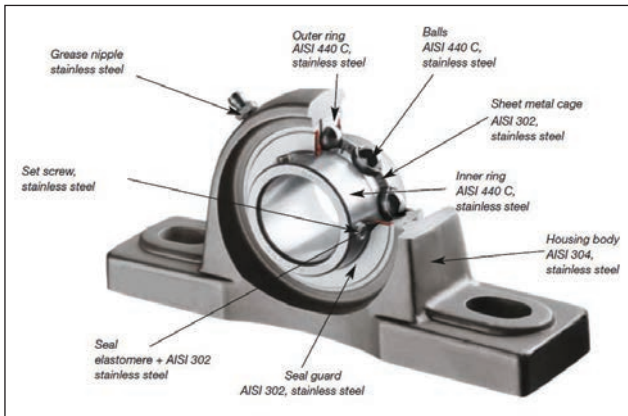




Technical specification - materials



Suitable for:

- Wet environments.
- Chemical environments.
- Frequent wash downs.

e.g. food, pharmaceuticals, bottling, outdoor application etc.

Protective end caps made of stainless steel, SCC and SCO models



- Open protective end cap for through shafts with double-lip seal made of flourine elastomer.
- Closed protective end cap for shaft ends.
- Stainless steel AISI 304.
- Shafts \varnothing 12 - 60mm.
- Standard sizes available from stock.

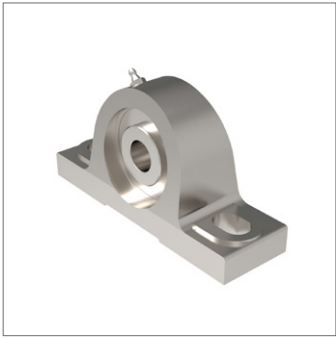
- Stainless steel self-aligning units. Stainless steel (AISI 304 body) with AISI 440C stainless bearing unit.
- For shafts \varnothing 12-60mm.
- Lubricated with food grade grease (USDA H1 approved), Mobil FM102.
- Temperature range -20°C to $+120^{\circ}\text{C}$.



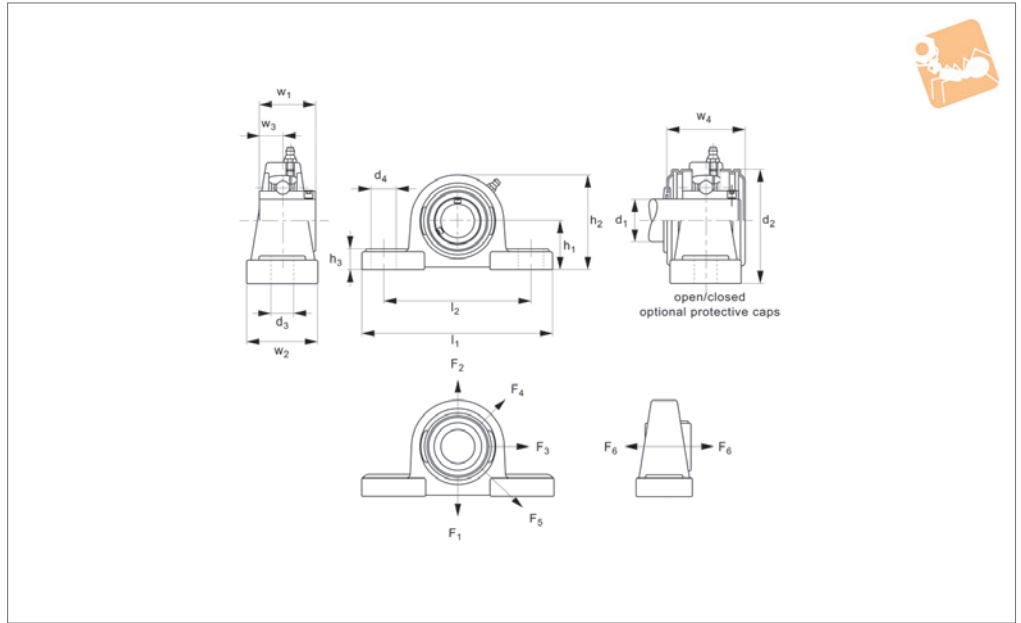
- Generally used in food, pharmaceutical and chemical industries, or where washdown is needed/ outdoor applications.
- Use with h6 tolerance shafts.

Bearing Supports from Automation Components

BEARING MOUNTS



L1870



Material

Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes

Self-aligning bearing units.
Temperature range for bearings: -15°C to

+120°C.

Resistant to a moisture and a wide range of aggressive chemicals.

For optional shaft end caps add suffixes:

- CO for two open protective caps (with seals) for through shafts.
- CC for one open and one closed protective caps for shaft ends.

Tips

Shaft retention with two set screws (at 120° offset).

Used with h6 tolerance shafts (see our part no.s L1770-L1776).

Maximum housing loads measured @ 20°C.

Order No.	d ₁ for h6	l ₁	d ₂	d ₃	d ₄	h ₁	h ₂ +0 -0.8	h ₃	l ₂	w ₁	w ₂	w ₃	w ₄	Weight kg
L1870.012	12	126	54	13	19	33.3	65	15	95	31.0	38	12.7	45.6	0.83
L1870.015	15	126	54	13	19	33.3	63	15	95	31.0	38	12.7	45.6	0.80
L1870.017	17	126	54	13	19	33.3	65	15	95	31.0	38	12.7	45.6	0.84
L1870.020	20	126	54	13	19	33.3	65	15	95	31.0	38	12.7	45.6	0.82
L1870.025	25	140	60	13	19	36.5	70	16	105	34.1	38	14.3	47.8	0.95
L1870.030	30	165	70	17	21	42.9	83	18	121	38.1	48	15.9	52.8	1.58
L1870.035	35	167	80	17	21	47.6	94	19	127	42.9	48	17.5	57.4	1.95
L1870.040	40	184	88	17	23	49.2	100	19	136	49.2	54	19.0	66.8	2.39
L1870.045	45	190	95	17	23	54.0	109	20	146	49.2	54	19.0	67.8	2.72
L1870.050	50	206	100	20	25	57.2	114	22	159	51.6	60	19.0	75.6	3.28
L1870.055	55	219	110	20	25	63.5	126	23	171	55.6	60	22.2	75.2	4.12
L1870.060	60	241	120	20	25	69.8	138	25	184	65.1	70	25.4	87.8	5.71

Order No.	Speed rpm max.	Dyn. load C kN max.	Static bearing load C ₀ kN max.	Housing load F ₁ kN max.	Housing load F ₆ kN max.	Housing load F ₂ kN max.	Housing load F ₃ kN max.	Torque screw to Nm	Housing load F ₄ kN max.	Housing load F ₅ kN max.	Set screw size
L1870.012	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.015	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.017	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.020	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1870.025	4000	11.0	8.0	180	36	74	120	8.5	56	180	M 6x1
L1870.030	3400	15.3	11.5	240	44	100	180	8.5	70	240	M 6x1



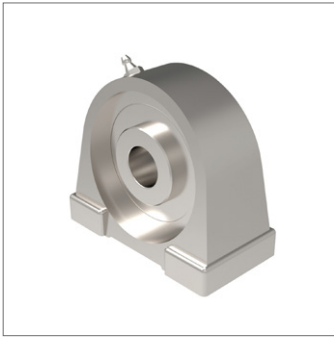
Stainless Pillow Block Bearing Units

Bearing Mounts

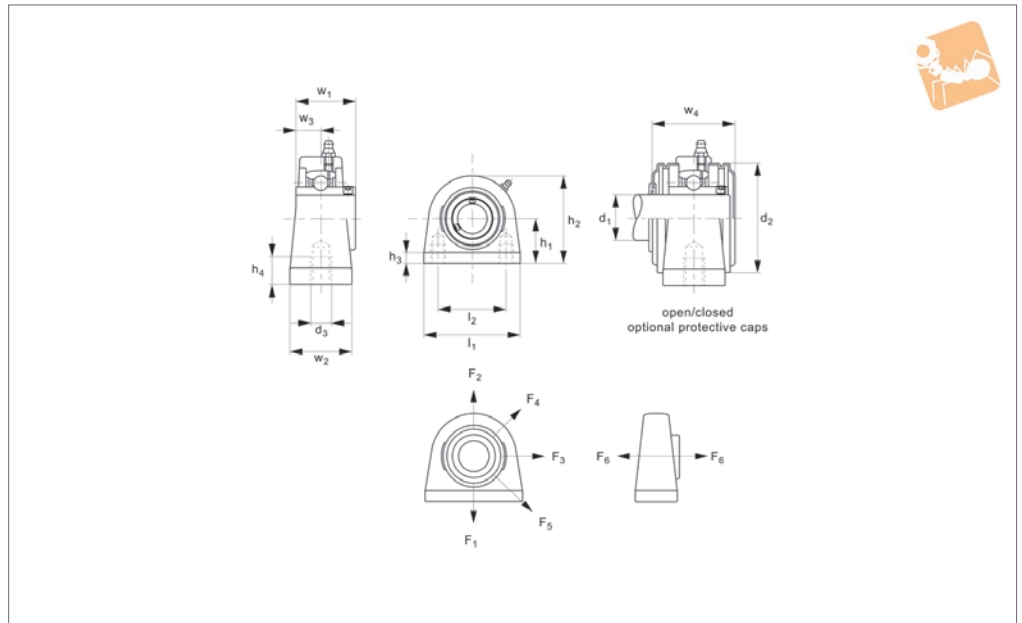


Order No.	Speed rpm max.	Dyn. load C kN max.	Static bearing load C ₀ kN max.	Housing load F ₁ kN max.	Housing load F ₆ kN max.	Housing load F ₂ kN max.	Housing load F ₃ kN max.	Torque screw to Nm	Housing load F ₄ kN max.	Housing load F ₅ kN max.	Set screw size
L1870.035	3000	20.1	15.6	320	48	120	200	20	88	320	M 8x1
L1870.040	2600	22.8	18.2	360	50	130	220	20	90	360	M 8x1
L1870.045	2400	25.7	20.8	380	52	140	240	40	98	380	M 10x1,25
L1870.050	2200	27.5	23.7	380	64	150	280	40	110	380	M 10x1,25
L1870.055	1800	34.0	25.5	475	80	191	350	40	262	475	M 10x1,25
L1870.060	1600	41.0	31.5	587	99	236	433	40	324	587	M 10x1,25

BEARING MOUNTS



L1871



Material

Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes

Self-aligning bearing units.

Temperature range for bearings: -15°C to $+120^{\circ}\text{C}$.

Resistant to a moisture and a wide range of aggressive chemicals.

For shaft end caps add suffixes:

- CO for open (with seal)
- CC for closed.

Tips

Shaft retention with two set screws (at 120° offset).

Used with h6 tolerance shafts (see our part no.s L1770-L1776).

Maximum housing loads measured @ 20°C .

Order No.	d_1 for h6	l_1	d_2	d_3	h_1	h_2 +0 -0.8	h_3	h_4	l_2	w_1	w_2	w_3	w_4	Weight kg
L1871.012	12	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.73	33.3
L1871.015	15	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.71	33.3
L1871.017	17	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.70	33.3
L1871.020	20	73	M 8	50.8	54	11	13	31.0	65	38	12.7	45.6	0.68	33.3
L1871.025	25	76	M10	50.8	60	11	13	34.1	71	38	14.3	47.8	0.78	36.5
L1871.030	30	102	M10	76.2	70	12	16	38.1	86	38	15.9	52.8	1.30	42.9
L1871.035	35	108	M10	82.6	80	12	19	42.9	95	48	17.5	57.4	1.72	47.6
L1871.040	40	117	M12	89.0	88	13	19	42.9	100	48	19.0	66.8	1.91	49.2
L1871.045	45	127	M12	95.3	95	13	19	49.2	108	51	19.0	67.8	2.33	54.0
L1871.050	50	140	M16	101.6	100	13	19	51.6	117	51	19.0	75.6	2.83	57.2

Order No.	Speed rpm	Dyn. load C kN max.	Static bearing load C_0 kN max.	Housing load F_1 kN max.	Housing load F_6 kN max.	Housing load F_2 kN max.	Housing load F_3 kN max.	Torque screw to Nm	Housing load F_4 kN max.	Housing load F_5 kN max.	Set screw size
L1871.012	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.015	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.017	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.020	4800	10.1	6.8	160	34	66	110	8.5	50	160	M 6x1
L1871.025	4000	11.0	8.0	180	36	74	120	20	56	180	M 8x1
L1871.030	3400	15.3	11.5	240	44	100	180	20	70	240	M 8x1
L1871.035	3000	20.1	15.6	320	48	120	200	40	88	320	M 10x1,25



Stainless Pillow Block Bearing Units blind holes

Bearing Mounts

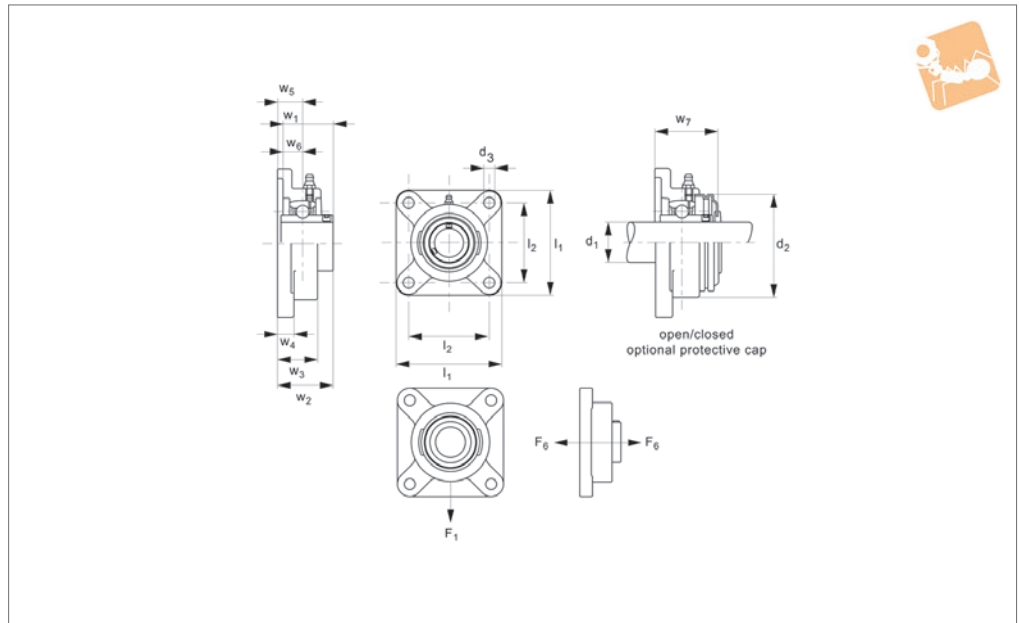


Order No.	Speed rpm	Dyn. load C kN max.	Static bearing load C ₀ kN max.	Housing load F ₁ kN max.	Housing load F ₆ kN max.	Housing load F ₂ kN max.	Housing load F ₃ kN max.	Torque screw to Nm	Housing load F ₄ kN max.	Housing load F ₅ kN max.	Set screw size
L1871.040	2600	22.8	18.2	360	50	130	220	40	90	360	M 10x1,25
L1871.045	2400	25.7	20.8	380	52	140	240	40	98	380	M 10x1,25
L1871.050	2200	27.5	23.7	380	64	150	280	40	110	380	M 10x1,25

BEARING MOUNTS



L1872



Material

Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes

Self-aligning bearing units.
Temperature range for bearings: -15°C to

+120°C.

Resistant to a moisture and a wide range of aggressive chemicals.

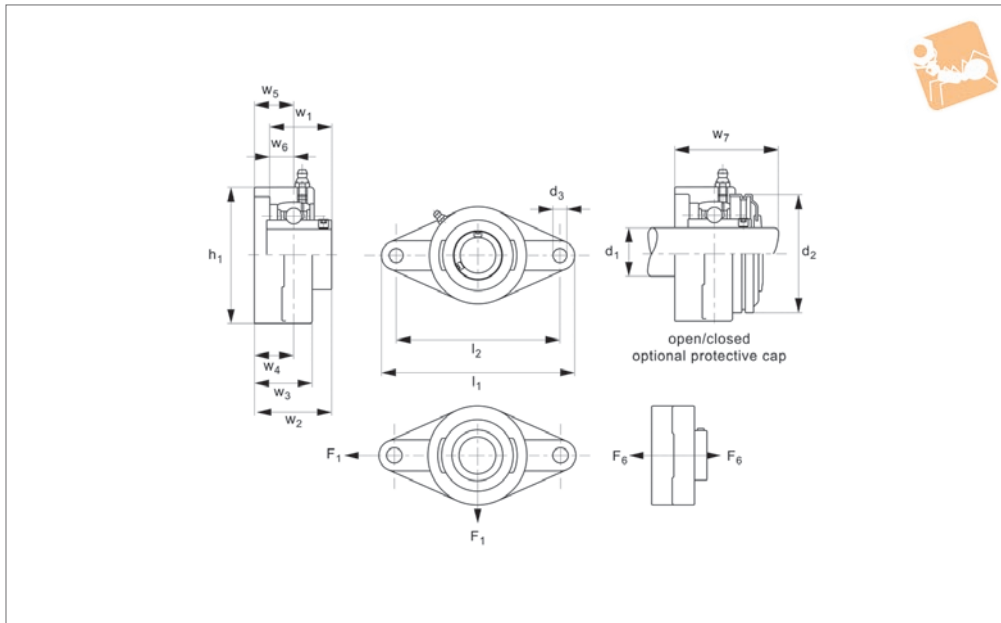
For optional shaft end caps add suffixes:
-CO for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

Tips

Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
Maximum housing loads measured @ 20°C.

Order No.	d ₁ for h6	l ₁	d ₂	d ₃	l ₂	w ₁	w ₂ +0.3 -0	w ₃	w ₄	w ₅	Weight kg
L1872.012	12	86	12	64	31.0	33.3	25.5	12.0	15	0.66	54
L1872.015	15	86	12	64	31.0	33.3	25.5	12.0	15	0.64	54
L1872.017	17	86	12	64	31.0	33.3	25.5	12.0	15	0.63	54
L1872.020	20	86	12	64	31.0	33.3	25.5	12.0	15	0.61	0.71
L1872.025	25	95	12	70	34.1	35.8	27.0	14.0	16	0.82	60
L1872.030	30	108	12	83	38.1	40.2	30.5	14.0	18	1.31	70
L1872.035	35	116	14	92	42.9	44.4	33.5	14.5	19	1.41	80
L1872.040	40	130	16	102	49.2	51.2	36.0	14.5	21	1.89	88
L1872.045	45	137	16	105	49.2	52.2	38.0	15.5	22	2.32	95
L1872.050	50	143	16	111	51.6	54.6	40.0	15.0	22	2.65	100
L1872.055	55	162	19	130	55.6	58.4	44.0	20.0	25	4.06	110
L1872.060	60	175	19	143	65.1	68.7	48.0	20.0	29	5.48	120

Order No.	w ₆	w ₇	Speed rpm	Dyn. load C kN max.	Static bearing load C ₀ kN max.	Housing load F ₁ kN max.	Housing load F ₆ kN max.	Torque screw to Nm	Set screw size
L1872.012	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.015	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.017	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.020	12.7	37.8	4800	10.1	6.8	86	36	8.5	M 6x1
L1872.025	14.3	39.9	4000	11.0	8.0	130	50	8.5	M 6x1
L1872.030	15.9	44.4	3400	15.3	11.5	130	60	8.5	M 6x1
L1872.035	17.5	48.2	3000	20.1	15.6	130	70	20	M 8x1
L1872.040	19.0	54.4	2600	22.8	18.2	140	78	20	M 8x1
L1872.045	19.0	55.9	2400	25.7	20.8	200	90	40	M 10x1,25
L1872.050	19.0	59.8	2200	27.5	23.7	200	100	40	M 10x1,25
L1872.055	22.2	62.6	1800	34.0	25.5	255	125	40	M 10x1,25
L1872.060	25.4	72.9	1600	41.0	31.5	315	155	40	M 10x1,25



L1873

BEARING MOUNTS

Material

Stainless steel (AISI 304), with smooth surfaces. Bearing stainless steel (440C) with 2RS seals, lubricated with food grade grease (USDA approved).

Technical Notes

Self-aligning bearing units.
Temperature range for bearings: -15°C to

+120°C.

Resistant to a moisture and a wide range of aggressive chemicals.

For optional shaft end caps add suffixes:
-CO for one open protective cap (with seal) for through shafts
-CC for closed protective cap for shaft ends.

Tips

Shaft retention with two set screws (at 120° offset).
Used with h6 tolerance shafts (see our part no.s L1770-L1776).
Maximum housing loads measured @ 20°C.

Order No.	d ₁ for h6	l ₁	d ₂	d ₃	h ₁	l ₂	w ₁	w ₂ +0.3 -0	w ₃	w ₄	Weight kg
L1873.012	12	112	12	90	46	31.0	33.3	25.5	12	0.52	60
L1873.015	15	112	12	90	46	31.0	33.3	25.5	12	0.51	60
L1873.017	17	112	12	90	46	31.0	33.3	25.5	12	0.49	60
L1873.020	20	112	12	90	54	31.0	33.3	25.5	12	0.47	60
L1873.025	25	125	16	99	60	34.1	35.8	27.0	13	0.60	68
L1873.030	30	141	16	117	70	38.1	40.2	31.0	13	0.89	80
L1873.035	35	156	16	130	80	42.9	44.4	33.0	15	1.18	90
L1873.040	40	172	19	144	88	49.2	51.2	36.0	15	1.53	100
L1873.045	45	180	19	148	95	49.2	52.2	38.0	15	1.81	108
L1873.050	50	190	19	157	100	51.6	54.6	39.0	16	2.17	115

Order No.	w ₅	w ₆	w ₇	Dyn. load C kN max.	Static bearing load C ₀ kN max.	Housing load F ₁ kN max.	Torque screw to Nm	Set screw size	Axial load F ₆ kN max.
L1873.012	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.015	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.017	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.020	15	12.7	37.8	10.1	6.8	48	8.5	M 6x1	24
L1873.025	16	14.3	39.9	11.0	8.0	76	20	M 8x1	32
L1873.030	18	15.9	44.4	15.3	11.5	76	20	M 8x1	40
L1873.035	19	17.5	47.7	20.1	15.6	80	40	M 10x1,25	46
L1873.040	21	19.0	54.4	22.8	18.2	82	40	M 10x1,25	54
L1873.045	22	19.0	55.9	25.7	20.8	120	40	M 10x1,25	64
L1873.050	22	19.0	59.8	27.5	23.7	124	40	M 10x1,25	78



Ball bearing units made of stainless steel are used in areas where corrosion resistance is a must. In these areas, where high atmospheric humidity or the requirement for periodic washdown of the equipment is necessary to prevent bacteria growth, conventional ball bearing units made of cast iron do not suit.

We offer a comprehensive standard range of ball bearing units made of stainless steel. To satisfy the requirements of the pharmaceutical and food industries all our ball bearing units made of stainless steel are filled with grease meeting the USDA H1 food grade specification.

Bearing i/d Ø	Max. rpm	Max. dynamic bearing load kN	Max. static bearing load kN
12	4800	10,1	6,8
15	4800	10,1	6,8
17	4800	10,1	6,8
20	4800	10,1	6,8
25	4000	11,0	8,0
30	3400	15,3	11,5
35	3000	20,1	15,6
40	2600	22,8	18,2
45	2400	25,7	20,8
50	2200	27,5	23,7
55	1800	34,0	25,5
60	1600	41,0	31,5

Tightening torques

Ø	Set screw	Torque to Nm
12-30	M6 x 1	8,5
35-40	M8 x 1	20
45-60	M 10 x 1,5	40

Bearing Supports from Automation Components

BEARING MOUNTS



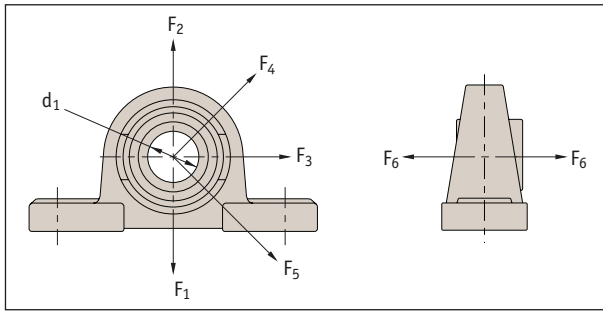
Stainless Pillow Blocks

Maximum housing loads

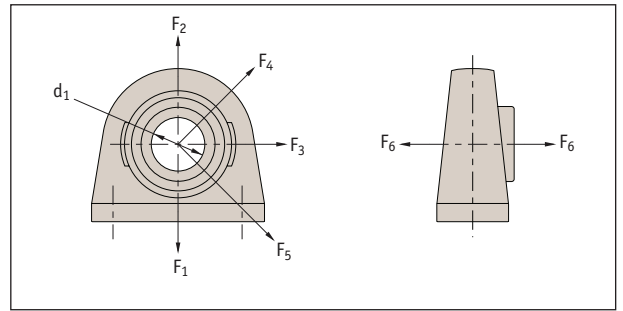
Bearing Support Units



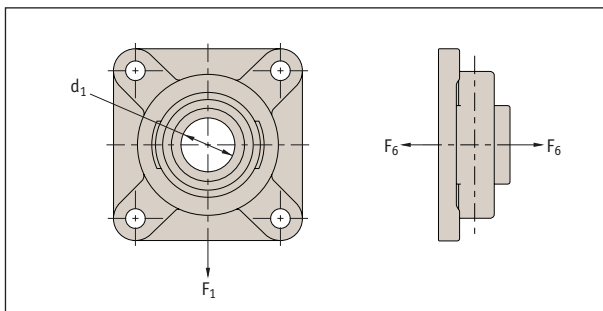
BEARING MOUNTS



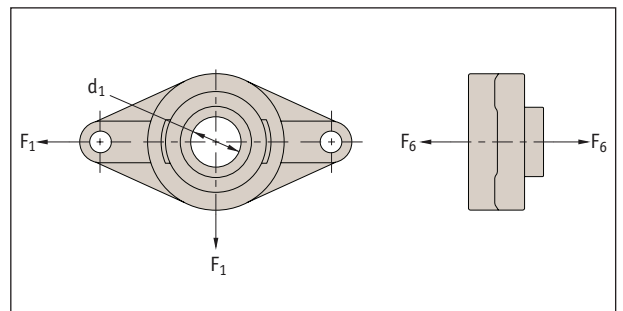
Order no.	Static load carrying capacity (kN) Load direction						Ød ₁
	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	
L1870.012-020	160	66	110	50	160	34	12-20
L1870.012-025	180	74	120	56	180	36	25
L1870.012-030	240	100	180	70	240	44	30
L1870.012-035	320	120	200	88	320	48	35
L1870.012-040	360	130	220	90	360	50	40
L1870.012-045	380	140	240	98	380	52	45
L1870.012-050	380	150	280	110	380	64	50
L1870.012-055	475	191	350	262	475	80	55
L1870.012-060	587	236	433	324	587	99	60



Order no.	Static load carrying capacity (kN) Load direction						Ød ₁
	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	
L1871.012-020	160	66	110	50	160	34	12-20
L1871.012-025	180	74	120	56	180	36	25
L1871.012-030	240	100	180	70	240	44	30
L1871.012-035	320	120	200	88	320	48	35
L1871.012-040	360	130	220	90	360	50	40
L1871.012-045	380	140	240	98	380	52	45
L1871.012-050	380	150	280	110	380	64	50



Order no.	Static load carrying capacity (kN) Load direction						Ød ₁
	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	
L1872.012-020	86	-	-	-	-	36	12-20
L1872.012-025	130	-	-	-	-	50	25
L1872.012-030	130	-	-	-	-	60	30
L1872.012-035	130	-	-	-	-	70	35
L1872.012-040	140	-	-	-	-	78	40
L1872.012-045	200	-	-	-	-	90	45
L1872.012-050	200	-	-	-	-	100	50
L1872.012-055	255	-	-	-	-	125	55
L1872.012-060	315	-	-	-	-	155	60



Order no.	Static load carrying capacity (kN) Load direction						Ød ₁
	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	
L1873.012-020	48	-	-	-	-	24	12-20
L1873.012-025	76	-	-	-	-	32	25
L1873.012-030	76	-	-	-	-	40	30
L1873.012-035	80	-	-	-	-	46	35
L1873.012-040	82	-	-	-	-	54	40
L1873.012-045	120	-	-	-	-	64	45
L1873.012-050	124	-	-	-	-	78	50

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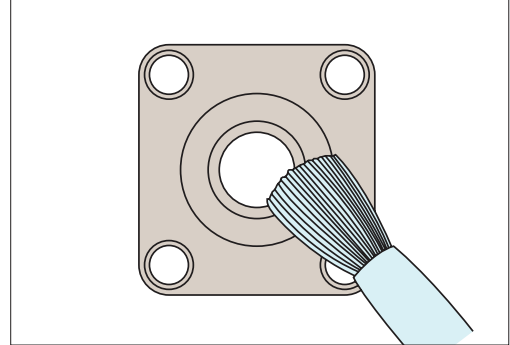


Description of the installation steps

Self-aligning bearing units must be installed under conditions that ensure maximum bearing life. We recommend that you refer to the following chapters and follow the reference procedures for this type of bearing unit.

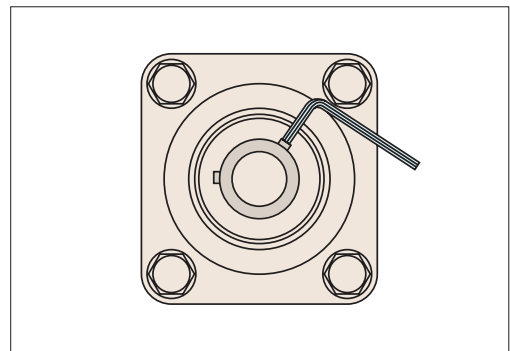
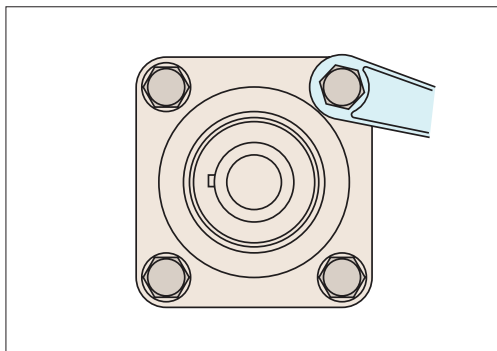
When installing sealed bearings, grease the seals to avoid dry operation when the shaft first starts to rotate.

Make sure that the seating surfaces are perfectly clean and flat before starting any installation operations.



Install the shaft by mounting the bearing unit housings on the supporting frame. Tighten the inner ring retaining screw to the required torque indicated in the torque value table.

In all cases the shaft is installed first by attaching the bearing unit housings to the supporting frame. Tighten the screws in alternate diagonals.



Installation / removal of protective covers

The covers (if required) are installed by snap-fitting, which can be done with a light blow of a mallet. They are removed by inserting the tip of a screwdriver into the cavity and applying light pressure to release them.

