.78	0.56	1/2	1.00	1.83	**FYT 1.7/16 RM**
36,513	*34,5*	*13*	*35*	*156*	*130,2*	*96*	*14,3*	*12*	*25,5*	*46,4*	
	1.36	0.51	1.69	6.14	5.13	3.78	0.56	1/2	1.00	1.83	**FYT 1.7/16 TF**
	34,5	*13*	*42,9*	*156*	*130,2*	*96*	*14,3*	*12*	*25,4*	*46,4*	
1 1/2	1.52	0.55	1.57	6.75	5.66	4.02	0.56	1/2	1.12	2.07	**FYT 1.1/2 RM**
38,1	*38,5*	*14*	*40*	*171,5*	*143,7*	*102*	*14,3*	*12*	*28,5*	*52,6*	
	1.52	0.55	1.94	6.75	5.66	4.02	0.56	1/2	1.19	2.13	**FYT 1.1/2 TF**
	38,5	*14*	*49,2*	*171,5*	*143,7*	*102*	*14,3*	*12*	*30,2*	*54,2*	
	1.52	0.55	1.94	6.75	5.65	4.02	0.55	1/2	1.19	2.13	**FYTB 1.1/2 TF**
	38,5	*14*	*49,2*	*171,5*	*143,5*	*102*	*14*	*12*	*30,2*	*54,2*	
	1.42	0.63	1.94	6.89	5.67	3.94	0.63	9/16	1.19	2.02	**FYTJ 1.1/2 TF**
	36	*16*	*49,2*	*175*	*144*	*100*	*16*	*14*	*30,2*	*51,2*	
1 5/8	1.54	0.55	1.94	7.03	5.84	4.37	0.63	9/16	1.19	2.13	**FYT 1.5/8 TF**
41,275	*39*	*14*	*49,2*	*178,5*	*148,4*	*111*	*15,9*	*14*	*30,2*	*54,2*	
1 11/16	1.54	0.55	1.63	7.03	5.84	4.37	0.63	9/16	1.20	2.13	**FYT 1.11/16 RM**
42,863	*39*	*14*	*41,5*	*178,5*	*148,4*	*111*	*15,9*	*14*	*30,5*	*54,2*	
	1.54	0.55	1.94	7.03	5.84	4.37	0.63	9/16	1.19	2.13	**FYT 1.11/16 TF**
	39	*14*	*49,2*	*178,5*	*148,4*	*111*	*15,9*	*14*	*30,2*	*54,2*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load** limit P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbs/*kN*		lbs/*kN*	r/min	lb/*kg*
FYT 1.3/16 RM	FYT 506 U	YAT 206-103	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	1.95 *0,88*
FYT 1.3/16 TF	FYT 506 U	YAR 206-103-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.05 *0,93*
FYT 1.1/4 RM	FYT 507 U	YAT 207-104	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.65 *1,21*
FYTB 1.1/4 TF	FYTB 507 U	YAR 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.10 *1,40*
FYTJ 1.1/4 TF	FYTJ 507 U	YAR 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.85 *1,30*
FYT 1.5/16 TF	FYT 507 U	YAR 207-105-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.85 *1,30*
FYT 1.3/8 RM	FYT 507 U	YAT 207-106	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.60 *1,15*
FYT 1.3/8 TF	FYT 507 U	YAR 207-106-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.80 *1,27*
FYT 1.7/16 RM	FYT 507 U	YAT 207-107	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.50 *1,14*
FYT 1.7/16 TF	FYT 507 U	YAR 207-107-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.75 *1,25*
FYT 1.1/2 RM	FYT 508 U	YAT 208-108	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.55 *1,60*
FYT 1.1/2 TF	FYT 508 U	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.60 *1,70*
FYTB 1.1/2 TF	FYTB 508 M	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.75 *1,70*
FYTJ 1.1/2 TF	FYTJ 508	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.55 *1,60*
FYT 1.5/8 TF	FYT 509 U	YAR 209-110-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.20 *1,90*
FYT 1.11/16 RM	FYT 509 U	YAT 209-111	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	3.85 *1,74*
FYT 1.11/16 TF	FYT 509 U	YAR 209-111-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.10 *1,86*

Flanged Y-bearing units with a cast housing with an oval flange and grub screws, inch shafts

d **1 3/4 – 2 3/16** in

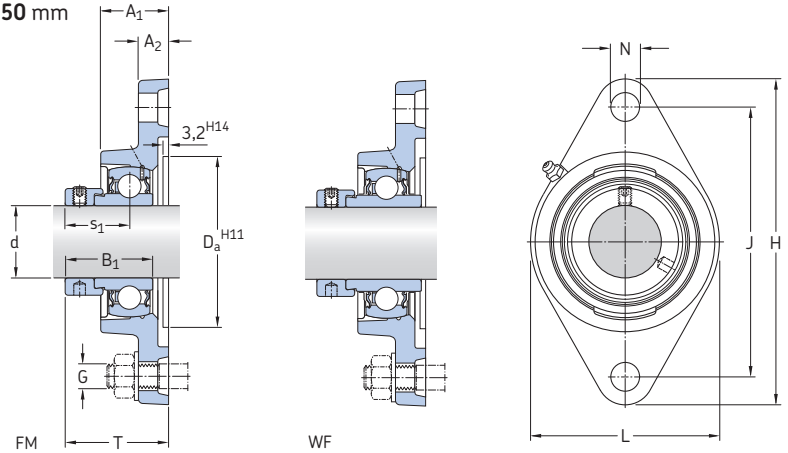


Dimensions											Designation Bearing unit
d	A_1	A_2	B	H	J	L	N	G	s_1	T	
in/*mm*											–
1 3/4	1.54	0.55	1.63	7.03	5.84	4.37	0.63	9/16	1.20	2.13	**FYT 1.3/4 RM**
44,45	*39*	*14*	*41,5*	*178,5*	*148,4*	*111*	*15,9*	*14*	*30,5*	*54,2*	
	1.54	0.55	1.94	7.03	5.84	4.37	0.63	9/16	1.19	2.13	**FYT 1.3/4 TF**
	39	*14*	*49,2*	*178,5*	*148,4*	*111*	*15,9*	*14*	*30,2*	*54,2*	
	1.54	0.55	1.94	7.03	5.85	4.37	0.63	9/16	1.19	2.13	**FYTB 1.3/4 TF**
	39	*14*	*49,2*	*178,5*	*148,5*	*111*	*16*	*14*	*30,2*	*54,2*	
	1.50	0.71	1.94	7.40	5.83	4.25	0.75	5/8	1.19	2.06	**FYTJ 1.3/4 TF**
	38	*18*	*49,2*	*188*	*148*	*108*	*19*	*16*	*30,2*	*52,2*	
1 15/16	1.69	0.59	1.69	7.44	6.19	4.57	0.63	9/16	1.26	2.37	**FYT 1.15/16 RM**
49,213	*43*	*15*	*43*	*189*	*157,2*	*116*	*15,9*	*14*	*32*	*60,1*	
	1.69	0.59	2.03	7.44	6.19	4.57	0.63	9/16	1.28	2.39	**FYT 1.15/16 TF**
	43	*15*	*51,6*	*189*	*157,2*	*116*	*15,9*	*14*	*32,6*	*60,6*	
2	1.88	0.81	1.77	8.50	7.25	5.00	0.75	5/8	1.28	2.45	**FYT 2. RM**
50,8	*47,6*	*20,6*	*45*	*216*	*184,2*	*127*	*19*	*16*	*32,5*	*62,3*	
	1.88	0.81	2.19	8.50	7.25	5.00	0.75	5/8	1.32	2.47	**FYT 2. TF**
	47,6	*20,6*	*55,6*	*216*	*184,2*	*127*	*19*	*16*	*33,4*	*62,8*	
2 3/16	1.88	0.81	1.77	8.50	7.25	5.00	0.75	5/8	1.28	2.45	**FYT 2.3/16 RM**
55,563	*47,6*	*20,6*	*45*	*216*	*184,2*	*127*	*19*	*16*	*32,5*	*62,3*	
	1.88	0.81	2.19	8.50	7.25	5.00	0.75	5/8	1.32	2.47	**FYT 2.3/16 TF**
	47,6	*20,6*	*55,6*	*216*	*184,2*	*127*	*19*	*16*	*33,4*	*62,8*	

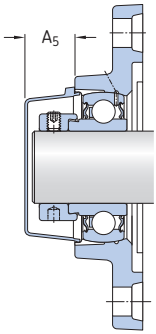
Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load** limit P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbs/*kN*		lbs/*kN*	r/min	lb/*kg*
FYT 1.3/4 RM	FYT 509 U	YAT 209-112	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	3.75 *1,70*
FYT 1.3/4 TF	FYT 509 U	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	3.95 *1,80*
FYTB 1.3/4 TF	FYTB 509 M	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	3.95 *1,80*
FYTJ 1.3/4 TF	FYTJ 509	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.85 *2,20*
FYT 1.15/16 RM	FYT 510 U	YAT 210-115	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	4.65 *2,10*
FYT 1.15/16 TF	FYT 510 U	YAR 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	4.95 *2,25*
FYT 2. RM	FYT 511 U	YAT 211-200	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.30 *3,30*
FYT 2. TF	FYT 511 U	YAR 211-200-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.60 *3,45*
FYT 2.3/16 RM	FYT 511 U	YAT 211-203	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	6.90 *3,10*
FYT 2.3/16 TF	FYT 511 U	YAR 211-203-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.20 *3,25*

Flanged Y-bearing units with a cast housing with an oval flange and an eccentric locking collar, metric shafts

d **15 – 50** mm



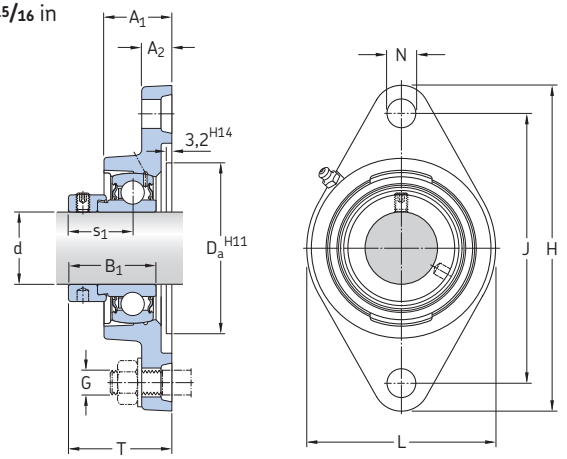
Dimensions												Basic load ratings dynamic	static	Fatigue load limit	Limiting speed with shaft tolerance h6	Designation Bearing unit
d	A_1	A_2	B_1	D_a	H	J	L	N	G	s_1	T	C	C_0	P_u		
mm												kN		kN	r/min	–
15	26	11	28,6	50,8	98,5	76,5	57	11,5	10	22,1	39,1	9,56	4,75	0,2	9 500	**FYTB 15 FM**
17	26	11	28,6	50,8	98,5	76,5	57	11,5	10	22,1	39,1	9,56	4,75	0,2	9 500	**FYTB 17 FM**
20	29,5	11	31	50,8	112	90	60,5	11,5	10	23,5	42,5	12,7	6,55	0,28	8 500	**FYTB 20 FM**
	29,5	11	43,7	50,8	112	90	60,5	11,5	10	26,6	45,6	12,7	6,55	0,28	8 500	**FYTB 20 WF**
25	30	12	31	63,5	124	99	70	11,5	10	23,5	42,5	14	7,8	0,335	7 000	**FYTB 25 FM**
	30	12	44,4	63,5	124	99	70	11,5	10	26,9	45,9	14	7,8	0,335	7 000	**FYTB 25 WF**
30	32,5	13	35,7	76,2	141,5	116,5	83	11,5	10	26,7	46,7	19,5	11,2	0,475	6 300	**FYTB 30 FM**
	32,5	13	48,4	76,2	141,5	116,5	83	11,5	10	30,1	50,1	19,5	11,2	0,475	6 300	**FYTB 30 WF**
35	34,5	13	38,9	88,9	156	130	96	14	12	29,4	50,4	25,5	15,3	0,655	5 300	**FYTB 35 FM**
	34,5	13	51,1	88,9	156	130	96	14	12	32,3	53,3	25,5	15,3	0,655	5 300	**FYTB 35 WF**
40	38,5	14	43,7	88,9	171,5	143,5	102	14	12	32,7	56,7	30,7	19	0,8	4 800	**FYTB 40 FM**
	38,5	14	56,3	88,9	171,5	143,5	102	14	12	34,9	58,9	30,7	19	0,8	4 800	**FYTB 40 WF**
45	39	14	43,7	98,4	178,5	148,5	111	16	14	32,7	56,7	33,2	21,6	0,915	4 300	**FYTB 45 FM**
	39	14	56,3	98,4	178,5	148,5	111	16	14	34,9	58,9	33,2	21,6	0,915	4 300	**FYTB 45 WF**
50	43	15	43,7	101,6	189	157	116	18	16	32,7	60,7	35,1	23,2	0,98	4 000	**FYTB 50 FM**
	43	15	62,7	101,6	189	157	116	18	16	38,1	66,1	35,1	23,2	0,98	4 000	**FYTB 50 WF**



Designations Bearing unit	Separate components Housing	Bearing	**Mass** Bearing unit	**Appropriate end cover** Designation	Dimension A_5
–			kg	–	mm
FYTB 15 FM	FYTB 503 M	YET 203/15	0,42	–	–
FYTB 17 FM	FYTB 503 M	YET 203	0,41	–	–
FYTB 20 FM	FYTB 504 M	YET 204	0,52	ECY 204	18,5
FYTB 20 WF	FYTB 504 M	YEL 204-2F	0,55	ECY 204	18,5
FYTB 25 FM	FYTB 505 M	YET 205	0,64	ECY 205	18
FYTB 25 WF	FYTB 505 M	YEL 205-2F	0,69	ECY 205	18
FYTB 30 FM	FYTB 506 M	YET 206	0,95	ECY 206	20
FYTB 30 WF	FYTB 506 M	YEL 206-2F	1,00	ECY 206	20
FYTB 35 FM	FYTB 507 M	YET 207	1,30	ECY 207	22
FYTB 35 WF	FYTB 507 M	YEL 207-2F	1,40	ECY 207	22
FYTB 40 FM	FYTB 508 M	YET 208	1,70	ECY 208	23,5
FYTB 40 WF	FYTB 508 M	YEL 208-2F	1,80	ECY 208	23,5
FYTB 45 FM	FYTB 509 M	YET 209	1,85	ECY 209	23
FYTB 45 WF	FYTB 509 M	YEL 209-2F	1,95	ECY 209	23
FYTB 50 FM	FYTB 510 M	YET 210	2,20	ECY 210	29,5
FYTB 50 WF	FYTB 510 M	YEL 210-2F	2,35	ECY 210	29,5

Flanged Y-bearing units with a cast housing with an oval flange and an eccentric locking collar, inch shafts

d **1/2 – 1 15/16** in

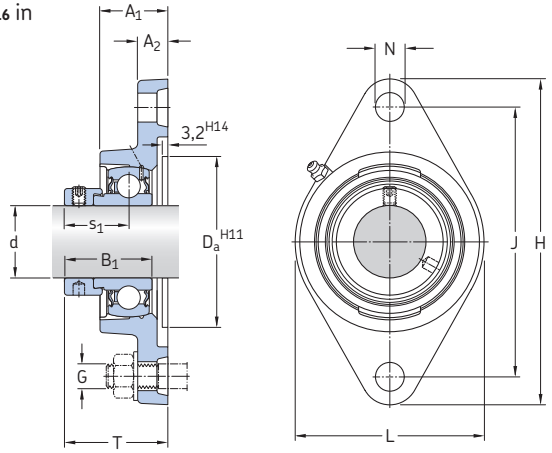


Dimensions											Designation Bearing unit
d	A_1	A_2	B_1	H	J	L	N	G	s_1	T	
in/*mm*											–
1/2 *12,7*	0.92 *23,4*	0.45 *11,5*	1.13 *26,6*	3.88 *98,5*	3.00 *76,2*	2.13 *54*	0.44 *11,1*	3/8 *10*	0.87 *22,1*	1.45 *36,8*	**FYT 1/2 FM**
5/8 *15,875*	0.92 *23,4*	0.45 *11,5*	1.13 *28,6*	3.88 *98,5*	3.00 *76,2*	2.13 *54*	0.44 *11,1*	3/8 *10*	0.87 *22,1*	1.45 *36,8*	**FYT 5/8 FM**
3/4 *19,05*	0.97 *24,6*	0.44 *11,1*	1.22 *31*	4.41 *112*	3.53 *89,7*	2.38 *60,3*	0.44 *11,1*	3/8 *10*	0.93 *23,5*	1.49 *37,8*	**FYT 3/4 FM**
7/8 *22,225*	1.18 *30*	0.47 *12*	1.22 *31*	4.88 *124*	3.89 *98,8*	2.76 *70*	0.50 *12,7*	7/16 *10*	0.93 *23,5*	1.67 *42,5*	**FYT 7/8 FM**
15/16 *23,813*	1.18 *30*	0.47 *12*	1.22 *31*	4.88 *124*	3.89 *98,8*	2.76 *70*	0.50 *12,7*	7/16 *10*	0.93 *23,5*	1.67 *42,5*	**FYT 15/16 FM**
1 *25,4*	1.18 *30*	0.47 *12*	1.22 *31*	4.88 *124*	3.89 *98,8*	2.76 *70*	0.50 *12,7*	7/16 *10*	0.93 *23,5*	1.67 *42,5*	**FYT 1. FM**
1 1/8 *28,575*	1.28 *32,5*	0.51 *13*	1.41 *35,7*	5.57 *141,5*	4.59 *116,9*	3.27 *83*	0.50 *12,7*	7/16 *10*	1.05 *26,7*	1.84 *46,7*	**FYT 1.1/8 FM**
1 3/16 *30,163*	1.28 *32,5*	0.51 *13*	1.41 *35,7*	5.57 *141,5*	4.59 *116,9*	3.27 *83*	0.50 *12,7*	7/16 *10*	1.05 *26,7*	1.84 *46,7*	**FYT 1.3/16 FM**
1 1/4 *31,75*	1.36 *34,5*	0.51 *13*	1.53 *38,9*	6.14 *156*	5.13 *130,2*	3.78 *96*	0.56 *14,3*	1/2 *12*	1.16 *29,4*	1.98 *50,4*	**FYT 1.1/4 FM**
1 3/8 *34,925*	1.36 *34,5*	0.51 *13*	1.53 *38,9*	6.14 *156*	5.13 *130,2*	3.78 *96*	0.56 *14,3*	1/2 *12*	1.16 *29,4*	1.98 *50,4*	**FYT 1.3/8 FM**
1 7/16 *36,513*	1.36 *34,5*	0.51 *13*	1.53 *38,9*	6.14 *156*	5.13 *130,2*	3.78 *96*	0.56 *14,3*	1/2 *12*	1.16 *29,4*	1.98 *50,4*	**FYT 1.7/16 FM**
1 1/2 *38,1*	1.52 *38,5*	0.55 *14*	1.72 *43,7*	6.75 *171,5*	5.66 *143,7*	4.02 *102*	0.56 *14,3*	1/2 *12*	1.29 *32,7*	2.24 *56,5*	**FYT 1.1/2 FM**
1 3/4 *44,45*	1.54 *39*	0.55 *14*	1.72 *43,7*	7.03 *178,5*	5.84 *148,4*	4.37 *111*	0.63 *15,9*	9/16 *14*	1.29 *32,7*	2.23 *56,7*	**FYT 1.3/4 FM**
1 15/16 *49,213*	1.69 *43*	0.59 *15*	1.72 *43,7*	7.44 *189*	6.19 *157,2*	4.57 *116*	0.63 *15,9*	9/16 *14*	1.29 *32,7*	2.39 *60,7*	**FYT 1.15/16 FM**

Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FYT 1/2 FM	FYT 503 U	YET 203-008	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	0.77 *0,35*
FYT 5/8 FM	FYT 503 U	YET 203-010	2 150 *9,56*	1 070 *4,75*	50 *0,2*	9 500	0.75 *0,34*
FYT 3/4 FM	FYT 504 U	YET 204-012	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.15 *0,53*
FYT 7/8 FM	FYT 505 U	YET 205-014	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.45 *0,67*
FYT 15/16 FM	FYT 505 U	YET 205-015	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.45 *0,66*
FYT 1. FM	FYT 505 U	YET 205-100	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.40 *0,64*
FYT 1.1/8 FM	FYT 506 U	YET 206-102	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.15 *0,98*
FYT 1.3/16 FM	FYT 506 U	YET 206-103	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.15 *0,97*
FYT 1.1/4 FM	FYT 507 U	YET 207-104	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.10 *1,40*
FYT 1.3/8 FM	FYT 507 U	YET 207-106	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.95 *1,35*
FYT 1.7/16 FM	FYT 507 U	YET 207-107	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.90 *1,30*
FYT 1.1/2 FM	FYT 508 U	YET 208-108	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.80 *1,75*
FYT 1.3/4 FM	FYT 509 U	YET 209-112	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.10 *1,85*
FYT 1.15/16 FM	FYT 510 U	YET 210-115	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.05 *2.30*

Flanged Y-bearing units with a cast housing with an oval flange and an eccentric locking collar, inch shafts

d **2 – 2 3/16** in

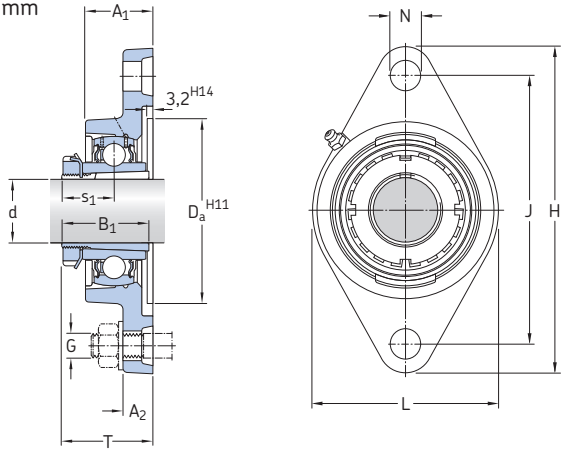


Dimensions											Designation Bearing unit
d	A_1	A_2	B_1	H	J	L	N	G	s_1	T	
in/*mm*											–
2 *50,8*	1.88 *47,6*	0.81 *20,6*	1.91 *48,4*	8.50 *216*	7.25 *184,2*	5.00 *127*	0.75 *19,0*	5/8 *16*	1.43 *36,4*	2.59 *65,8*	**FYT 2. FM**
2 3/16 *55,563*	1.88 *47,6*	0.81 *20,6*	1.91 *48,4*	8.50 *216*	7.25 *184,2*	5.00 *127*	0.75 *19,0*	5/8 *16*	1.43 *36,4*	2.59 *65,8*	**FYT 2.3/16 FM**

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FYT 2. FM	FYT 511 U	YET 211-200	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.60 *3,45*
FYT 2.3/16 FM	FYT 511 U	YET 211-203	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	7.35 *3,35*

Flanged Y-bearing units with a cast housing with an oval flange and an adapter sleeve, metric shafts

d **20 – 45** mm



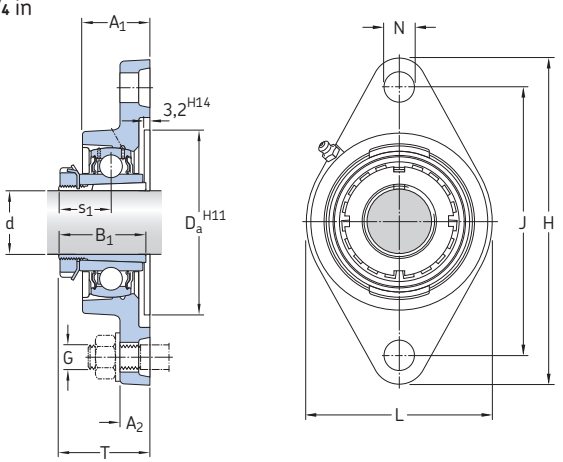
Dimensions												Basic load ratings dynamic	static	Fatigue load limit	Designations[1] Bearing unit	Adapter sleeve
d	A_1	A_2	B_1	D_a	H	J	L	N	G	s_1	T	C	C_0	P_u		
mm												kN		kN	–	
20	27	14	35	63,5	130	99	68	16	14	20	36	14	7,8	0,335	**FYTJ 25 KF**	**H 2305**
25	30,5	13,5	38	76,2	148	117	80	16	14	22	40	19,5	11,2	0,475	**FYTJ 30 KF**	**H 2306**
30	34	16	43	88,9	161	130	96	16	14	24,3	43,3	25,5	15,3	0,655	**FYTJ 35 KF**	**H 2307**
35	36	16	46	88,9	175	144	100	16	14	27	48	30,7	19	0,8	**FYTJ 40 KF**	**H 2308**
40	38	18	50	98,4	188	148	108	19	16	28,5	50,5	33,2	21,6	0,915	**FYTJ 45 KF**	**H 2309**
45	40	18	55	101,6	195	157	115	19	16	30,5	52,5	35,1	23,2	0,98	**FYTJ 50 KF**	**H 2310**

[1] Bearing unit and adapter sleeve to be ordered separately

Designations Bearing unit without adapter sleeve	Separate components of the bearing unit Housing	Bearing	**Limiting speed**	**Mass** Bearing unit + sleeve
–			r/min	kg
FYTJ 25 KF	FYTJ 505	YSA 205-2FK	7 000	0,72
FYTJ 30 KF	FYTJ 506	YSA 206-2FK	6 300	0,83
FYTJ 35 KF	FYTJ 507	YSA 207-2FK	5 300	1,30
FYTJ 40 KF	FYTJ 508	YSA 208-2FK	4 800	1,65
FYTJ 45 KF	FYTJ 509	YSA 209-2FK	4 300	2,20
FYTJ 50 KF	FYTJ 510	YSA 210-2FK	4 000	2,55

Flanged Y-bearing units with a cast housing with an oval flange and an adapter sleeve, inch shafts

d **3/4 – 1 3/4** in



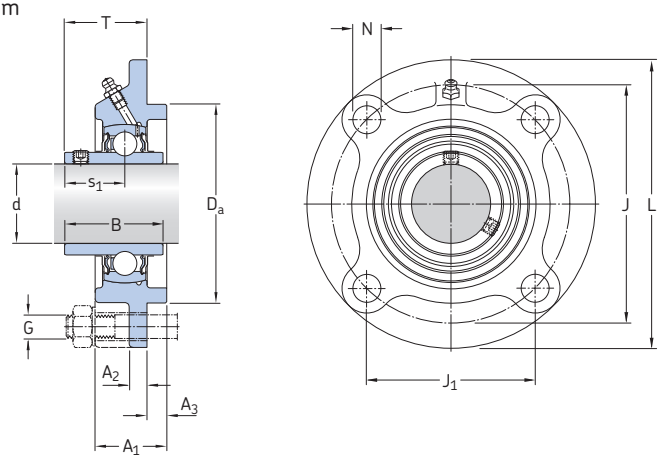
Dimensions												Designations[1]	
												Bearing unit	Adapter sleeve
d	A_1	A_2	B_1	D_a	H	J	L	N	G	s_1	T		
in/*mm*												–	
3/4 *19,05*	1.06 *27*	0.55 *14*	1.38 *35*	2.50 *63,5*	5.12 *130*	3.90 *99*	2.68 *68*	0.63 *16*	9/16 *14*	0.79 *20*	1.42 *36*	**FYTJ 25 KF**	**HE 2305**
15/16 *23,813*	1.20 *30,5*	0.53 *13,5*	1.50 *38*	3.00 *76,2*	5.83 *148*	4.61 *117*	3.15 *80*	0.63 *16*	9/16 *14*	0.87 *22*	1.57 *40*	**FYTJ 30 KF**	**HA 2306**
1 *25,4*	1.20 *30,5*	0.53 *13,5*	1.50 *38*	3.00 *76,2*	5.83 *148*	4.61 *117*	3.15 *80*	0.63 *16*	9/16 *14*	0.87 *22*	1.57 *40*	**FYTJ 30 KF**	**HE 2306**
1 3/16 *30,163*	1.34 *34*	0.63 *16*	1.69 *43*	3.50 *88,9*	6.34 *161*	5.12 *130*	3.78 *96*	0.63 *16*	9/16 *14*	0.96 *24,3*	1.70 *43,3*	**FYTJ 35 KF**	**HA 2307**
1 1/4 *31,75*	1.42 *36*	0.63 *16*	1.81 *46*	3.50 *88,9*	6.89 *175*	5.67 *144*	3.94 *100*	0.63 *16*	9/16 *14*	1.06 *27*	1.89 *48*	**FYTJ 40 KF**	**HE 2308**
1 7/16 *36,513*	1.50 *38*	0.71 *18*	1.97 *50*	3.87 *98,4*	7.40 *188*	5.83 *148*	4.25 *108*	0.75 *19*	5/8 *16*	1.12 *28,5*	1.99 *50,5*	**FYTJ 45 KF**	**HA 2309**
1 1/2 *38,1*	1.50 *38*	0.71 *18*	1.97 *50*	3.87 *98,4*	7.40 *188*	5.83 *148*	4.25 *108*	0.75 *19*	5/8 *16*	1.12 *28,5*	1.99 *50,5*	**FYTJ 45 KF**	**HE 2309**
1 5/8 *41,275*	1.57 *40*	0.71 *18*	2.17 *55*	4.00 *101,6*	7.68 *195*	6.18 *157*	4.53 *115*	0.75 *19*	5/8 *16*	1.20 *30,5*	2.07 *52,5*	**FYTJ 50 KF**	**HS 2310**
1 11/16 *42,863*	1.57 *40*	0.71 *18*	2.17 *55*	4.00 *101,6*	7.68 *195*	6.18 *157*	4.53 *115*	0.75 *19*	5/8 *16*	1.20 *30,5*	2.07 *52,5*	**FYTJ 50 KF**	**HA 2310**
1 3/4 *44,45*	1.57 *40*	0.71 *18*	2.17 *55*	4.00 *101,6*	7.68 *195*	6.18 *157*	4.53 *115*	0.75 *19*	5/8 *16*	1.20 *30,5*	2.07 *52,5*	**FYTJ 50 KF**	**HE 2310**

[1] Bearing unit and adapter sleeve to be ordered separately

Designations Bearing unit without adapter sleeve	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load** limit P_u	**Limiting speed**	**Mass** Bearing unit + sleeve
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
FYTJ 25 KF	FYTJ 505	YSA 205-2FK	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.60 *0,72*
FYTJ 30 KF	FYTJ 506	YSA 206-2FK	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	1.85 *0,83*
FYTJ 30 KF	FYTJ 506	YSA 206-2FK	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	1.85 *0,83*
FYTJ 35 KF	FYTJ 507	YSA 207-2FK	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	2.85 *1,30*
FYTJ 40 KF	FYTJ 508	YSA 208-2FK	6 910 *30,7*	4 280 *19*	180 *0,8*	4 800	3.65 *1,65*
FYTJ 45 KF	FYTJ 509	YSA 209-2FK	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.85 *2,20*
FYTJ 45 KF	FYTJ 509	YSA 209-2FK	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	4.85 *2,20*
FYTJ 50 KF	FYTJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.60 *2,55*
FYTJ 50 KF	FYTJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.60 *2,55*
FYTJ 50 KF	FYTJ 510	YSA 210-2FK	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.60 *2,55*

Flanged Y-bearing units with a cast housing with a round flange and grub screws, metric shafts

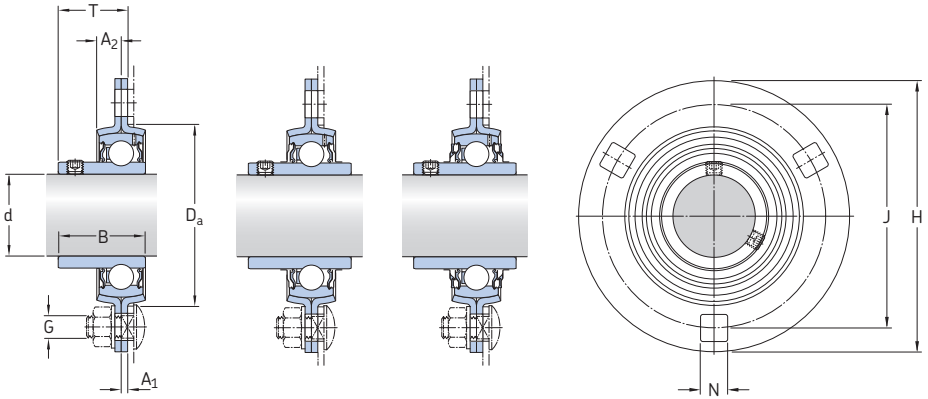
d **20 – 65** mm



Dimesions													**Basic load ratings** dynamic	static	**Fatigue load limit**	**Limiting speed** with shaft tolerance	**Designation** Bearing unit
d	A_1	A_2	A_3	B	D_a h8	J	J_1	L	N	G	s_1	T	C	C_0	P_u	h6	
mm													kN		kN	r/min	–
20	25,5	7	5	31	62	78	55,2	100	12	10	18,3	28,3	12,7	6,55	0,28	8 500	**FYC 20 TF**
25	27	7	6	34,1	70	90	63,6	115	12	10	19,8	29,8	14	7,8	0,335	7 000	**FYC 25 TF**
30	31	8	8	38,1	80	100	70,7	125	12	10	22,2	32,2	19,5	11,2	0,475	6 300	**FYC 30 TF**
35	34	9	8	42,9	90	110	77,8	135	14	12	25,4	36,4	25,5	15,3	0,655	5 300	**FYC 35 TF**
40	36	9	10	49,2	100	120	84,9	145	14	12	30,2	41,2	30,7	19	0,8	4 800	**FYC 40 TF**
45	38	14	12	49,2	105	132	93,3	160	16	14	30,2	40,2	33,2	21,6	0,915	4 300	**FYC 45 TF**
50	40	14	12	51,6	110	138	97,6	165	16	14	32,6	42,6	35,1	23,2	0,98	4 000	**FYC 50 TF**
55	43	15	12	55,6	125	150	106,1	185	19	16	33,4	46,4	43,6	29	1,25	3 600	**FYC 55 TF**
60	48	15	12	65,1	135	160	113,1	195	19	16	39,7	56,7	52,7	36	1,53	3 400	**FYC 60 TF**
65	50	15	14	68,3	145	170	120,2	205	19	16	42,9	58,9	55,9	40	1,7	3 000	**FYC 65 TF**

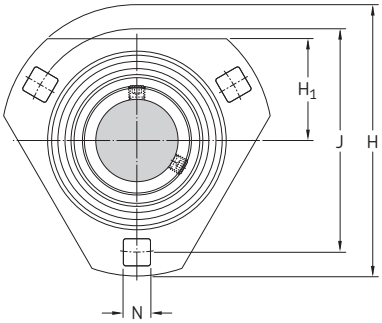
Designations			Mass
Bearing unit	Separate components		Bearing unit
	Housing	Bearing	
–			kg
FYC 20 TF	FYC 504	YAR 204-2F	0,70
FYC 25 TF	FYC 505	YAR 205-2F	0,93
FYC 30 TF	FYC 506	YAR 206-2F	1,35
FYC 35 TF	FYC 507	YAR 207-2F	1,55
FYC 40 TF	FYC 508	YAR 208-2F	2,00
FYC 45 TF	FYC 509	YAR 209-2F	2,65
FYC 50 TF	FYC 510	YAR 210-2F	2,80
FYC 55 TF	FYC 511	YAR 211-2F	4,30
FYC 60 TF	FYC 512	YAR 212-2F	4,90
FYC 65 TF	FYC 513	YAR 213-2F	5,70

Flanged Y-bearing units with a pressed steel housing and grub screws, metric shafts
d **12 – 25** mm



YAT YAR-2F YAR-2RF PF

Dimensions											Basic load ratings		Fatigue load limit	Permissible housing load	Designation
											dynamic	static			Bearing unit
d	A_1	A_2	B	D_a	H	H_1/L	J	N	G	T	C	C_0	P_u	radial	No order designation
mm											kN		kN	kN	–
12	2	7	27,4	49	81	–	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PF 12 TF
	2	7	27,4	49	81	29	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFD 12 TF
	2	7	27,4	49	81	59	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFT 12 TF
15	2	7	27,4	49	81	–	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PF 15 TF
	2	7	27,4	49	81	29	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFD 15 TF
	2	7	27,4	49	81	59	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFT 15 TF
17	2	7	22,1	49	81	–	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PF 17 RM
	2	7	27,4	49	81	–	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PF 17 TF
	2	7	22,1	49	81	29	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFD 17 RM
	2	7	27,4	49	81	29	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFD 17 TF
	2	7	22,1	49	81	59	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFT 17 RM
	2	7	27,4	49	81	59	63	7,1	6	17,9	9,56	4,75	0,2	2,5	PFT 17 TF
20	2	8	25,5	55	91	–	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PF 20 RM
	2	8	31	55	91	–	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PF 20 TF
	2	8	31	55	91	–	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PF 20 TR
	2	8	25,5	55	91	32	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PFD 20 RM
	2	8	31	55	91	32	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PFD 20 TF
	2	8	31	55	91	32	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PFD 20 TR
	2	8	25,5	55	91	67	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PFT 20 RM
	2	8	31	55	91	67	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PFT 20 TF
	2	8	31	55	91	67	71,5	8,7	8	20,3	12,7	6,55	0,28	3,3	PFT 20 TR
25	2	9	27,2	60	95	–	76	8,7	8	21,5	14	7,8	0,335	3,6	PF 25 RM
	2	9	34,1	60	95	–	76	8,7	8	21,8	14	7,8	0,335	3,6	PF 25 TF
	2	9	34,1	60	95	–	76	8,7	8	21,8	14	7,8	0,335	3,6	PF 25 TR
	2	9	27,2	60	95	34	76	8,7	8	21,5	14	7,8	0,335	3,6	PFD 25 RM
	2	9	34,1	60	95	34	76	8,7	8	21,8	14	7,8	0,335	3,6	PFD 25 TF
	2	9	34,1	60	95	34	76	8,7	8	21,8	14	7,8	0,335	3,6	PFD 25 TR
	2	9	27,2	60	95	71	76	8,7	8	21,5	14	7,8	0,335	3,6	PFT 25 RM
	2	9	34,1	60	95	71	76	8,7	8	21,8	14	7,8	0,335	3,6	PFT 25 TF
	2	9	34,1	60	95	71	76	8,7	8	21,8	14	7,8	0,335	3,6	PFT 25 TR



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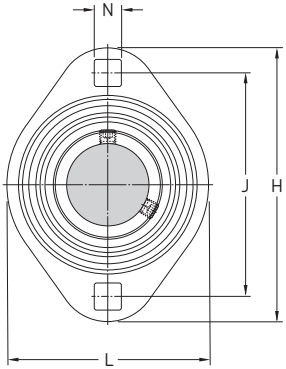
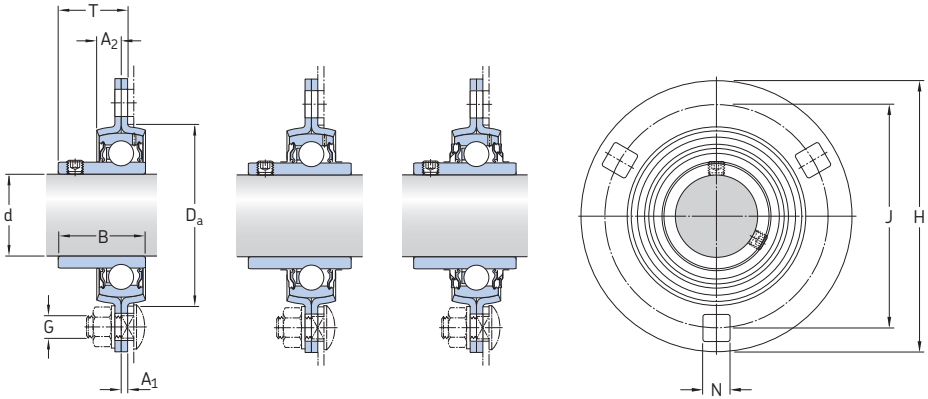


PFT

Designation Bearing unit No order designation	**Order designations** Housing	Bearing	**Mass** Bearing unit
–	–		kg
PF 12 TF	**PF 40**	**YAR 203/12-2F**	0,26
PFD 12 TF	**PFD 40**	**YAR 203/12-2F**	0,19
PFT 12 TF	**PFT 40**	**YAR 203/12-2F**	0,19
PF 15 TF	**PF 40**	**YAR 203/15-2F**	0,25
PFD 15 TF	**PFD 40**	**YAR 203/15-2F**	0,18
PFT 15 TF	**PFT 40**	**YAR 203/15-2F**	0,18
PF 17 RM	**PF 40**	**YAT 203**	0,22
PF 17 TF	**PF 40**	**YAR 203-2F**	0,24
PFD 17 RM	**PFD 40**	**YAT 203**	0,16
PFD 17 TF	**PFD 40**	**YAR 203-2F**	0,17
PFT 17 RM	**PFT 40**	**YAT 203**	0,16
PFT 17 TF	**PFT 40**	**YAR 203-2F**	0,17
PF 20 RM	**PF 47**	**YAT 204**	0,29
PF 20 TF	**PF 47**	**YAR 204-2F**	0,32
PF 20 TR	**PF 47**	**YAR 204-2RF**	0,32
PFD 20 RM	**PFD 47**	**YAT 204**	0,23
PFD 20 TF	**PFD 47**	**YAR 204-2F**	0,26
PFD 20 TR	**PFD 47**	**YAR 204-2RF**	0,26
PFT 20 RM	**PFT 47**	**YAT 204**	0,20
PFT 20 TF	**PFT 47**	**YAR 204-2F**	0,23
PFT 20 TR	**PFT 47**	**YAR 204-2RF**	0,23
PF 25 RM	**PF 52**	**YAT 205**	0,33
PF 25 TF	**PF 52**	**YAR 205-2F**	0,36
PF 25 TR	**PF 52**	**YAR 205-2RF**	0,36
PFD 25 RM	**PFD 52**	**YAT 205**	0,30
PFD 25 TF	**PFD 52**	**YAR 205-2F**	0,33
PFD 25 TR	**PFD 52**	**YAR 205-2RF**	0,33
PFT 25 RM	**PFT 52**	**YAT 205**	0,25
PFT 25 TF	**PFT 52**	**YAR 205-2F**	0,28
PFT 25 TR	**PFT 52**	**YAR 205-2RF**	0,28

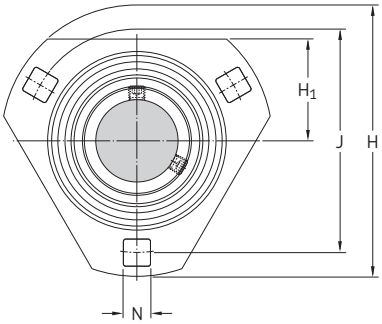
Flanged Y-bearing units with a pressed steel housing and grub screws, metric shafts
d **30 – 50** mm



YAT YAR-2F YAR-2RF PF[1)]

Dimensions											Basic load ratings		Fatigue load limit	Permissible housing load	Designation
											dynamic	static			Bearing unit
d	A_1	A_2	B	D_a	H	H_1/L	J	N	G	T	C	C_0	P_u	radial	No order designation
mm											kN		kN	kN	–
30	2,5	9,5	30,2	71	112	–	90,5	10,5	10	23,5	19,5	11,2	0,475	5	PF 30 RM
	2,5	9,5	38,1	71	112	–	90,5	10,5	10	24,7	19,5	11,2	0,475	5	PF 30 TF
	2,5	9,5	38,1	71	112	–	90,5	10,5	10	24,7	19,5	11,2	0,475	5	PF 30 TR
	2,5	9,5	30,2	71	112	38	90,5	10,5	10	23,5	19,5	11,2	0,475	5	PFD 30 RM
	2,5	9,5	38,1	71	112	38	90,5	10,5	10	24,7	19,5	11,2	0,475	5	PFD 30 TF
	2,5	9,5	38,1	71	112	38	90,5	10,5	10	24,7	19,5	11,2	0,475	5	PFD 30 TR
	2,5	9,5	30,2	71	112	84	90,5	10,5	10	23,5	19,5	11,2	0,475	5	PFT 30 RM
	2,5	9,5	38,1	71	112	84	90,5	10,5	10	24,7	19,5	11,2	0,475	5	PFT 30 TF
	2,5	9,5	38,1	71	112	84	90,5	10,5	10	24,7	19,5	11,2	0,475	5	PFT 30 TR
35	2,5	10	33	81	122	–	100	11	10	25,8	25,5	15,3	0,655	6,5	PF 35 RM
	2,5	10	42,9	81	122	–	100	11	10	27,9	25,5	15,3	0,655	6,5	PF 35 TF
	2,5	10	42,9	81	122	–	100	11	10	27,9	25,5	15,3	0,655	6,5	PF 35 TR
	2,5	10	33	81	122	45	100	11	10	25,8	25,5	15,3	0,655	6,5	PFD 35 RM
	2,5	10	42,9	81	122	45	100	11	10	27,9	25,5	15,3	0,655	6,5	PFD 35 TF
	2,5	10	42,9	81	122	45	100	11	10	27,9	25,5	15,3	0,655	6,5	PFD 35 TR
	2,5	10	33	81	122	94	100	11	10	25,8	25,5	15,3	0,655	6,5	PFT 35 RM
	2,5	10	42,9	81	122	94	100	11	10	27,9	25,5	15,3	0,655	6,5	PFT 35 TF
	2,5	10	42,9	81	122	94	100	11	10	27,9	25,5	15,3	0,655	6,5	PFT 35 TR
40	3,5	10	36	91	148	–	119	13,5	12	28,8	30,7	19	0,8	7,5	PF 40 RM
	3,5	10	49,2	91	148	–	119	13,5	12	33,7	30,7	19	0,8	7,5	PF 40 TF
	3,5	10	49,2	91	148	–	119	13,5	12	33,7	30,7	19	0,8	7,5	PF 40 TR
	3,5	10	36	91	148	53	119	13,5	12	28,8	30,7	19	0,8	7,5	PFD 40 RM
	3,5	10	49,2	91	148	53	119	13,5	12	33,7	30,7	19	0,8	7,5	PFD 40 TF
	3,5	10	49,2	91	148	53	119	13,5	12	33,7	30,7	19	0,8	7,5	PFD 40 TR
	3,5	10	36	91	148	104	119	13,5	12	28,8	30,7	19	0,8	7,5	PFT 40 RM
	3,5	10	49,2	91	148	104	119	13,5	12	33,7	30,7	19	0,8	7,5	PFT 40 TF
	3,5	10	49,2	91	148	104	119	13,5	12	33,7	30,7	19	0,8	7,5	PFT 40 TR
45	3,5	10,5	37	97	149	–	120,6	13,5	12	29,3	33,2	21,6	0,915	8,3	PF 45 RM
	3,5	10,5	49,2	97	149	–	120,6	13,5	12	33,7	33,2	21,6	0,915	8,3	PF 45 TF
	3,5	10,5	49,2	97	149	–	120,6	13,5	12	33,7	33,2	21,6	0,915	8,3	PF 45 TR
50	4	11	38,9	102	155	–	127	13,5	12	31,6	35,1	23,2	0,98	9	PF 50 RM
	4	11	51,6	102	155	–	127	13,5	12	36,6	35,1	23,2	0,98	9	PF 50 TF
	4	11	51,6	102	155	–	127	13,5	12	36,6	35,1	23,2	0,98	9	PF 50 TR

[1)] Housings PF 80, PF 85 and PF 90 have four attachment bolt holes.



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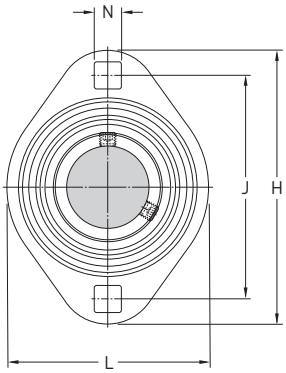
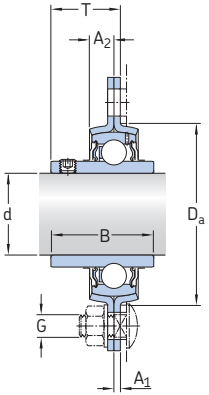


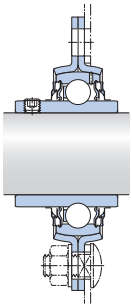
PFT

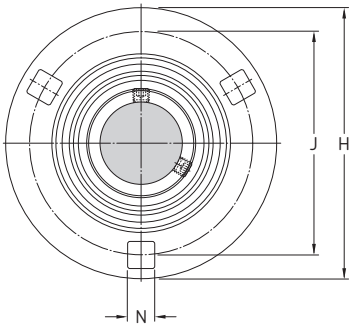
Designation Bearing unit No order designation	**Order designations** Housing	Bearing	**Mass** Bearing unit
–	–		kg
PF 30 RM	**PF 62**	**YAT 206**	0,53
PF 30 TF	**PF 62**	**YAR 206-2F**	0,58
PF 30 TR	**PF 62**	**YAR 206-2RF**	0,58
PFD 30 RM	**PFD 62**	**YAT 206**	0,42
PFD 30 TF	**PFD 62**	**YAR 206-2F**	0,47
PFD 30 TR	**PFD 62**	**YAR 206-2RF**	0,47
PFT 30 RM	**PFT 62**	**YAT 206**	0,41
PFT 30 TF	**PFT 62**	**YAR 206-2F**	0,46
PFT 30 TR	**PFT 62**	**YAR 206-2RF**	0,46
PF 35 RM	**PF 72**	**YAT 207**	0,67
PF 35 TF	**PF 72**	**YAR 207-2F**	0,77
PF 35 TR	**PF 72**	**YAR 207-2RF**	0,77
PFD 35 RM	**PFD 72**	**YAT 207**	0,54
PFD 35 TF	**PFD 72**	**YAR 207-2F**	0,64
PFD 35 TR	**PFD 72**	**YAR 207-2RF**	0,64
PFT 35 RM	**PFT 72**	**YAT 207**	0,55
PFT 35 TF	**PFT 72**	**YAR 207-2F**	0,65
PFT 35 TR	**PFT 72**	**YAR 207-2RF**	0,65
PF 40 RM	**PF 80**	**YAT 208**	1,20
PF 40 TF	**PF 80**	**YAR 208-2F**	1,30
PF 40 TR	**PF 80**	**YAR 208-2RF**	1,30
PFD 40 RM	**PFD 80**	**YAT 208**	0,90
PFD 40 TF	**PFD 80**	**YAR 208-2F**	1,00
PFD 40 TR	**PFD 80**	**YAR 208-2RF**	1,00
PFT 40 RM	**PFT 80**	**YAT 208**	0,78
PFT 40 TF	**PFT 80**	**YAR 208-2F**	0,90
PFT 40 TR	**PFT 80**	**YAR 208-2RF**	0,90
PF 45 RM	**PF 85**	**YAT 209**	1,25
PF 45 TF	**PF 85**	**YAR 209-2F**	1,35
PF 45 TR	**PF 85**	**YAR 209-2RF**	1,35
PF 50 RM	**PF 90**	**YAT 210**	1,40
PF 50 TF	**PF 90**	**YAR 210-2F**	1,55
PF 50 TR	**PF 90**	**YAR 210-2RF**	1,55

Flanged Y-bearing units with a pressed steel housing and grub screws, inch shafts
d **5/8 – 1 1/4** in



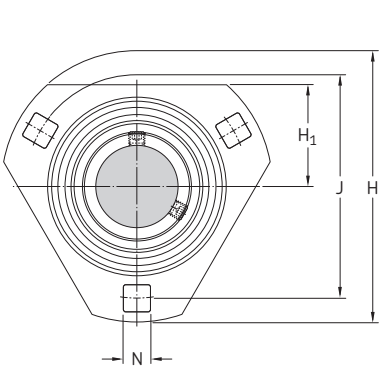
YAR-2F


YAR-2RF

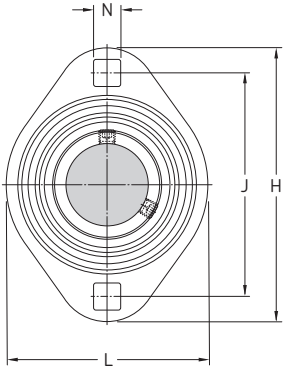


PF

Dimensions											Designation Bearing unit No order
d	A_1	A_2	B	D_a	H	H_1/L	J	N	G	T	designation
in/*mm*											–
5/8	0.08	0.28	1.08	1.93	3.19	–	2.48	0.28	1/4	0.70	PF 5/8 TF
15,875	*2*	*7*	*27,4*	*49*	*81*	–	*63*	*7,1*	*6*	*17,9*	
3/4	0.08	0.32	1.22	2.17	3.58	–	2.82	0.34	5/16	0.80	PF 3/4 TF
19,05	*2*	*8*	*31*	*55*	*91*	–	*71,5*	*8,7*	*8*	*20,3*	
	0.08	0.32	1.22	2.17	3.58	–	2.82	0.34	5/16	0.80	PF 3/4 TR
	2	*8*	*31*	*55*	*91*	–	*71,5*	*8,7*	*8*	*20,3*	
	0.08	0.32	1.22	2.17	3.58	1.26	2.82	0.34	5/16	0.80	PFD 3/4 TF
	2	*8*	*31*	*55*	*91*	*32*	*71,5*	*8,7*	*8*	*20,3*	
	0.08	0.32	1.22	2.17	3.58	1.26	2.82	0.34	5/16	0.80	PFD 3/4 TR
	2	*8*	*31*	*55*	*91*	*32*	*71,5*	*8,7*	*8*	*20,3*	
	0.08	0.32	1.22	2.17	3.58	2.64	2.82	0.34	5/16	0.80	PFT 3/4 TF
	2	*8*	*31*	*55*	*91*	*67*	*71,5*	*8,7*	*8*	*20,3*	
	0.08	0.32	1.22	2.17	3.58	2.64	2.82	0.34	v	0.80	PFT 3/4 TR
	2	*8*	*31*	*55*	*91*	*67*	*71,5*	*8,7*	*8*	*20,3*	
1	0.08	0.35	1.34	2.36	3.74	–	2.99	0.34	5/16	0.86	PF 1. TF
25,4	*2*	*9*	*34,1*	*60*	*95*	–	*76*	*8,7*	*8*	*21,8*	
	0.08	0.35	1.34	2.36	3.74	–	2.99	0.34	5/16	0.86	PF 1. TR
	2	*9*	*34,1*	*60*	*95*	–	*76*	*8,7*	*8*	*21,8*	
	0.08	0.35	1.34	2.36	3.74	1.34	2.99	0.34	5/16	0.86	PFD 1. TF
	2	*9*	*34,1*	*60*	*95*	*34*	*76*	*8,7*	*8*	*21,8*	
	0.08	0.35	1.34	2.36	3.74	1.34	2.99	0.34	5/16	0.86	PFD 1. TR
	2	*9*	*34,1*	*60*	*95*	*34*	*76*	*8,7*	*8*	*21,8*	
	0.08	0.35	1.34	2.36	3.74	2.80	2.99	0.34	5/16	0.86	PFT 1. TF
	2	*9*	*34,1*	*60*	*95*	*71*	*76*	*8,7*	*8*	*21,8*	
	0.08	0.35	1.34	2.36	3.74	2.80	2.99	0.34	5/16	0.86	PFT 1. TR
	2	*9*	*34,1*	*60*	*95*	*71*	*76*	*8,7*	*8*	*21,8*	
1 1/4	0.10	0.39	1.69	3.19	4.80	–	3.94	0.43	3/8	1.10	PF 1.1/4 TF
31,75	*2,5*	*10*	*42,9*	*81*	*122*	–	*100*	*11*	*10*	*27,9*	
	0.10	0.39	1.69	3.19	4.80	–	3.94	0.43	3/8	1.10	PF 1.1/4 TR
	2,5	*10*	*42,9*	*81*	*122*	–	*100*	*11*	*10*	*27,9*	
	0.10	0.39	1.69	3.19	4.80	1.77	3.94	0.43	3/8	1.10	PFD 1.1/4 TF
	2,5	*10*	*42,9*	*81*	*122*	*45*	*100*	*11*	*10*	*27,9*	
	0.10	0.39	1.69	3.19	4.80	1.77	3.94	0.43	3/8	1.10	PFD 1.1/4 TR
	2,5	*10*	*42,9*	*81*	*122*	*45*	*100*	*11*	*10*	*27,9*	
	0.10	0.39	1.69	3.19	4.80	3.7	3.94	0.43	3/8	1.10	PFT 1.1/4 TF
	2,5	*10*	*42,9*	*81*	*122*	*94*	*100*	*11*	*10*	*27,9*	
	0.10	0.39	1.69	3.19	4.80	3.7	3.94	0.43	3/8	1.10	PFT 1.1/4 TR
	2,5	*10*	*42,9*	*81*	*122*	*94*	*100*	*11*	*10*	*27,9*	



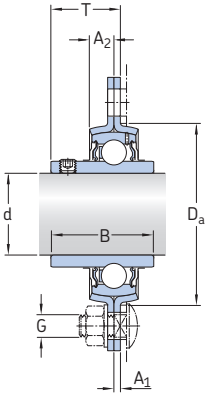
PFD



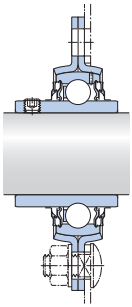
PFT

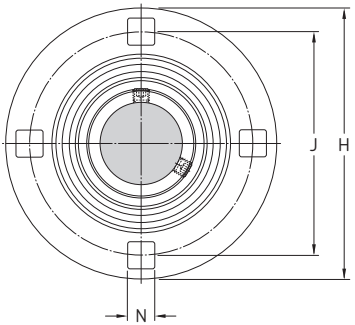
Designation Bearing unit No order designation	**Order designations** Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Permissible housing load radial**	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	lbf/*kN*	lb/*kg*
PF 5/8 TF	**PF 40**	**YAR 203-010-2F**	2 150 *9,56*	1 070 *4,75*	50 *0,2*	560 *2,5*	0.49 *0,22*
PF 3/4 TF	**PF 47**	**YAR 204-012-2F**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.66 *0,30*
PF 3/4 TR	**PF 47**	**YAR 204-012-2RF**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.66 *0,30*
PFD 3/4 TF	**PFD 47**	**YAR 204-012-2F**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.53 *0,24*
PFD 3/4 TR	**PFD 47**	**YAR 204-012-2RF**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.53 *0,24*
PFT 3/4 TF	**PFT 47**	**YAR 204-012-2F**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.53 *0,24*
PFT 3/4 TR	**PFT 47**	**YAR 204-012-2RF**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.53 *0,24*
PF 1. TF	**PF 52**	**YAR 205-100-2F**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.77 *0,35*
PF 1. TR	**PF 52**	**YAR 205-100-2RF**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.77 *0,35*
PFD 1. TF	**PFD 52**	**YAR 205-100-2F**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.64 *0,29*
PFD 1. TR	**PFD 52**	**YAR 205-100-2RF**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.64 *0,29*
PFT 1. TF	**PFT 52**	**YAR 205-100-2F**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.62 *0,28*
PFT 1. TR	**PFT 52**	**YAR 205-100-2RF**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.62 *0,28*
PF 1.1/4 TF	**PF 72**	**YAR 207-104-2F**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	1 460 *6,5*	1.85 *0,83*
PF 1.1/4 TR	**PF 72**	**YAR 207-104-2RF**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	1 460 *6,5*	1.85 *0,83*
PFD 1.1/4 TF	**PFD 72**	**YAR 207-104-2F**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	1 460 *6,5*	1.50 *0,69*
PFD 1.1/4 TR	**PFD 72**	**YAR 207-104-2RF**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	1 460 *6,5*	1.50 *0,69*
PFT 1.1/4 TF	**PFT 72**	**YAR 207-104-2F**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	1 460 *6,5*	1.50 *0,69*
PFT 1.1/4 TR	**PFT 72**	**YAR 207-104-2RF**	5 740 *25,5*	3 440 *15,3*	150 *0,655*	1 460 *6,5*	1.50 *0,69*

Flanged Y-bearing units with a pressed steel housing and grub screws, inch shafts
d **1 1/2 – 1 3/4** in



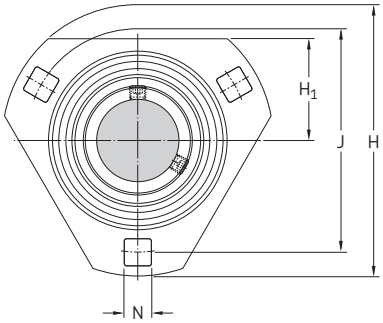
YAR-2F


YAR-2RF



PF

Dimensions											Designation Bearing unit No order designation
d	A_1	A_2	B	D_a	H	H_1/L	J	N	G	T	
in/*mm*											–
1 1/2	0.14	0.39	1.94	3.58	5.83	–	4.69	0.53	1/2	1.33	PF 1.1/2 TF
38,1	*3,5*	*10*	*49,2*	*91*	*148*	–	*119*	*13,5*	*12*	*33,7*	
	0.14	0.39	1.94	3.58	5.83	–	4.69	0.53	1/2	1.33	PF 1.1/2 TR
	3,5	*10*	*49,2*	*91*	*148*	–	*119*	*13,5*	*12*	*33,7*	
	0.14	0.39	1.94	3.58	5.83	2.09	4.69	0.53	1/2	1.33	PFD 1.1/2 TF
	3,5	*10*	*49,2*	*91*	*148*	*53*	*119*	*13,5*	*12*	*33,7*	
	0.14	0.39	1.94	3.58	5.83	2.09	4.69	0.53	1/2	1.33	PFD 1.1/2 TR
	3,5	*10*	*49,2*	*91*	*148*	*53*	*119*	*13,5*	*12*	*33,7*	
	0.14	0.39	1.94	3.58	5.83	4.09	4.69	0.53	1/2	1.33	PFT 1.1/2 TF
	3,5	*10*	*49,2*	*91*	*148*	*104*	*119*	*13,5*	*12*	*33,7*	
	0.14	0.39	1.94	3.58	5.83	4.09	4.69	0.53	1/2	1.33	PFT 1.1/2 TR
	3,5	*10*	*49,2*	*91*	*148*	*104*	*119*	*13,5*	*12*	*33,7*	
1 3/4	0.14	0.41	1.94	3.82	5.87	–	4.75	0.53	1/2	1.33	PF 1.3/4 TF
44,45	*3,5*	*10,5*	*49,2*	*97*	*149*	–	*120,6*	*13,5*	*12*	*33,7*	
	0.14	0.41	1.94	3.82	5.87	–	4.75	0.53	1/2	1.33	PF 1.3/4 TR
	3,5	*10,5*	*49,2*	*97*	*149*	–	*120,6*	*13,5*	*12*	*33,7*	



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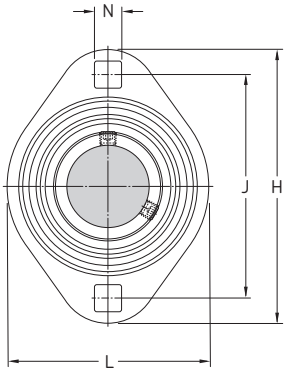
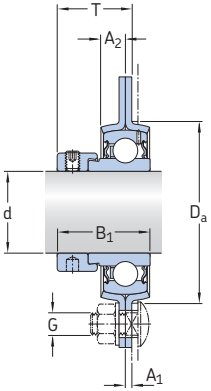


PFT

Designation Bearing unit No order designation	**Order designations** Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Permissible housing load radial**	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	lbf/*kN*	lb/*kg*
PF 1.1/2 TF	**PF 80**	**YAR 208-108-2F**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	1.80 *0,81*
PF 1.1/2 TR	**PF 80**	**YAR 208-108-2RF**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	1.80 *0,81*
PFD 1.1/2 TF	**PFD 80**	**YAR 208-108-2F**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	2.35 *1,05*
PFD 1.1/2 TR	**PFD 80**	**YAR 208-108-2RF**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	2.35 *1.05*
PFT 1.1/2 TF	**PFT 80**	**YAR 208-108-2F**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	2.10 *0,95*
PFT 1.1/2 TR	**PFT 80**	**YAR 208-108-2RF**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	2.10 *0,95*
PF 1.3/4 TF	**PF 85**	**YAR 209-112-2F**	7 470 *33,2*	4 860 *21,6*	210 *0,915*	1 870 *8,3*	2.75 *1,25*
PF 1.3/4 TR	**PF 85**	**YAR 209-112-2RF**	7 470 *33,2*	4 860 *21,6*	210 *0,915*	1 870 *8,3*	2.75 *1,25*

Flanged Y-bearing units with a pressed steel housing and an eccentric locking collar, metric shafts

d **15 – 35** mm



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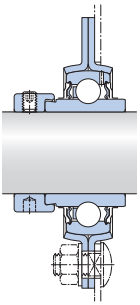
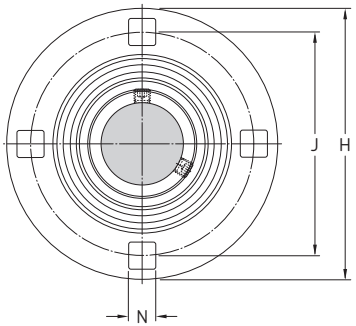
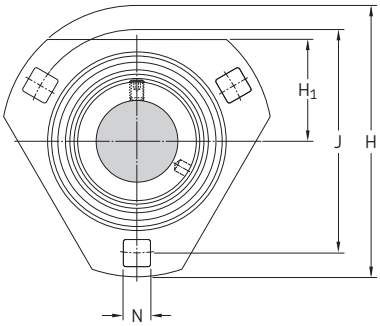


YEL .. -2F



PF

Dimensions											Basic load ratings		Fatigue load limit	Permissible housing load	Designation Bearing unit No order
											dynamic	static			
d	A_1	A_2	B_1	D_a	H	H_1/L	J	N	G	T	C	C_0	P_u	radial	designation
mm											kN		kN	kN	–
15	2	7	28,6	49	81	–	63	7,1	6	24,1	9,56	4,75	0,2	2,5	PF 15 FM
	2	7	28,6	49	81	29	63	7,1	6	24,1	9,56	4,75	0,2	2,5	PFD 15 FM
	2	7	28,6	49	81	59	63	7,1	6	24,1	9,56	4,75	0,2	2,5	PFT 15 FM
17	2	7	28,6	49	81	–	63	7,1	6	24,1	9,56	4,75	0,2	2,5	PF 17 FM
	2	7	28,6	49	81	29	63	7,1	6	24,1	9,56	4,75	0,2	2,5	PFD 17 FM
	2	7	28,6	49	81	59	63	7,1	6	24,1	9,56	4,75	0,2	2,5	PFT 17 FM
20	2	8	31	55	91	–	71,5	8,7	8	25,5	12,7	6,55	0,28	3,3	PF 20 FM
	2	8	43,7	55	91	–	71,5	8,7	8	28,6	12,7	6,55	0,28	3,3	PF 20 WF
	2	8	31	55	91	32	71,5	8,7	8	25,5	12,7	6,55	0,28	3,3	PFD 20 FM
	2	8	43,7	55	91	32	71,5	8,7	8	28,6	12,7	6,55	0,28	3,3	PFD 20 WF
	2	8	31	55	91	67	71,5	8,7	8	25,5	12,7	6,55	0,28	3,3	PFT 20 FM
	2	8	43,4	55	91	67	71,5	8,7	8	28,6	12,7	6,55	0,28	3,3	PFT 20 WF
25	2	9	31	60	95	–	76	8,7	8	25,5	14	7,8	0,335	3,6	PF 25 FM
	2	9	44,4	60	95	–	76	8,7	8	28,9	14	7,8	0,335	3,6	PF 25 WF
	2	9	31	60	95	34	76	8,7	8	25,5	14	7,8	0,335	3,6	PFD 25 FM
	2	9	44,4	60	95	34	76	8,7	8	28,9	14	7,8	0,335	3,6	PFD 25 WF
	2	9	31	60	95	71	76	8,7	8	25,5	14	7,8	0,335	3,6	PFT 25 FM
	2	9	44,4	60	95	71	76	8,7	8	28,9	14	7,8	0,335	3,6	PFT 25 WF
30	2,5	9,5	35,7	71	112	–	90,5	10,5	10	29,2	19,5	11,2	0,475	5	PF 30 FM
	2,5	9,5	48,4	71	112	–	90,5	10,5	10	32,6	19,5	11,2	0,475	5	PF 30 WF
	2,5	9,5	35,7	71	112	38	90,5	10,5	10	29,2	19,5	11,2	0,475	5	PFD 30 FM
	2,5	9,5	48,4	71	112	38	90,5	10,5	10	32,6	19,5	11,2	0,475	5	PFD 30 WF
	2,5	9,5	35,7	71	112	84	90,5	10,5	10	29,2	19,5	11,2	0,475	5	PFT 30 FM
	2,5	9,5	48,4	71	112	84	90,5	10,5	10	32,6	19,5	11,2	0,475	5	PFT 30 WF
35	2,5	10	38,9	81	122	–	100	11	10	31,9	25,5	15,3	0,655	6,5	PF 35 FM
	2,5	10	51,1	81	122	–	100	11	10	34,8	25,5	15,3	0,655	6,5	PF 35 WF
	2,5	10	38,9	81	122	45	100	11	10	31,9	25,5	15,3	0,655	6,5	PFD 35 FM
	2,5	10	51,1	81	122	45	100	11	10	34,8	25,5	15,3	0,655	6,5	PFD 35 WF
	2,5	10	38,9	81	122	94	100	11	10	31,9	25,5	15,3	0,655	6,5	PFT 35 FM
	2,5	10	51,1	81	122	94	100	11	10	34,8	25,5	15,3	0,655	6,5	PFT 35 WF



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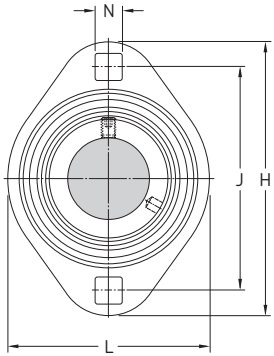
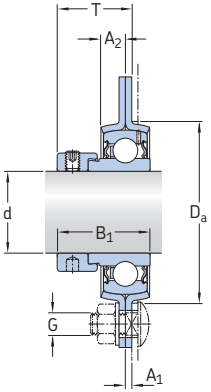


PFT

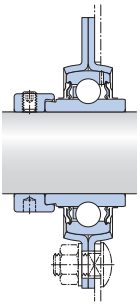
Designation Bearing unit No order designation	**Order designations** Housing	Bearing	**Mass** Bearing unit
–	–		kg
PF 15 FM	**PF 40**	**YET 203/15**	0,24
PFD 15 FM	**PFD 40**	**YET 203/15**	0,21
PFT 15 FM	**PFT 40**	**YET 203/15**	0,21
PF 17 FM	**PF 40**	**YET 203**	0,22
PFD 17 FM	**PFD 40**	**YET 203**	0,20
PFT 17 FM	**PFT 40**	**YET 203**	0,19
PF 20 FM	**PF 47**	**YET 204**	0,30
PF 20 WF	**PF 47**	**YEL 204-2F**	0,33
PFD 20 FM	**PFD 47**	**YET 204**	0,26
PFD 20 WF	**PFD 47**	**YEL 204-2F**	0,29
PFT 20 FM	**PFT 47**	**YET 204**	0,25
PFT 20 WF	**PFT 47**	**YEL 204-2F**	0,28
PF 25 FM	**PF 52**	**YET 205**	0,35
PF 25 WF	**PF 52**	**YEL 205-2F**	0,40
PFD 25 FM	**PFD 52**	**YET 205**	0,30
PFD 25 WF	**PFD 52**	**YEL 205-2F**	0,35
PFT 25 FM	**PFT 52**	**YET 205**	0,29
PFT 25 WF	**PFT 52**	**YEL 205-2F**	0,34
PF 30 FM	**PF 62**	**YET 206**	0,56
PF 30 WF	**PF 62**	**YEL 206-2F**	0,62
PFD 30 FM	**PFD 62**	**YET 206**	0,48
PFD 30 WF	**PFD 62**	**YEL 206-2F**	0,54
PFT 30 FM	**PFT 62**	**YET 206**	0,46
PFT 30 WF	**PFT 62**	**YEL 206-2F**	0,52
PF 35 FM	**PF 72**	**YET 207**	0,70
PF 35 WF	**PF 72**	**YEL 207-2F**	0,78
PFD 35 FM	**PFD 72**	**YET 207**	0,66
PFD 35 WF	**PFD 72**	**YEL 207-2F**	0,74
PFT 35 FM	**PFT 72**	**YET 207**	0,72
PFT 35 WF	**PFT 72**	**YEL 207-2F**	0,80

Flanged Y-bearing units with a pressed steel housing and an eccentric locking collar, metric shafts

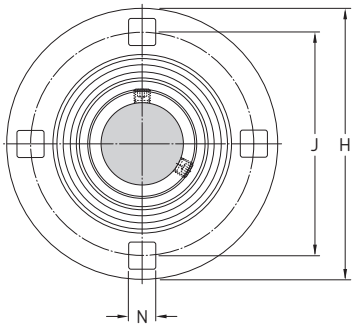
d **40 – 50** mm



YET

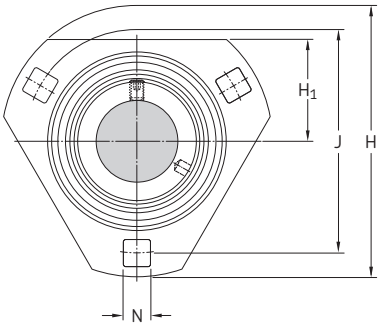


YEL .. -2F



PF

Dimensions											Basic load ratings		Fatigue load	Permissible housing load	Designation
											dynamic	static	limit	radial	Bearing unit No order
d	A_1	A_2	B_1	D_a	H	H_1/L	J	N	G	T	C	C_0	P_u		designation
mm											kN		kN	kN	–
40	3,5	10	43,7	91	148	–	119	13,5	12	36,2	30,7	19	0,8	7,5	PF 40 FM
	3,5	10	56,3	91	148	–	119	13,5	12	38,4	30,7	19	0,8	7,5	PF 40 WF
	3,5	10	43,7	91	148	53	119	13,5	12	36,2	30,7	19	0,8	7,5	PFD 40 FM
	3,5	10	56,3	91	148	53	119	13,5	12	38,4	30,7	19	0,8	7,5	PFD 40 WF
	3,5	10	43,7	91	148	104	119	13,5	12	36,2	30,7	19	0,8	7,5	PFT 40 FM
	3,5	10	56,3	91	148	104	119	13,5	12	38,4	30,7	19	0,8	7,5	PFT 40 WF
45	3,5	10,5	43,7	97	149	–	120,6	13,5	12	36,2	33,2	21,6	0,915	8,3	PF 45 FM
	3,5	10,5	56,3	97	149	–	120,6	13,5	12	38,4	33,2	21,6	0,915	8,3	PF 45 WF
50	4	11	43,7	102	155	–	127	13,5	12	36,7	35,1	23,2	0,98	9	PF 50 FM
	4	11	62,7	102	155	–	127	13,5	12	42,1	35,1	23,2	0,98	9	PF 50 WF



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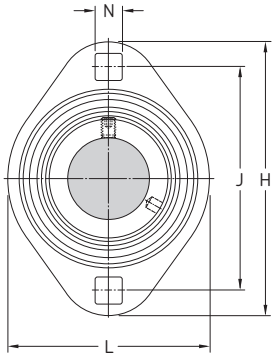
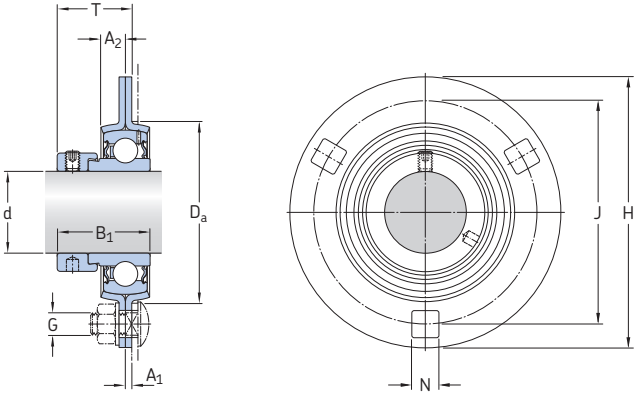


PFT

Designation Bearing unit No order designation	**Order designations** Housing	Bearing	**Mass** Bearing unit
–	–		kg
PF 40 FM	**PF 80**	**YET 208**	1,20
PF 40 WF	**PF 80**	**YEL 208-2F**	1,30
PFD 40 FM	**PFD 80**	**YET 208**	1,05
PFD 40 WF	**PFD 80**	**YEL 208-2F**	1,15
PFT 40 FM	**PFT 80**	**YET 208**	0,94
PFT 40 WF	**PFT 80**	**YEL 208-2F**	1,00
PF 45 FM	**PF 85**	**YET 209**	1,30
PF 45 WF	**PF 85**	**YEL 209-2F**	1,40
PF 50 FM	**PF 90**	**YET 210**	1,50
PF 50 WF	**PF 90**	**YEL 210-2F**	1,65

Flanged Y-bearing units with a pressed steel housing and an eccentric locking collar, inch shafts

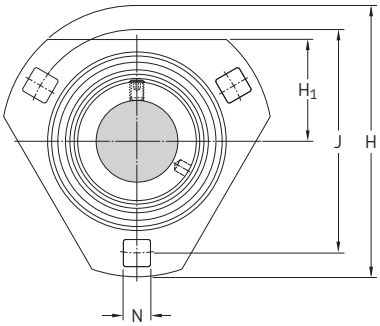
d **3/4 – 1 1/2** in



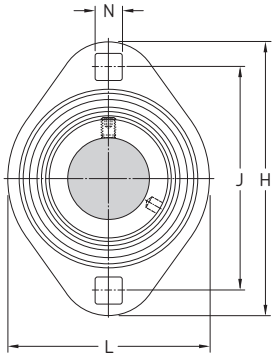
PF[1)]

Dimensions											Designation Bearing unit No order designation
d	A_1	A_2	B_1	D_a	H	H_1/L	J	N	G	T	–
in/*mm*											–
3/4	0.08	0.31	1.22	2.17	3.58	–	2.81	0.34	5/16	1.00	PF 3/4 FM
19,05	*2*	*8*	*31*	*55*	*91*	–	*71,5*	*8,7*	*8*	*25,5*	
	0.08	0.31	1.22	2.17	3.58	1.26	2.81	0.34	5/16	1.00	PFD 3/4 FM
	2	*8*	*31*	*55*	*91*	*32*	*71,5*	*8,7*	*8*	*25,5*	
	0.08	0.31	1.22	2.17	3.58	2.64	2.81	0.34	5/16	1.00	PFT 3/4 FM
	2	*8*	*31*	*55*	*91*	*67*	*71,5*	*8,7*	*8*	*25,5*	
1	0.08	0.35	1.22	2.36	3.74	–	2.99	0.34	5/16	1.00	PF 1. FM
25,4	*2*	*9*	*31*	*60*	*95*	–	*76*	*8,7*	*8*	*25,5*	
	0.08	0.35	1.22	2.36	3.74	1.34	2.99	0.34	5/16	1.00	PFD 1. FM
	2	*9*	*31*	*60*	*95*	*34*	*76*	*8,7*	*8*	*25,5*	
	0.08	0.35	1.22	2.36	3.74	2.8	2.99	0.34	5/16	1.00	PFT 1. FM
	2	*9*	*31*	*60*	*95*	*71*	*76*	*8,7*	*8*	*25,5*	
1 1/2	0.14	0.39	1.72	3.58	5.83	–	4.69	0.53	1/2	1.43	PF 1.1/2 FM
38,1	*3,5*	*10*	*43,7*	*91*	*148*	–	*119*	*13,5*	*12*	*36,2*	
	0.14	0.39	1.72	3.58	5.83	2.09	4.69	0.53	1/2	1.43	PFD 1.1/2 FM
	3,5	*10*	*43,7*	*91*	*148*	*53*	*119*	*13,5*	*12*	*36,2*	
	0.14	0.39	1.72	3.58	5.83	4.09	4.69	0.53	1/2	1.43	PFT 1.1/2 FM
	3,5	*10*	*43,7*	*91*	*148*	*104*	*119*	*13,5*	*12*	*36,2*	

[1)] Housing PF 80 has four attachment bolt holes.



PFD



PFT

Designation Bearing unit No order designation	**Order designations** Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load** limit P_u	**Permissible housing load** radial	**Mass** Bearing unit
–	–		lbf/*kN*		lbf/*kN*	lbf/*kN*	lb/*kg*
PF 3/4 FM	**PF 47**	**YET 204-012**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.70 *0,31*
PFD 3/4 FM	**PFD 47**	**YET 204-012**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.60 *0,27*
PFT 3/4 FM	**PFT 47**	**YET 204-012**	2 860 *12,7*	1 470 *6,55*	60 *0,28*	740 *3,3*	0.60 *0,26*
PF 1. FM	**PF 52**	**YET 205-100**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.80 *0,35*
PFD 1. FM	**PFD 52**	**YET 205-100**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.80 *0,35*
PFT 1. FM	**PFT 52**	**YET 205-100**	3 150 *14*	1 760 *7,8*	80 *0,335*	810 *3,6*	0.60 *0,29*
PF 1.1/2 FM	**PF 80**	**YET 208-108**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	2.70 *1,25*
PFD 1.1/2 FM	**PFD 80**	**YET 208-108**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	2.30 *1,05*
PFT 1.1/2 FM	**PFT 80**	**YET 208-108**	6 910 *30,7*	4 280 *19*	180 *0,8*	1 690 *7,5*	2.20 *0,98*


SKF

Y-bearing take-up units

Designs

Y-bearing take-up units consist of a cast housing and an insert bearing (→ **fig. 1**). These units are typically mounted in take-up frames and connected by an adjustment screw. A grease fitting is provided in the housing for relubrication. Standard Y-bearing take-up units can be located on the shaft via the inner ring of the insert bearing with either:

- grub (set) screws
- an eccentric locking collar

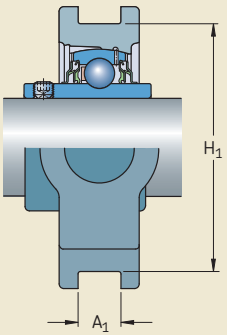
The Y-bearing is sealed with either:

- the standard integral seal
- the standard integral seal and an additional flinger

For additional information about Y-bearings, refer to the section *Y-bearings*, starting on **page 79**.

Fig. 1

Fig. 2



Data – general

Dimensions

The boundary dimensions of SKF Y-bearing take-up housings in the:

- TU series are in accordance with ISO 3228:1993
- TUJ series are in accordance with JIS B 1559-1995

Tolerances

The tolerances (→ **fig. 2**), which are in accordance with ISO 3228:1993, are:

- ± 0,25 mm for the distance between the guide surfaces H_1
- within the tolerance range H13 for the width of the guide surfaces A_1

Information about the tolerances of the inner ring bore diameter can be found in the section *Y-bearings* on **page 89**.

Radial internal clearance

The Y-bearing used in a Y-bearing take-up unit has the same radial internal clearance as a similarly sized individual Y-bearing. The values for radial internal clearance can be found in the section *Y-bearings* on **page 90**.

Materials

The housings for Y-bearing take-up units are manufactured from grey cast iron EN-GJL HB195 in accordance with EN 1561:1997.

Load carrying ability of the housings

Cast housings can withstand the same dynamic and static loads as their insert bearings. Therefore, Y-bearing take-up units may also be used where shock loads or variable axial loads occur, provided the adjustment screw and the way it is secured to the Y-bearing take-up unit is sufficiently strong.

If SKF Y-bearing units are to be used in an application where health, safety, or the environment is at risk, contact the SKF application engineering service during the design phase.

End covers

To protect the shaft ends and avoid any accidents, end covers are available for Y-bearing take-up units in the TU series (→ **fig. 3**).

In the product tables, end covers in the ECY 2 series are shown together with the appropriate bearing unit. The designation of the end cover is listed, together with the distance that the end cover protrudes from the housing.

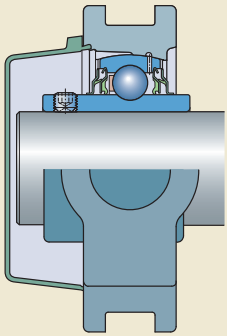
For additional information about end covers, refer to the section *Design of Y-bearing arrangements* on **page 47**.

Grease fills

All standard SKF Y-bearing take-up units are filled with a high-quality, long-lasting grease containing a lithium-calcium thickener that has a consistency of 2 on the NLGI scale.

For additional information about lubricants and lubrication, refer to the section *Lubrication and maintenance*, starting on **page 48**.

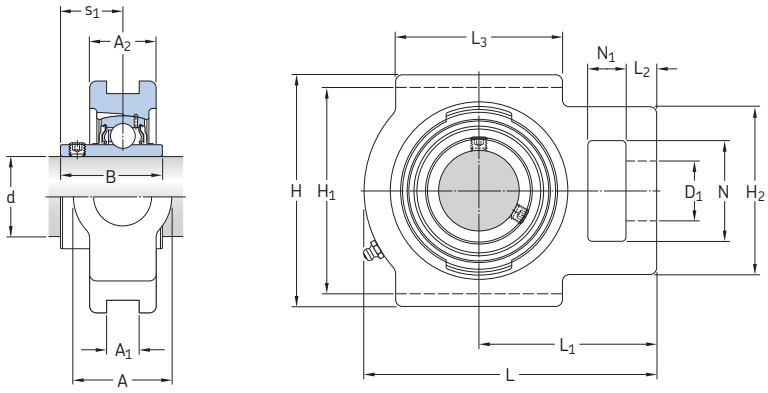
Fig. 3



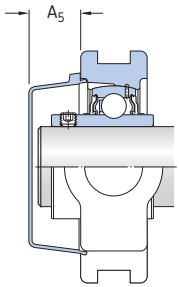
Mounting

The mounting procedures for a Y-bearing take-up unit depend on the method used to attach the unit to the shaft. The procedures are briefly described in the section *Mounting instructions*, starting on **page 52**.

Y-bearing take-up units with a cast housing and grub screws, metric shafts
d **20 – 60** mm

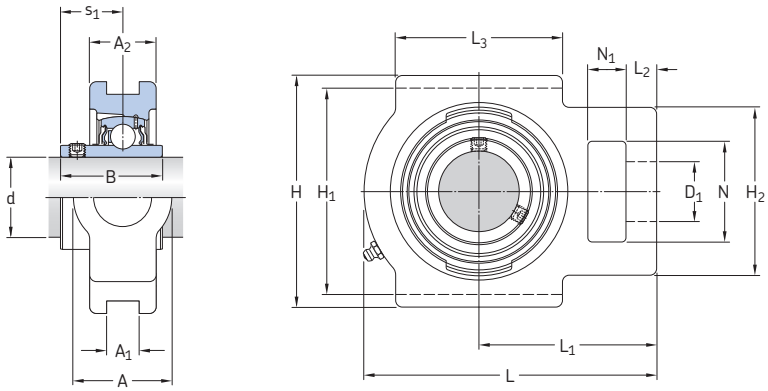


Dimensions																Designation Bearing unit
d	A	A_1	A_2	B	D_1	H	H_1	H_2	L	L_1	L_2	L_3	N	N_1	s_1	
mm																–
20	34	13,5	25	31	19	92	76	54	97	62	10	54	32	16	18,3	**TU 20 TF**
	34	12	25	31	19	92	76	54	97	62	10	54	32	16	18,3	**TUJ 20 TF**
25	34	13,5	25	34,1	19	91	76	53	100	64	10	52	33	16	19,8	**TU 25 TF**
	34	12	25	34,1	19	91	76	53	100	64	10	52	33	16	19,8	**TUJ 25 TF**
30	37	13,5	28	38,1	22	104	89	56	114	70	10	57	37	16	22,2	**TU 30 TF**
	37	12	28	38,1	22	104	89	56	114	70	10	57	37	16	22,2	**TUJ 30 TF**
35	37	13,5	30	42,9	22	103	89	64	129	78	12	64	38	17	25,4	**TU 35 TF**
	37	12	30	42,9	22	103	89	64	129	78	12	64	38	17	25,4	**TUJ 35 TF**
40	49	17,5	33	49,2	29	115	101	83	145	88	15	83	50	19	30,2	**TU 40 TF**
	49	16	33	49,2	29	115	102	83	145	88	15	83	50	19	30,2	**TUJ 40 TF**
45	49	17,5	35	49,2	29	117	101	83	144	87	15	83	49	19	30,2	**TU 45 TF**
	49	16	35	49,2	29	117	102	83	144	87	15	83	49	19	30,2	**TUJ 45 TF**
50	49	17,5	36	51,6	29	117	101	83	149	90	16	86	49	19	32,6	**TU 50 TF**
	49	16	36	51,6	29	117	102	83	149	90	16	86	49	19	32,6	**TUJ 50 TF**
55	64	27	41	55,6	35	146	130	102	171	106	19	95	64	25	33,4	**TU 55 TF**
	64	22	41	55,6	35	146	130	102	171	106	19	95	64	25	33,4	**TUJ 55 TF**
60	60	22	44	65,1	35	146	130	102	186	118	19	100	63,5	32	39,7	**TUJ 60 TF**



Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit	**Appropriate end cover** Designation	Dimension A_5
–			kN		kN	r/min	kg	–	mm
TU 20 TF	TU 504 M	YAR 204-2F	12,7	6,55	0,28	8 500	0,73	ECY 204	18,5
TUJ 20 TF	TUJ 504	YAR 204-2F	12,7	6,55	0,28	8 500	0,76	–	–
TU 25 TF	TU 505 M	YAR 205-2F	14	7,8	0,335	7 000	0,77	ECY 205	18
TUJ 25 TF	TUJ 505	YAR 205-2F	14	7,8	0,335	7 000	0,82	–	–
TU 30 TF	TU 506 M	YAR 206-2F	19,5	11,2	0,475	6 300	1,25	ECY 206	20
TUJ 30 TF	TUJ 506	YAR 206-2F	19,5	11,2	0,475	6 300	1,28	–	–
TU 35 TF	TU 507 M	YAR 207-2F	25,5	15,3	0,655	5 300	1,45	ECY 207	22
TUJ 35 TF	TUJ 507	YAR 207-2F	25,5	15,3	0,655	5 300	1,50	–	–
TU 40 TF	TU 508 M	YAR 208-2F	30,7	19	0,8	4 800	2,30	ECY 208	23,5
TUJ 40 TF	TUJ 508	YAR 208-2F	30,7	19	0,8	4 800	2,35	–	–
TU 45 TF	TU 509 M	YAR 209-2F	33,2	21,6	0,915	4 300	2,30	ECY 209	23
TUJ 45 TF	TUJ 509	YAR 209-2F	33,2	21,6	0,915	4 300	2,35	–	–
TU 50 TF	TU 510 M	YAR 210-2F	35,1	23,2	0,98	4 000	2,40	ECY 210	29,5
TUJ 50 TF	TUJ 510	YAR 210-2F	35,1	23,2	0,98	4 000	2,50	–	–
TU 55 TF	TU 511 M	YAR 211-2F	43,6	29	1,25	3 600	3,85	ECY 211	34
TUJ 55 TF	TUJ 511	YAR 211-2F	43,6	29	1,25	3 600	4,00	–	–
TUJ 60 TF	TUJ 512	YAR 212-2F	52,7	36	1,53	3 400	5,00	–	–

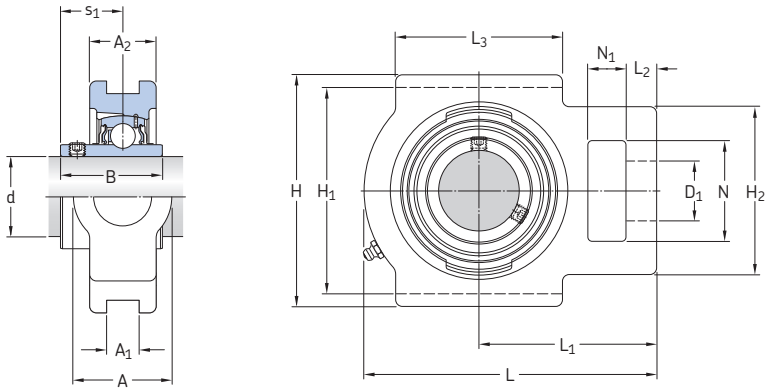
Y-bearing take-up units with a cast housing and grub screws, inch shafts
d **3/4 – 1 7/16** in



Dimensions																Designation Bearing unit
d	A	A_1	A_2	B	D_1	H	H_1	H_2	L	L_1	L_2	L_3	N	N_1	s_1	
in/*mm*																–
3/4	1.34	0.53	0.98	1.22	0.75	3.62	2.99	2.13	3.82	2.44	0.39	2.13	1.26	0.63	0.72	**TU 3/4 TF**
19,05	*34*	*13,5*	*25*	*31*	*19*	*92*	*76*	*54*	*97*	*62*	*10*	*54*	*32*	*16*	*18,3*	
13/16	1.34	0.53	0.98	1.34	0.75	3.58	2.99	2.09	3.94	2.52	0.39	2.05	1.3	0.63	0.78	**TU 13/16 TF**
20,638	*34*	*13,5*	*25*	*34,1*	*19*	*91*	*76*	*53*	*100*	*64*	*10*	*52*	*33*	*16*	*19,8*	
7/8	1.34	0.53	0.98	1.34	0.75	3.58	2.99	2.09	3.94	2.52	0.39	2.05	1.3	0.63	0.78	**TU 7/8 TF**
22,225	*34*	*13,5*	*25*	*34,1*	*19*	*91*	*76*	*53*	*100*	*64*	*10*	*52*	*33*	*16*	*19,8*	
15/16	1.34	0.53	0.98	1.34	0.75	3.58	2.99	2.09	3.94	2.52	0.39	2.05	1.3	0.63	0.78	**TU 15/16 TF**
23,813	*34*	*13,5*	*25*	*34,1*	*19*	*91*	*76*	*53*	*100*	*64*	*10*	*52*	*33*	*16*	*19,8*	
1	1.34	0.53	0.98	1.34	0.75	3.58	2.99	2.09	3.94	2.52	0.39	2.05	1.3	0.63	0.78	**TU 1. TF**
25,4	*34*	*13,5*	*25*	*34,1*	*19*	*91*	*76*	*53*	*100*	*64*	*10*	*52*	*33*	*16*	*19,8*	
1 1/16	1.46	0.53	1.1	1.5	0.87	4.09	3.5	2.2	4.49	2.76	0.39	2.24	1.46	0.63	0.87	**TU 1.1/16 TF**
26,988	*37*	*13,5*	*28*	*38,1*	*22*	*104*	*89*	*56*	*114*	*70*	*10*	*57*	*37*	*16*	*22,2*	
1 1/8	1.46	0.53	1.1	1.5	0.87	4.09	3.5	2.2	4.49	2.76	0.39	2.24	1.46	0.63	0.87	**TU 1.1/8 TF**
28,575	*37*	*13,5*	*28*	*38,1*	*22*	*104*	*89*	*56*	*114*	*70*	*10*	*57*	*37*	*16*	*22,2*	
1 3/16	1.46	0.53	1.1	1.5	0.87	4.09	3.5	2.2	4.49	2.76	0.39	2.24	1.46	0.63	0.87	**TU 1.3/16 TF**
30,163	*37*	*13,5*	*28*	*38,1*	*22*	*104*	*89*	*56*	*114*	*70*	*10*	*57*	*37*	*16*	*22,2*	
1 1/4	1.46	0.53	1.18	1.69	0.87	4.06	3.5	2.52	5.08	3.07	0.47	2.52	1.5	0.67	1	**TU 1.1/4 TF**
31,75	*37*	*13,5*	*30*	*42,9*	*22*	*103*	*89*	*64*	*129*	*78*	*12*	*64*	*38*	*17*	*25,4*	
1 5/16	1.46	0.53	1.18	1.69	0.87	4.06	3.5	2.52	5.08	3.07	0.47	2.52	1.5	0.67	1	**TU 1.5/16 TF**
33,338	*37*	*13,5*	*30*	*42,9*	*22*	*103*	*89*	*64*	*129*	*78*	*12*	*64*	*38*	*17*	*25,4*	
1 3/8	1.46	0.53	1.18	1.69	0.87	4.06	3.5	2.52	5.08	3.07	0.47	2.52	1.5	0.67	1	**TU 1.3/8 TF**
34,925	*37*	*13,5*	*30*	*42,9*	*22*	*103*	*89*	*64*	*129*	*78*	*12*	*64*	*38*	*17*	*25,4*	
1 7/16	1.46	0.53	1.18	1.69	0.87	4.06	3.5	2.52	5.08	3.07	0.47	2.52	1.5	0.67	1	**TU 1.7/16 TF**
36,513	*37*	*13,5*	*30*	*42,9*	*22*	*103*	*89*	*64*	*129*	*78*	*12*	*64*	*38*	*17*	*25,4*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
TU 3/4 TF	TU 504 U	YAR 204-012-2F	2 860 *12,7*	1 470 *6,55*	60 *0,28*	8 500	1.61 *0,73*
TU 13/16 TF	TU 505 U	YAR 205-013-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.79 *0,81*
TU 7/8 TF	TU 505 U	YAR 205-014-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.76 *0,80*
TU 15/16 TF	TU 505 U	YAR 205-015-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.72 *0,78*
TU 1. TF	TU 505 M	YAR 205-100-2F	3 150 *14*	1 760 *7,8*	80 *0,335*	7 000	1.68 *0,76*
TU 1.1/16 TF	TU 506 U	YAR 206-101-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.85 *1,30*
TU 1.1/8 TF	TU 506 U	YAR 206-102-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.80 *1,25*
TU 1.3/16 TF	TU 506 U	YAR 206-103-2F	4 390 *19,5*	2 520 *11,2*	110 *0,475*	6 300	2.75 *1,25*
TU 1.1/4 TF	TU 507 M	YAR 207-104-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.30 *1,50*
TU 1.5/16 TF	TU 507 U	YAR 207-105-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.30 *1,50*
TU 1.3/8 TF	TU 507 U	YAR 207-106-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.20 *1,45*
TU 1.7/16 TF	TU 507 U	YAR 207-107-2F	5 740 *25,5*	3 440 *15,3*	150 *0,655*	5 300	3.15 *1,45*

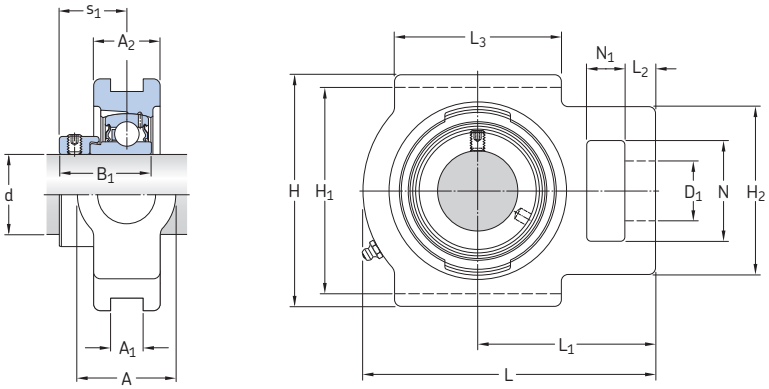
Y-bearing take-up units with a cast housing and grub screws, inch shafts
d **1 1/2 – 2 3/16** in



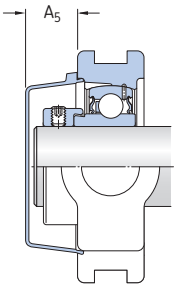
Dimensions																Designation Bearing unit
d	A	A_1	A_2	B	D_1	H	H_1	H_2	L	L_1	L_2	L_3	N	N_1	s_1	
in/*mm*																–
1 1/2	1.93	0.69	1.3	1.94	1.14	4.53	3.98	3.27	5.71	3.46	0.59	3.27	1.97	0.75	1.19	**TU 1.1/2 TF**
38,1	*49*	*17,5*	*33*	*49,2*	*29*	*115*	*101*	*83*	*145*	*88*	*15*	*83*	*50*	*19*	*30,2*	
1 11/16	1.93	0.69	1.38	1.94	1.14	4.61	3.98	3.27	5.67	3.43	0.59	3.27	1.93	0.75	1.19	**TU 1.11/16 TF**
42,863	*49*	*17,5*	*35*	*49,2*	*29*	*117*	*101*	*83*	*144*	*87*	*15*	*83*	*49*	*19*	*30,2*	
1 3/4	1.93	0.69	1.38	1.94	1.14	4.61	3.98	3.27	5.67	3.43	0.59	3.27	1.93	0.75	1.19	**TU 1.3/4 TF**
44,45	*49*	*17,5*	*35*	*49,2*	*29*	*117*	*101*	*83*	*144*	*87*	*15*	*83*	*49*	*19*	*30,2*	
1 15/16	1.93	0.69	1.42	2.03	1.14	4.61	3.98	3.27	5.87	3.54	0.63	3.39	1.93	0.75	1.28	**TU 1.15/16 TF**
49,213	*49*	*17,5*	*36*	*51,6*	*29*	*117*	*101*	*83*	*149*	*90*	*16*	*86*	*49*	*19*	*32,6*	
2	2.52	1.06	1.61	2.19	1.38	5.75	5.12	4.02	6.73	4.17	0.75	3.74	2.52	0.98	1.31	**TU 2. TF**
50,8	*64*	*27*	*41*	*55,6*	*35*	*146*	*130*	*102*	*171*	*106*	*19*	*95*	*64*	*25*	*33,4*	
2 3/16	2.52	1.06	1.61	2.19	1.38	5.75	5.12	4.02	6.73	4.17	0.75	3.74	2.52	0.98	1.31	**TU 2.3/16 TF**
55,563	*64*	*27*	*41*	*55,6*	*35*	*146*	*130*	*102*	*171*	*106*	*19*	*95*	*64*	*25*	*33,4*	

Designations Bearing unit	Separate components Housing	 Bearing	**Basic load ratings** dynamic C	 static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit
–			lbf/*kN*		lbf/*kN*	r/min	lb/*kg*
TU 1.1/2 TF	TU 508 M	YAR 208-108-2F	6 910 *30,7*	4 280 *19*	180 *0,8*	5 300	4.95 *2,25*
TU 1.11/16 TF	TU 509 U	YAR 209-111-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.20 *2,35*
TU 1.3/4 TF	TU 509 U	YAR 209-112-2F	7 470 *33,2*	4 860 *21,6*	210 *0,915*	4 300	5.50 *2,50*
TU 1.15/16 TF	TU 510 U	YAR 210-115-2F	7 900 *35,1*	5 220 *23,2*	220 *0,98*	4 000	5.30 *2,40*
TU 2. TF	TU 511 M	YAR 211-200-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	4 000	8.80 *4,00*
TU 2.3/16 TF	TU 511 U	YAR 211-203-2F	9 810 *43,6*	6 530 *29*	280 *1,25*	3 600	8.40 *3,80*

Y-bearing take-up units with a cast housing and an eccentric locking collar, metric shafts
d **20 – 55** mm



Dimensions																Designation Bearing unit
d	A	A_1	A_2	B_1	D_1	H	H_1	H_2	L	L_1	L_2	L_3	N	N_1	s_1	
mm																–
20	34	13,5	25	31	19	92	76	54	97	62	10	54	32	16	23,5	**TU 20 FM**
25	34	13,5	25	31	19	91	76	53	100	64	10	52	33	16	23,5	**TU 25 FM**
30	37	13,5	28	35,7	22	104	89	56	114	70	10	57	37	16	26,7	**TU 30 FM**
35	37	13,5	30	38,9	22	103	89	64	129	78	12	64	38	17	29,4	**TU 35 FM**
40	49	17,5	33	43,7	29	115	101	83	145	88	15	83	50	19	32,7	**TU 40 FM**
45	49	17,5	35	43,7	29	117	101	83	144	87	15	83	49	19	32,7	**TU 45 FM**
50	49	17,5	36	43,7	29	117	101	83	149	90	16	86	49	19	32,7	**TU 50 FM**
55	64	27	41	48,4	35	146	130	102	171	106	19	95	64	25	36,4	**TU 55 FM**



Designations Bearing unit	Separate components Housing	Bearing	**Basic load ratings** dynamic C	static C_0	**Fatigue load limit** P_u	**Limiting speed** with shaft tolerance h6	**Mass** Bearing unit	**Appropriate end cover** Designation	Dimension A_5
–			kN		kN	r/min	kg	–	mm
TU 20 FM	TU 504 M	YET 204	12,7	6,55	0,28	8 500	0,73	ECY 204	18,5
TU 25 FM	TU 505 M	YET 205	14	7,8	0,335	7 000	0,77	ECY 205	18
TU 30 FM	TU 506 M	YET 206	19,5	11,2	0,475	6 300	1,25	ECY 206	20
TU 35 FM	TU 507 M	YET 207	25,5	15,3	0,655	5 300	1,45	ECY 207	22
TU 40 FM	TU 508 M	YET 208	30,7	19	0,8	4 800	2,30	ECY 208	23,5
TU 45 FM	TU 509 M	YET 209	33,2	21,6	0,915	4 300	2,30	ECY 209	23
TU 50 FM	TU 510 M	YET 210	35,1	23,2	0,98	4 000	2,40	ECY 210	29,5
TU 55 FM	TU 511 M	YET 211	43,6	29	1,25	3 600	3,85	ECY 211	34


SKF
SKF

SKF ConCentra ball bearings and units

SKF ConCentra ball bearings and units (→ **fig. 1**) are part of SKF's extensive line of ready-to-install mounted products. SKF ConCentra ball bearings and units, with true concentric location on the shaft, are particularly well suited for applications where there are relatively high speeds and moderate loads and where vibration, low noise, and minimal maintenance are key operational parameters. SKF ConCentra ball bearings are available as single bearings or assembled with plummer block or flanged housings.

What sets the SKF ConCentra ball bearing unit apart from any other Y-bearing unit is its unique 360° locking mechanism. The locking mechanism is based on two mating surfaces, each with precision engineered inclined serrations. One set of serrations is machined into the bearing bore; the other set is machined into the outside diameter of the shaft sleeve. The shaft sleeve is also equipped with a mounting pressure ring (→ **fig. 2**).

The 360° grip on the shaft virtually eliminates the possibility of shaft damage and fretting corrosion.

By tightening the grub (set) screws in the mounting collar using the appropriate hexagonal key, the bearing inner ring is forced up the inclined planes of the stepped sleeve, thus providing a true concentric tight fit on the shaft (→ **fig. 3**).

In order to assist the mounting of SKF ConCentra ball bearing units, mounting kits are available from SKF (designation 626830) which include mounting instructions, hexagonal keys and torque indicators. Typical applications of SKF ConCentra ball bearings and units are industrial fans, conveyor systems, textile machines and agricultural machinery.

Fig. 1

Fig. 2

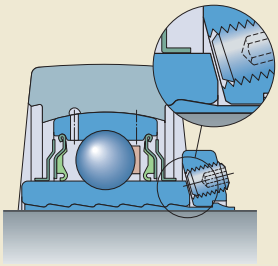
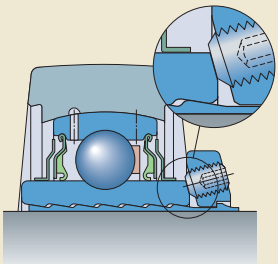


Fig. 3



Design

SKF ConCentra ball bearing units are ready-to-mount and ready-to-operate. They are filled with a high-quality, long-lasting grease that provides maintenance-free operation in most cases. For operating conditions that make relubrication necessary, the units are provided with a grease fitting.

SKF ConCentra ball bearings and units are based on:

- SKF Y-bearings in the YSP 2 SB series
- the patented SKF ConCentra stepped sleeve
- cast iron housings in the SY 5(00) M, FY 5(00) M and FYTB 5(00) M series, SY 5(00) M, FY 5(00) M, FYTB 5(00) M series for metric shafts
- cast iron housings in the SY 5(00) U/AH, FY 5(00) U/AH, FYTB 5(00) U/AH series for inch shafts

Detailed information about these bearing units can be found in the publication *SKF ConCentra ball bearing units – true concentric locking, for fast and reliable mounting* and online at skf.com/bearings.