Spherical Roller Bearing Units and Takeups

Contents

Series B22400

Series B22500

Max Mount™ Series B22600

Series B22400

Spherical Roller Bearing Units and Takeups

Series B22400 collar mounted spherical roller bearing units provide economic and versatile arrangements for supporting shafts carrying substantial radial or combination radial and thrust loads. These units are especially adaptable for conveyors, elevators, general industrial machinery, heavier duty fans and blowers, power transmission applications, ditchers, trenchers, pavers and other such applications. Series B22400 units are easy to mount, sealed, prelubricated and do not require bearing adjustment during mounting.

① Spring locking collar locks inner ring securely to shaft.

② Choice of two seals, floating labyrinth Type H and spring-loaded lip Type E.

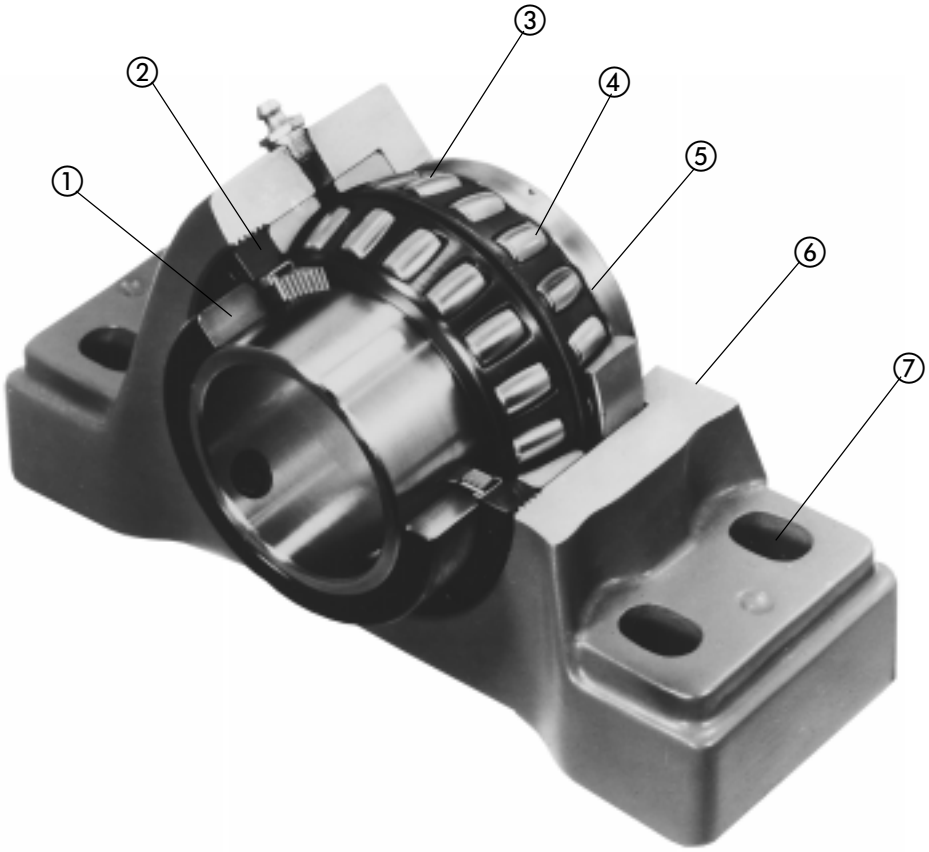
③ Long inner ring for high stability and load support.

④ Self-aligning double row spherical roller bearing adjusts ±2° to allow for alignment variations between shaft and supporting structure.

⑤ Double contoured retainer pockets assure accurate roller guidance and positive roller control.

⑥ Sturdy, compact one-piece cast iron or cast steel housing.

⑦ Slotted bolt holes in pillow block bases facilitate mounting; bottom of base is machined.



Spherical Roller Bearings

Series B22400 self-aligning double row spherical roller bearings have high LDN values and are designed to distribute the load over the symmetrical rollers, assuring positive tracking and smooth operation. The large roller complement provides high capacity for radial or combined radial-thrust loads. Osculation clearance at the ends of the rollers compensates for shock loads and prevents destructive edge loading. These precision bearings with double contoured retainer pockets are designed to meet a broad range of application requirements.

Spring Locking Collar

The spring locking collar design provides a secure grip of the wide inner ring bearing to the shaft. The two set screws extend through the inner ring of the bearing and lock firmly onto the shaft. Installation is fast and simple. Correctly tightening the two set screws produces elastic strain in the spring locking collar resulting in a continuous pressure on the set screw threads and providing a positive lock.

Seals

Two standard sealing systems are available. . .each offering maximum protection for the bearing.

Type H floating labyrinth seals have multiple self-centering rings held securely in a steel carrier. Type H seals are normally furnished.

Type E spring-loaded lip seals utilize a spring to provide uniform pressure for keeping the sealing lip in contact with the inner ring. Type E seals are normally used for liquid splash environments.

Seals are interchangeable and are designed for grease lubrication.

TYPE H SEAL

TYPE E SEAL

One-Piece Cast Iron or Cast Steel Housings

Compact one-piece housings provide for strength and load support. Scientifically contoured housing design provides superior rigidity. Cast iron or cast steel pillow blocks have two or four slotted bolt holes with ample space provided for drilling dowel pin holes. Flanged and flanged cartridge units have drilled mounting holes and machined mounting surfaces for maximum stability. Cartridge units have cast iron or steel housings and are finished to precision tolerances. Takeup units have machined slots for smooth, precise operation. Pillow blocks, flanged, and cartridge units are available for fixed or expansion operation.

Series B22400
Spherical Roller Bearing Units

Pillow Blocks, cast iron

EP-B22400H*, EPE-B22400H*, EP-B22400FH*, EPE-B22400FH*
P-B22400H, PE-B22400H, P-B22400FH, PE-B22400FH
P-B22500FH, PE-22500FH

Self-aligning 2-bolt base pillow blocks for shaft sizes 1" through 4" and *25 mm* through *100 mm*, and 4-bolt base pillow blocks for shaft sizes 1 15/16" through 5" and *45 mm* through *125 mm*. Units are available for fixed or expansion mounting.

Load ratings on pages D-7 and D-8.
Dimensions on pages D-9 through D-12.
Additional information on page D-68.

***Self-aligning Type E Interchange**

Pillow Blocks, cast steel

PK-B22400H, PKE-B22400H, PK-B22400FH, PKE-B22400FH,
PK-B22500FH, PKE-B22500FH

Self-aligning 2-bolt base pillow blocks for shaft sizes 1 3/16" through 4" and *30 mm* through *100 mm*, 4-bolt base pillow blocks for shaft sizes 1 15/16" through 5" and *45 mm* through *125 mm*. Units are available for fixed or expansion mounting.

Load ratings on pages D-7 and D-8.
Dimensions on pages D-13 and D-14.
Additional information on page D-68.

Flanged Units, cast iron

EFR-B22400H*
F-B22400H, FE-B22400H

Self-aligning flanged units for shaft sizes 1" through 4" and *25 mm* through *100 mm*. Units are available for fixed or expansion mounting.

Load ratings on pages D-7 and D-8.
Dimensions on pages D-17 and D-18.
Additional information on page D-68.

***Self-aligning Type E Interchange**

Flanged Cartridge Units, cast iron

FC-B22400H*

Self-aligning flanged cartridge units for shaft sizes 1" through 4" and 25 *mm* through *100 mm*. Units are available for fixed mounting.

Load ratings on pages D-7 and D-8.
Dimensions on page D-20.
Additional information on page D-68.

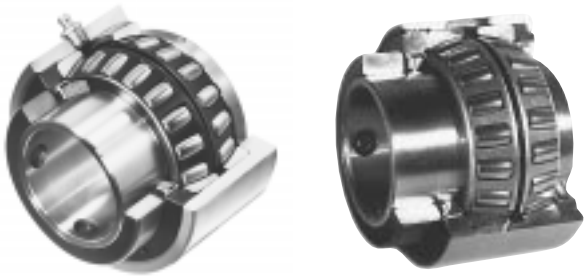
***Self-aligning Type E Interchange**

Cartridge Units, cast iron and steel

C-B22400H, CSE-B22400H

Self-aligning cartridge units. Cast iron housings for shaft sizes 1" through 3½" and *25 mm* through *85 mm*, steel housings for shaft sizes 1" through 4" and *25 mm* through *100 mm*. Cast iron cartridge units are for fixed mounting and steel cartridge units are available for fixed or expansion mounting.

Load ratings on pages D-7 and D-8.
Dimensions on pages D-15 and D-16.
Additional information on page D-68.



Takeup Units, cast iron

T-B22400H

Self-aligning units for takeup applications with shaft sizes 1" through 4" and *25 mm* through *100 mm*. Fixed units without frames, guides, or adjusting screws.

Load ratings on pages D-7 and D-8.
Dimensions on page D-21.
Additional information on page D-68.

Takeups, cast iron

DS-B22400H; DS-B22500H, LHD

DS-B22400H and DS-B22500H for shaft sizes 1 15⁄16" through 4 7⁄16" and *45 mm* through *115 mm* have welded steel adjustable frames.

LHD universal takeup frames use pillow blocks mounted to takeup frame. For shaft sizes 1 3⁄16" through 5" and *25 mm* through *125 mm*.

Load ratings on pages D-7 and D-8.
Dimensions on pages D-22 through D-24.
Additional information on page D-68.

Replacement Bearings

B22400HL

Self-aligning double row spherical roller bearings with spring locking collars for shaft sizes 1" through 4" and *25 mm* through *100 mm*.

Load ratings on pages D-7 and D-8.
Dimensions on page D-26.
Additional information on page D-68.

Selection
Series B22400

To select a bearing, determine the applied radial load, the applied thrust load, the desired Rating Life, and applicable operating conditions. The procedure shown here will aid in selecting a bearing to meet an L_{10} design life. The formulas for calculating life expectancy should be used to determine the Rating Life L_{10} for the bearing selected.

The selection procedures and rating formulas shown here are in agreement with The American Bearing Manufacturers Association Standards and ANSI/ ABMA Standards STD 11-1990. Ratings are based on fatigue life. The Rating Life L_{10} or fatigue life at 90% reliability is the usual basis for bearing selection.

For radial load applications only, Table 3, page D-8, can be used to select a bearing or to determine L_{10} life expectancy.

To assure a satisfactory bearing application, fitting practice, mounting, lubrication, sealing, static rating, housing strength, operating conditions and maintenance must be considered.

Bearing Selection

Step 1 Determine an appropriate L_{10} design life.

Type of service	Operating time, hours per year	Design life, years	L_{10} design life, hours
Light seasonal usage	500 to 750	3-5	3,000
Heavy seasonal usage	1,400 to 1,600	4-6	8,000
Industrial—8 hour shift	2,000	10	20,000
Industrial—16 hour shift	4,000	10	40,000
Industrial—continuous	8,700	10	80,000 to 100,000

Step 2 Determine a required $\left(\frac{C}{P}\right)$ from Table 1.

Step 3 Calculate the required C and select a roller bearing.

a For radial load only:

$P = F_r$

required C = $\left(\frac{C}{P}\right) P$ using $\left(\frac{C}{P}\right)$ from Step 2

Select a roller bearing from Table 2, page D-7 with a basic load rating C equal to or greater than the required C.

b For combined radial and thrust loads:

Select a trial roller bearing of the desired shaft size from Table 2, page D-7.

Calculate the ratio of thrust load F_a to the radial load F_r.

$\frac{F_a}{F_r}$

Calculate the equivalent radial load P

$$P = XF_r + YF_a$$

If $\frac{F_a}{F_r}$ is equal to or less than e, then $P = X_1F_r + Y_1F_a$

If $\frac{F_a}{F_r}$ is greater than e, then $P = X_2F_r + Y_2F_a$

For values of e, X_1, Y_1, X_2, and Y_2, see Table 2, page D-7.

Calculate the required C

required C = $\left(\frac{C}{P}\right) P$ using $\left(\frac{C}{P}\right)$ from Step 2.

Consult Table 2, page D-7, basic load rating. If a smaller bearing meets, or nearly meets, the required C, its life expectancy can be calculated.

Note: If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.

Selection
Series B22400

symbols for formulas:

C = basic load rating, pounds (or newtons)
C_o = static load rating, pounds (or newtons)
e = a reference value
F_a = thrust load, pounds (or newtons)
F_r = radial load, pounds (or newtons)
L_{10} = rating life, hours
n = speed, revolutions per minute
P = equivalent radial load, pounds (or newtons)
X = radial factor
Y = thrust factor

basic formulas:

$$\left(\frac{C}{P}\right) = \left(\frac{L_{10} \times n \times 60}{1{,}000{,}000}\right)^{3/10}$$

$$L_{10} = \frac{\left(\frac{C}{P}\right)^{10/3} \times 1{,}000{,}000}{n \times 60}$$

Table 1 • Relation of L_{10} life and speed to $\left(\frac{C}{P}\right)$

Bearing life, hours L_{10}	$\left(\frac{C}{P}\right)$ ratio								
	Speed, n								
	50	100	200	300	400	500	600	700	800
3000	1.93	2.38	2.93	3.31	3.61	3.86	4.07	4.27	4.44
4000	2.11	2.59	3.19	3.61	3.93	4.20	4.44	4.65	4.84
5000	2.25	2.77	3.42	3.86	4.20	4.50	4.75	4.97	5.18
6000	2.38	2.93	3.61	4.07	4.44	4.75	5.02	5.25	5.47
8000	2.59	3.19	3.93	4.44	4.84	5.18	5.47	5.73	5.96
10000	2.77	3.42	4.20	4.75	5.18	5.54	5.85	6.12	6.37
12000	2.93	3.61	4.44	5.02	5.47	5.85	6.18	6.47	6.73
14000	3.07	3.78	4.65	5.25	5.73	6.12	6.47	6.77	7.05
16000	3.19	3.93	4.84	5.47	5.96	6.37	6.73	7.05	7.34
18000	3.31	4.07	5.02	5.66	6.18	6.60	6.97	7.30	7.60
20000	3.42	4.20	5.18	5.85	6.37	6.81	7.20	7.54	7.85
25000	3.65	4.50	5.54	6.25	6.81	7.29	7.70	8.06	8.39
30000	3.86	4.75	5.85	6.60	7.20	7.70	8.13	8.51	8.86
35000	4.04	4.97	6.12	6.92	7.54	8.06	8.51	8.92	9.28
40000	4.20	5.18	6.37	7.20	7.85	8.39	8.86	9.28	9.66
45000	4.36	5.36	6.60	7.46	8.13	8.69	9.18	9.61	10.00
50000	4.50	5.54	6.81	7.70	8.39	8.97	9.48	9.92	10.30
60000	4.75	5.85	7.20	8.13	8.86	9.48	10.00	10.50	10.90
70000	4.97	6.12	7.54	8.51	9.28	9.92	10.50	11.00	11.40
80000	5.18	6.37	7.85	8.86	9.66	10.30	10.90	11.40	11.90
90000	5.36	6.60	8.13	9.18	10.00	10.70	11.30	11.80	12.30
100000	5.54	6.81	8.39	9.48	10.30	11.00	11.70	12.20	12.70
150000	6.25	7.70	9.48	10.70	11.70	12.50	13.20	13.80	14.40
200000	6.81	8.39	10.30	11.70	12.70	13.60	14.40	15.00	15.70
	Speed, n								
	900	1000	1200	1500	1800	2400	3000	3600	6000
3000	4.60	4.75	5.02	5.36	5.66	6.18	6.60	6.97	8.13
4000	5.02	5.18	5.47	5.85	6.18	6.73	7.20	7.60	8.86
5000	5.36	5.54	5.85	6.25	6.60	7.20	7.70	8.13	9.48
6000	5.66	5.85	6.18	6.60	6.97	7.60	8.13	8.59	10.00
8000	6.18	6.37	6.73	7.20	7.60	8.29	8.86	9.36	10.90
10000	6.60	6.81	7.20	7.70	8.13	8.86	9.48	10.00	11.70
12000	6.97	7.20	7.60	8.13	8.59	9.36	10.00	10.60	12.30
14000	7.30	7.54	7.96	8.51	8.99	9.80	10.50	11.10	12.90
16000	7.60	7.85	8.29	8.86	9.36	10.20	10.90	11.50	13.40
18000	7.88	8.13	8.59	9.18	9.70	10.60	11.30	11.90	13.90
20000	8.13	8.39	8.86	9.48	10.00	10.90	11.70	12.30	14.40
25000	8.69	8.97	9.48	10.10	10.70	11.70	12.50	13.20	15.40
30000	9.18	9.48	10.00	10.70	11.30	12.30	13.20	13.90	16.20
35000	9.61	9.92	10.50	11.20	11.80	12.90	13.80	14.60	17.00
40000	10.00	10.30	10.90	11.70	12.30	13.40	14.40	15.20	17.70
45000	10.40	10.70	11.30	12.10	12.80	13.90	14.90	15.70	18.30
50000	10.70	11.00	11.70	12.50	13.20	14.40	15.40	16.20	18.90
60000	11.30	11.70	12.30	13.20	13.90	15.20	16.20	17.10	20.00
70000	11.80	12.20	12.90	13.80	14.60	15.90	17.00	17.90	20.90
80000	12.30	12.70	13.40	14.40	15.20	16.50	17.70	18.70	21.80
90000	12.80	13.20	13.90	14.90	15.70	17.10	18.30	19.40	22.60
100000	13.20	13.60	14.40	15.40	16.20	17.70	18.90	20.00	23.30
150000	14.90	15.40	16.20	17.30	18.30	20.00	21.40	22.60	26.30
200000	16.20	16.70	17.70	18.90	20.00	21.80	23.30	24.60	28.70

Life Expectancy

To calculate the Rating Life L_{10} of any selected or trial bearing:

Step 1 Determine the equivalent radial load P.

a For radial load only:

$P = F_r$

b For combined radial and thrust load:

$$P = XF_r + YF_a$$

If $\frac{F_a}{F_r}$ is equal to or less than e, then

$$P = X_1F_r + Y_1F_a$$

If $\frac{F_a}{F_r}$ is greater than e, then

$$P = X_2F_r + Y_2F_a$$

For values of e, X_1, Y_1, X_2, and Y_2, see Table 2, page D-7.

Step 2 Calculate the ratio of the basic load rating C to the equivalent radial load.

$\frac{C}{P}$

Step 3 Approximate the bearing life from Table 1.

Life Adjustment

The Rating Life, L_{10}, may be modified for some applications in accordance with the formula

$$L_n' = a_1a_2a_3L_{10}$$

where L_n' = Adjusted life for (100-n) % reliablility,
a_1 = Life adjustment factor for reliability
a_2 = Life adjustment factor for material and processing
a_3 = Life adjustment factor for operating conditions.

For most normal applications, all factors will be taken as 1, and the Rating Life used as the selection basis or life estimate. In addition, as long as standard catalog bearings are used, a_2 will be normally set equal to one. The factor a_3 covers such things as lubrication, misalignment, and temperature. Some conditions that could yield a_3 significantly different than unity include speeds less than 20000 DN or greater than 200000 DN, temperatures below –40°F (–40°C) or above 275°F (135°C). For other possible conditions, as well as additional information on life adjustment factors, consult Link-Belt Bearing Division, Rexnord Corp.

Load Ratings
Series B22400

Table 2 • Load ratings and speed limits

Shaft diameter		Bearing size number	C_0 Static load rating		C Basic load rating		Approximate speed limit RPM ●	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
mm	inches		*newtons*	pounds	*newtons*	pounds	H and E seals		X_1	Y_1	X_2	Y_2
	1	B22416	*66 100*	14900	*51 200*	11500	3500	.51	1.00	1.32	.67	1.96
25		*B224M25*										
	1 3/16	B22419										
	1 1/4	B22420	*80 500*	18100	*60 900*	13700	3000	.48	1.00	1.40	.67	2.08
30		*B224M30*										
	1 7/16	B22423										
	1 1/2	B22424	*93 200*	20900	*64 900*	14600	2750	.44	1.00	1.54	.67	2.29
35		*B224M35*										
	1 1/2	B224B24										
	1 5/8	B22426										
	1 11/16	B22427	*127 700*	28700	*89 800*	20200	2350	.45	1.00	1.51	.67	2.25
	1 3/4	B22428										
40		*B224M40*										
	1 3/4	B224B28										
	1 15/16	B22431										
	2	B22432	*147 700*	33200	*94 300*	21200	2150	.40	1.00	1.68	.67	2.50
45		*B224M45*										
50		*B225M50*										
	2 3/16	B22435										
	2 1/4	B22436	*197 500*	44400	*117 400*	26400	1950	.40	1.00	1.68	.67	2.50
55		*B224M55*										
	2 1/4	B224B36										
	2 7/16	B22439										
	2 1/2	B22440	*238 000*	53500	*139 700*	31400	1750	.38	1.00	1.80	.67	2.68
60		*B224M60*										
	2 11/16	B22443										
	2 3/4	B22444										
	2 15/16	B22447										
	3	B22448	*318 000*	71500	*185 900*	41800	1500	.38	1.00	1.79	.67	2.67
65		*B224M65*										
70		*B224M70*										
75		*B224M75*										
	3 3/16	B22451										
	3 7/16	B22455										
	3 1/2	B22456	*403 400*	90700	*226 800*	51000	1250	.38	1.00	1.77	.67	2.64
80		*B224M80*										
85		*B224M85*										
	3 11/16	B22459										
	3 15/16	B22463										
	4	B22464	*609 400*	137000	*351 800*	79100	1100	.36	1.00	1.88	.67	2.79
90		*B224M90*										
100		*B224M100*										

For load ratings of 4 3/16" *(110 through 125 mm)*, see series B22500 page D-33.
If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.
For vertical shift application, consult Link-Belt Bearing Division, Rexnord Corp.
● Based on grease lubrication and moderate load.
Additional information, page D-68.

Load Ratings
Series B22400

Table 3 • Radial load ratings in pounds at various RPM for appropriate L_{10} life hours

Shaft diameter mm	Shaft diameter inches	Bearing size number	L_{10} Minimum life, hours	Radial load ratings, pounds — Speed, RPM 50	100	200	300	500	700	900	1000	1200	1500	1800	2000	2500	3000	3500
	1	B22416	8000	....	....	....	2590	2220	2000	1860	1800	1700	1600	1510	1470	1370	1300	1230
			20000	....	2730	2220	1970	1690	1520	1410	1370	1300	1210	1140	1110	1040	985	941
25		*B224M25*	40000	2730	2220	1800	1600	1370	1230	1140	1110	1050	985	933	904	845	800	764
			100000	2080	1690	1370	1210	1040	941	872	845	800	749	709	687	642	608	580
	1 3/16	B22419	8000	....	....	....	3080	2640	2390	2210	2140	2030	1900	1800	1740	1630	1540	
	1 1/4	B22420	20000	....	3250	2640	2340	2010	1810	1690	1630	1540	1440	1370	1320	1240	1170	
30		*B224M30*	40000	3250	2640	2140	1900	1630	1480	1370	1320	1250	1170	1110	1080	1000	953	
			100000	2480	2010	1630	1440	1240	1120	1030	1000	953	892	844	818	765	724	
	1 7/16	B22423	8000	....	....	....	3290	2820	2540	2360	2290	2170	2020	1920	1860	1740		
	1 1/2	B22424	20000	....	3470	2820	2500	2140	1930	1800	1740	1640	1540	1450	1410	1320		
35		*B224M35*	40000	3470	2820	2290	2020	1740	1570	1450	1410	1330	1250	1180	1140	1070		
			100000	2630	2140	1740	1540	1320	1200	1100	1070	1010	950	900	872	815		
	1 1/2	B224B24	8000	....	....	....	4540	3900	3520	3270	3170	3000	2800	2650	2570			
	1 5/8	B22426	20000	....	4800	3900	3450	2960	2680	2480	2400	2280	2130	2010	1950			
	1 11/16	B22427	40000	4800	3900	3170	2800	2400	2180	2010	1950	1850	1730	1630	1590			
	1 3/4	B22428																
40		*B224M40*	100000	3640	2960	2400	2130	1820	1650	1530	1490	1400	1310	1240	1200			
	1 3/4	B224B28	8000	....	....	....	4770	4100	3700	3430	3320	3140	2940	2790	2700			
	1 15/16	B22431	20000	....	5040	4100	3620	3110	2810	2600	2520	2390	2230	2110	2050			
	2	B22432	40000	5040	4100	3320	2940	2520	2280	2110	2050	1940	1810	1720	1670			
45		*B224M45*																
50		*B225M50*	100000	3830	3110	2520	2230	1910	1730	1600	1550	1480	1380	1300	1270			
	2 3/16	B22435	8000	....	....	....	5940	5100	4600	4280	4140	3920	3670	3470				
	2 1/4	B22436	20000	....	6280	5100	4510	3870	3500	3240	3140	2980	2790	2630				
55		*B224M55*	40000	6280	5100	4140	3670	3140	2840	2630	2550	2410	2260	2140				
			100000	4770	3870	3140	2790	2390	2160	2000	1940	1830	1710	1620				
	2 1/4	B224B36	8000	....	....	....	7070	6070	5480	5090	4920	4660	4360					
	2 7/16	B22439	20000	....	7470	6070	5370	4600	4170	3860	3740	3540	3310					
	2 1/2	B22440	40000	7470	6070	4920	4360	3740	3380	3130	3030	2880	2690					
60		*B224M60*	100000	5670	4600	3740	3310	2840	2570	2380	2300	2190	2040					
	2 11/16	B22443																
	2 3/4	B22444																
	2 15/16	B22447	8000	....	....	....	9410	8070	7300	6770	6550	6200	5800					
	3	B22448	20000	....	9940	8070	7150	6130	5540	5140	4980	4710	4410					
65		*B224M65*	40000	9940	8070	6550	5800	4980	4500	4180	4040	3830	3580					
70		*B224M70*	100000	7550	6130	4980	4410	3780	3420	3170	3070	2910	2720					
75		*B224M75*																
	3 3/16	B22451	8000	....	....	....	11400	9850	8900	8250	8000	7580						
	3 7/16	B22455	20000	....	12100	9850	8720	7480	6770	6270	6080	5750						
	3 1/2	B22456	40000	12100	9850	8000	7090	6080	5500	5100	4930	4670						
80		*B224M80*	100000	9210	7480	6080	5380	4610	4170	3870	3750	3550						
85		*B224M85*																
	3 11/16	B22459	8000	....	....	....	17800	15200	13800	12800	12400							
	3 15/16	B22463	20000	....	18800	15200	13500	11600	10400	9730	9420							
	4	B22464	40000	18800	15200	12400	11000	9420	8520	7900	7650							
90		*B224M90*																
100		*B224M100*	100000	14200	11600	9420	8340	7160	6470	6000	5810							

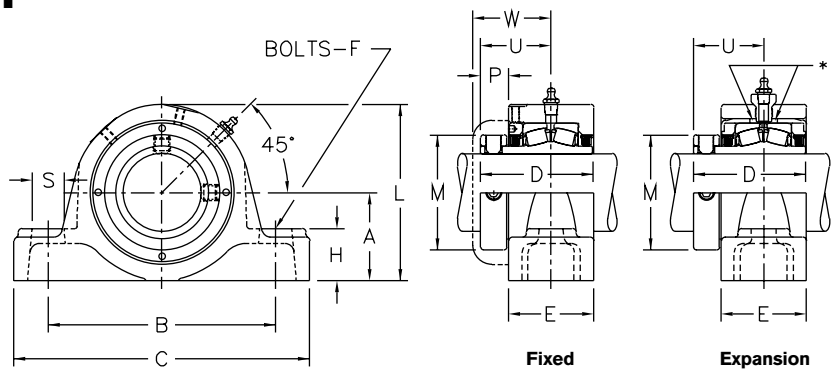
For radial load ratings of 4 3/16" through 5" *(110 mm through 125 mm)*, see series B22500 page D-34.

If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.

Spherical Roller Bearing Pillow Blocks

P-B22400H, PE-B22400H

Cast Iron Housing
2-bolt Base
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

Shaft dia. mm	Shaft dia. inches	Pillow block number Fixed	Pillow block number Expansion	A †	B	C	D	E	F Bolts	H ■	L Fixed	L Expansion	M	P	S	U	W ◆	Unit wt. (lbs./kg.)
	1	**P-B22416H**	**PE-B22416H**	1 9/16	4 3/8	5 15/16	2 9/16	2 1/16	3/8	7/8	3 1/8	3 5/16	2	17/32	5/8	1 9/16	1 29/32	5
25		*P-B224M25H*	*PE-B224M25H*	*39.67*	*111.1*	*150.8*	*65.09*	*52.4*	*10*	*22.2*	*79.4*	*84.1*	*50.8*	*13.5*	*15.9*	*39.7*	*48.4*	*2.1*
	1 3/16	**P-B22419H**	**PE-B22419H**	1 3/4	4 3/4	6 5/16	2 11/16	2 3/16	3/8	1 1/16	3 1/2	3 5/8	2 3/16	17/32	5/8	1 5/8	1 31/32	6
	1 1/4	**P-B22420H**	**PE-B22420H**															6
30		*P-B224M30H*	*PE-B224M30H*	*44.45*	*120.6*	*160.3*	*68.26*	*55.6*	*10*	*27.0*	*88.9*	*92.1*	*55.6*	*13.5*	*15.9*	*41.3*	*50.0*	*2.9*
	1 7/16	**P-B22423H**	**PE-B22423H**	1 7/8	5	6 7/8	2 7/8	2 1/4	1/2	1 3/16	3 11/16	3 7/8	2 1/2	21/32	13/16	1 25/32	2 3/16	7
	1 1/2	**P-B22424H**	**PE-B22424H**															7
35		*P-B224M35H*	*PE-B224M35H*	*47.62*	*127.0*	*174.6*	*73.02*	*57.2*	*12*	*30.2*	*93.7*	*98.4*	*63.5*	*16.7*	*20.6*	*45.2*	*55.6*	*3.2*
	1 5/8	**P-B22426H**	PE-B22426H															10
	1 11/16	**P-B22427H**	**PE-B22427H**	2 1/8	5 1/2	7 3/8	3 1/8	2 1/2	1/2	1 5/16	4 1/4	4 3/8	2 3/4	21/32	13/16	1 29/32	2 1/4	10
	1 3/4	**P-B22428H**	**PE-B22428H**															10
40		*P-B224M40H*	*PE-B224M40H*	*53.98*	*139.7*	*187.3*	*79.38*	*63.5*	*12*	*33.3*	*108.0*	*111.1*	*69.8*	*16.7*	*20.6*	*48.4*	*57.2*	*4.7*
	1 15/16	**P-B22431H**	**PE-B22431H**	2 1/4	6 1/4	8 3/8	3 1/8	2 1/2	5/8	1 3/8	4 9/16	4 9/16	2 15/16	21/32	15/16	1 29/32	2 9/32	12
	2	**P-B22432H**	**PE-B22432H**															12
45		*P-B224M45H*	*PE-B224M45H*	*57.15*	*158.8*	*212.7*	*79.38*	*63.5*	*16*	*34.9*	*115.9*	*115.9*	*74.6*	*16.7*	*23.8*	*48.4*	*57.9*	*5.5*
50		*P-B224M50H*	*PE-B224M50H*															*5.2*
	2 3/16	**P-B22435H**	**PE-B22435H**	2 1/2	6 3/4	8 7/8	3 5/16	2 9/16	5/8	1 5/8	5	5	3 3/8	25/32	15/16	2 1/16	2 7/16	14
	2 1/4	**P-B22436H**	**PE-B22436H**															14
55		*P-B224M55H*	*PE-B224M55H*	*63.50*	*171.4*	*225.4*	*84.14*	*65.1*	*16*	*41.3*	*127.0*	*127.0*	*85.7*	*19.8*	*23.8*	*52.4*	*61.9*	*6.5*
	2 7/16	**P-B22439H**	**PE-B22439H**	2 3/4	7 1/8	9 1/4	3 1/2	2 11/16	5/8	1 5/8	5 1/2	5 1/2	3 5/8	27/32	15/16	2 3/16	2 9/16	17
	2 1/2	**P-B22440H**	**PE-B22440H**															17
60		*P-B224M60H*	*PE-B224M60H*	*69.85*	*181.0*	*235.0*	*88.90*	*68.3*	*16*	*41.3*	*139.7*	*139.7*	*92.1*	*21.4*	*23.8*	*55.6*	*65.1*	*8.0*
	2 11/16	**P-B22443H**	**PE-B22443H**															29
	2 3/4	P-B22444H	PE-B22444H															29
	2 15/16	**P-B22447H**	**PE-B22447H**	3 1/4	8 1/8	10 7/16	4	3 3/16	3/4	2	6 7/16	6 7/16	4 3/16	27/32	1 1/16	2 7/16	2 25/32	27
	3	**P-B22448H**	**PE-B22448H**															27
65		*P-B224M65H*	*PE-B224M65H*															*13.2*
70		*P-B224M70H*	*PE-B224M70H*	*82.55*	*206.4*	*265.1*	*101.60*	*81.0*	*20*	*57.2*	*163.5*	*163.5*	*106.4*	*21.4*	*27.0*	*61.9*	*70.6*	*13.0*
75		*P-B224M75H*	*PE-B224M75H*															*12.5*
	3 3/16	**P-B22451H**	**PE-B22451H**															43
	3 7/16	**P-B22455H**	**PE-B22455H**	3 3/4	10	13	4 3/8	3 7/16	7/8	2 1/4	7 1/2	7 1/2	5	15/16	1 5/8	2 21/32	3	42
	3 1/2	**P-B22456H**	**PE-B22456H**															41
80		*P-B224M80H*	*PE-B224M80H*	*95.25*	*254.0*	*330.2*	*111.12*	*87.3*	*24*	*57.2*	*190.5*	*190.5*	*127.0*	*23.8*	*41.3*	*67.5*	*76.2*	*19.6*
85		*P-B224M85H*	*PE-B224M85H*															*19.1*
	3 11/16	**P-B22459H**	**PE-B22459H**															61
	3 15/16	**P-B22463H**	**PE-B22463H**	4 1/4	11 3/4	15 1/4	5 1/16	4	1	2 5/8	8 1/2	8 1/2	5 29/32	1 1/16	2 1/4	3 1/16	3 7/16	59
	4	**P-B22464H**	**PE-B22464H**															59
90		*P-B224M90H*	*PE-B224M90H*	*107.95*	*298.4*	*387.4*	*128.59*	*101.6*	*24*	*66.7*	*215.9*	*215.9*	*150.0*	*27.0*	*57.2*	*77.8*	*87.3*	*28.7*
100		*P-B224M100H*	*PE-B224M100H*															*26.9*
	3 15/16	**PL-B22463H**	—	4 1/8	10 7/8	14 1/4	5 1/16	4	1	2 1/2	8 3/8	—	5 29/32	1 1/16	1 7/8	3 1/16	3 7/16	58
	4	PL-B22464H	—	*104.78*	*276.2*	*362.0*	*128.59*	*101.6*	*24*	*63.5*	*212.7*	—	*150.0*	*27.0*	*47.6*	*77.8*	*87.3*	*57*

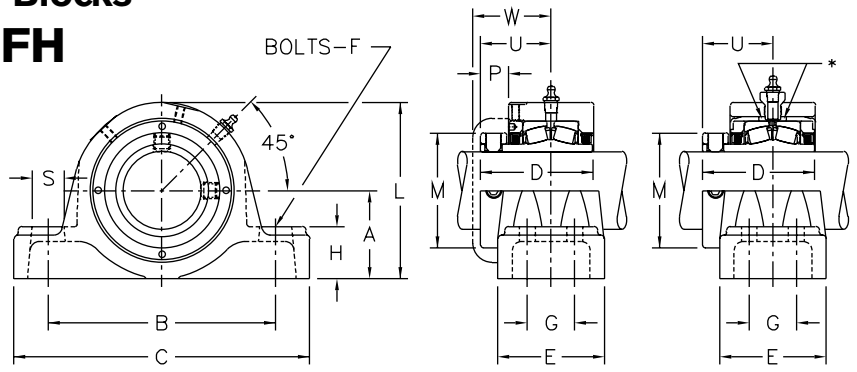
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
† Tolerance, ±.005" *(±0.13 mm)*.
■ Dimension H for PE-B22439H and PE-B22440H is 1 3/4"; Dimension H for PE-B22443H thru PE-B22448H is 2 1/4".

◆ Width dimension for closed end unit.
Selection guide, page D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Pillow Blocks

P-B22400FH, PE-B22400FH

Cast Iron Housing
4-bolt Base
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Fixed **Expansion**

Dimensions (inches/*mm*)

Shaft dia. mm	Shaft dia. inches	Pillow block number Fixed	Pillow block number Expansion	A †	B	C	D	E	F Bolts	G	H	L	M	P	S	U	W ◆	Unit wt. (lbs./kg.)
	1 15/16	**P-B22431FH**	**PE-B22431FH**	2 1/4	6 1/4	8 3/8	3 1/8	3 3/16	1/2	1 19/32	1 3/8	4 9/16	2 15/16	2 1/32	13/16	1 29/32	2 9/32	13
	2	**P-B22432FH**	**PE-B22432FH**															13
45		*P-B224M45FH*	*PE-B224M45FH*	*57.15*	*158.8*	*212.7*	*79.38*	*81.0*	*12*	*40.5*	*34.9*	*115.9*	*74.6*	*16.7*	*20.6*	*48.4*	*57.9*	*6.3*
50		*P-B224M50FH*	*PE-B224M50FH*															*5.9*
	2 3/16	**P-B22435FH**	**PE-B22435FH**	2 1/2	6 3/4	8 7/8	3 5/16	3 1/4	1/2	1 11/16	1 5/8	5	3 3/8	25/32	13/16	2 1/16	2 7/16	15
	2 1/4	**P-B22436FH**	**PE-B22436FH**															15
55		*P-B224M55FH*	*PE-B224M55FH*	*63.50*	*171.4*	*225.4*	*84.14*	*82.6*	*12*	*42.9*	*41.3*	*127.0*	*85.7*	*19.8*	*20.6*	*52.4*	*61.9*	*6.9*
	2 7/16	**P-B22439FH**	**PE-B22439FH**	2 3/4	7 1/8	9 1/4	3 1/2	3 3/8	1/2	1 3/4	1 3/4	5 1/2	3 5/8	27/32	13/16	2 3/16	2 9/16	19
	2 1/2	**P-B22440FH**	**PE-B22440FH**															19
60		*P-B224M60FH*	*PE-B224M60FH*	*69.85*	*181.0*	*235.0*	*88.90*	*85.7*	*12*	*44.4*	*44.4*	*139.7*	*92.1*	*21.4*	*20.6*	*55.6*	*65.1*	*8.6*
	2 11/16	**P-B22443FH**	**PE-B22443FH**	3 1/4	8 1/8	10 7/16	4	3 3/4	5/8	1 7/8	2 1/4	6 7/16	4 3/16	27/32	15/16	2 7/16	2 25/32	30
	2 3/4	**P-B22444FH**	PE-B22444FH															30
	2 15/16	**P-B22447FH**	**PE-B22447FH**															29
	3	**P-B22448FH**	**PE-B22448FH**															28
65		*P-B224M65FH*	*PE-B224M65FH*	*82.55*	*206.4*	*265.1*	*101.60*	*95.2*	*16*	*47.6*	*57.2*	*163.5*	*106.4*	*21.4*	*23.8*	*61.9*	*70.6*	*13.7*
70		*P-B224M70FH*	*PE-B224M70FH*															*13.5*
75		*P-B224M75FH*	*PE-B224M75FH*															*13.0*
	3 3/16	**P-B22451FH**	**PE-B22451FH**	3 3/4	10	13	4 3/8	4 1/8	3/4	2	2 1/4	7 1/2	5	15/16	1 1/2	2 21/32	3	45
	3 7/16	**P-B22455FH**	**PE-B22455FH**															43
	3 1/2	**P-B22456FH**	**PE-B22456FH**															43
80		*P-B224M80FH*	*PE-B224M80FH*	*95.25*	*254.0*	*330.2*	*111.12*	*104.8*	*20*	*50.8*	*57.2*	*190.5*	*127.0*	*23.8*	*38.1*	*67.5*	*76.2*	*20.5*
85		*P-B224M85FH*	*PE-B224M85FH*															*20.0*
	3 11/16	**P-B22459FH**	**PE-B22459FH**	4 1/4	12 1/2	15 1/4	5 1/16	4 1/2	3/4	2 1/4	2 5/8	8 1/2	5 29/32	1 1/16	1 1/4	3 1/16	3 7/16	69
	3 15/16	**P-B22463FH**	**PE-B22463FH**															67
	4	**P-B22464FH**	**PE-B22464FH**															66
90		*P-B224M90FH*	*PE-B224M90FH*	*107.95*	*317.5*	*387.4*	*128.59*	*114.3*	*20*	*57.2*	*66.7*	*215.9*	*150.0*	*27.0*	*31.8*	*77.8*	*87.3*	*32.1*
100		*P-B224M100FH*	*PE-B224M100FH*															*30.3*
	4 3/16	P-B22567FH○	PE-B22567FH○	4 3/4	13 1/2	16 1/2	6 3/4	4 3/4	3/4	2 1/2	2 3/4	9 3/8	6 1/8	1 1/8	1 3/8	3 3/8	3 3/4	92
	4 7/16	**P-B22571FH**○	**PE-B22571FH**○															88
	4 1/2	**P-B22572FH**○	**PE-B22572FH**○															87
110		*P-B225M110FH*○	*PE-B225M110FH*○	*120.65*	*342.9*	*419.1*	*171.45*	*120.6*	*20*	*63.5*	*69.8*	*238.1*	*155.6*	*28.6*	*34.9*	*85.7*	*95.2*	*40.7*
115		*P-B225M115FH*○	*PE-B225M115FH*○															*39.5*
	4 15/16	**P-B22579FH**○	**PE-B22579FH**○	5 1/2	15 1/2	18 1/2	7 1/4	5 3/8	7/8	2 3/4	3	10 7/8	6 7/8	1 7/32	1 1/2	3 5/8	4	129
	5	**P-B22580FH**○	**PE-B22580FH**○															128
125		*P-B225M125FH*○	*PE-B225M125FH*○	*139.70*	*393.7*	*469.9*	*184.15*	*136.5*	*24*	*69.8*	*76.2*	*276.2*	*174.6*	*31.0*	*38.1*	*92.1*	*101.6*	*58.1*

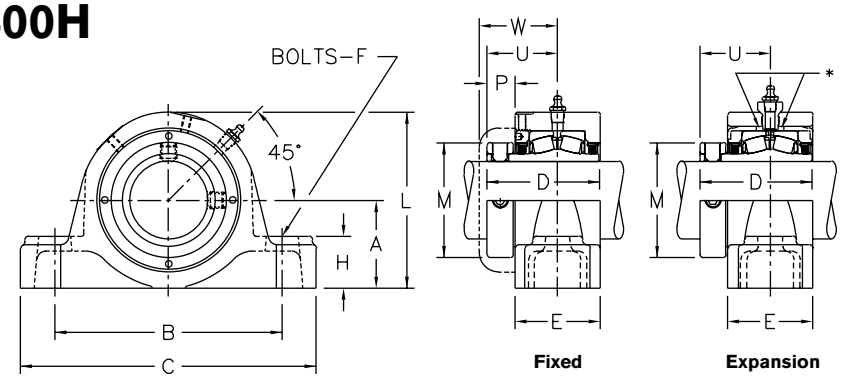
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62 through D-65.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, ±.005" *(±0.13 mm)*.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
○ Series P-B22500FH pillow blocks have two spring locking collars (bearing dimensions, page D-40, load ratings, pages D-33, D-34).
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Pillow Blocks

EP-B22400H, EPE-B22400H

Cast Iron Housing
2-Bolt Base
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed

Self-Aligning Type E Interchange



Dimensions (inches/*mm*)

Shaft dia.		Pillow block number		A	B		C	D	E	F	H	L	M	P	U	W	Unit wt.
mm	inches	Fixed	Expansion	†	min.	max.				Bolts						◆	(lbs./kg.)
	1 7/16	**EP-B22423H**	**EPE-B22423H**	1 7/8	4 3/4	6	7 3/8	2 7/8	2 1/4	1/2	1 1/8	3 7/8	2 1/2	21/32	1 25/32	2 3/16	8
35		*EP-B224M35H*	*EPE-B224M35H*	*47.62*	*120.6*	*152.4*	*187.3*	*73.02*	*57.2*	*12*	*28.6*	*98.4*	*63.5*	*16.7*	*45.2*	*55.6*	*3.1*
	1 1/2	**EP-B224B24H**	EPE-B224B24H														12
	1 5/8	**EP-B22426H**	EPE-B22426H	2 1/8	5 1/4	6 1/2	7 7/8	3 1/8	2 1/2	1/2	1 1/4	4 3/8	2 3/4	21/32	1 29/32	2 1/4	11
	1 11/16	**EP-B22427H**	**EPE-B22427H**														11
40		*EP-B224M40H*	*EPE-B224M40H*	*53.98*	*133.4*	*165.1*	*200.0*	*79.38*	*63.5*	*12*	*31.8*	*111.1*	*69.8*	*16.7*	*48.4*	*57.2*	*5.4*
	1 3/4	**EP-B224B28H**	EPE-B224B28H														12
	1 15/16	**EP-B22431H**	**EPE-B22431H**	2 1/4	6 1/16	7 1/4	8 7/8	3 1/8	2 1/2	5/8	1 5/16	4 9/16	2 15/16	21/32	1 29/32	2 9/32	12
	2	**EP-B22432H**	**EPE-B22432H**														12
45		*EP-B224M45H*	*EPE-B224M45H*	*57.15*	*154.0*	*184.2*	*225.4*	*79.38*	*63.5*	*16*	*33.3*	*115.9*	*74.6*	*16.7*	*48.4*	*57.9*	*5.5*
50		*EP-B224M50H*	*EPE-B224M50H*														*5.2*
	2 3/16	**EP-B22435H**	**EPE-B22435H**	2 1/2	6 9/16	8	9 5/8	3 5/16	2 9/16	5/8	1 1/2	5	3 3/8	25/32	2 1/16	2 7/16	15
55		*EP-B224M55H*	*EPE-B224M55H*	*63.50*	*166.7*	*203.2*	*244.5*	*84.14*	*65.1*	*16*	*38.1*	*127.0*	*85.7*	*19.8*	*52.4*	*61.9*	*6.6*
	2 1/4	**EP-B224B36H**	EPE-B224B36H														18
	2 7/16	**EP-B22439H**	**EPE-B22439H**	2 3/4	6 15/16	8 3/4	10 1/2	3 1/2	2 11/16	5/8	1 5/8	5 1/2	3 5/8	27/32	2 3/16	2 9/16	17
	2 1/2	**EP-B22440H**	EPE-B22440H														17
60		*EP-B224M60H*	*EPE-B224M60H*	*69.85*	*176.2*	*222.2*	*266.7*	*88.90*	*68.3*	*16*	*41.3*	*139.7*	*92.1*	*21.4*	*55.6*	*65.1*	*8.2*
	2 11/16	**EP-B22443H**	**EPE-B22443H**														29
	2 3/4	EP-B22444H	EPE-B22444H														29
	2 15/16	**EP-B22447H**	**EPE-B22447H**	3 1/8	7 13/16	9 3/4	11 13/16	4	3 3/16	3/4	1 7/8	6 5/16	4 3/16	27/32	2 7/16	2 25/32	27
	3	**EP-B22448H**	**EPE-B22448H**														27
65		*EP-B224M65H*	*EPE-B224M65H*														*13.5*
70		*EP-B224M70H*	*EPE-B224M70H*	*79.38*	*198.4*	*247.6*	*300.0*	*101.60*	*81.0*	*20*	*47.6*	*160.3*	*106.4*	*21.4*	*61.9*	*70.6*	*13.3*
75		*EP-B224M75H*	*EPE-B224M75H*														*12.8*
	3 3/16	**EP-B22451H**	EPE-B22451H														44
	3 7/16	**EP-B22455H**	**EPE-B22455H**	3 3/4	9 5/16	11 5/16	13 13/16	4 3/8	3 1/2	7/8	2 1/4	7 1/2	5	15/16	2 21/32	3	43
	3 1/2	**EP-B22456H**	EPE-B22456H														42
80		*EP-B224M80H*	*EPE-B224M80H*	*95.25*	*236.5*	*287.3*	*350.8*	*111.12*	*88.9*	*24*	*57.2*	*190.5*	*127.0*	*23.8*	*67.5*	*76.2*	*20.0*
85		*EP-B224M85H*	*EPE-B224M85H*														*19.5*

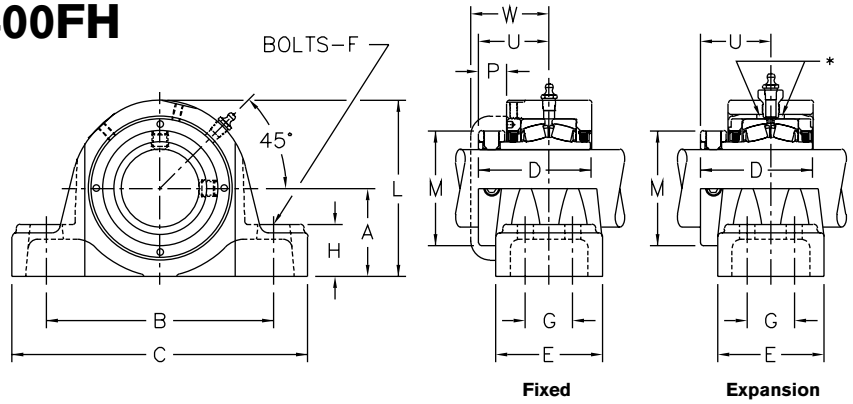
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
† Tolerance, ±.005" *(±0.13 mm)*.
◆Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Pillow Blocks

EP-B22400FH, EPE-B22400FH

Cast Iron Housing
4-Bolt Base
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed

Self-Aligning Type E Interchange



Dimensions (inches/*mm*)

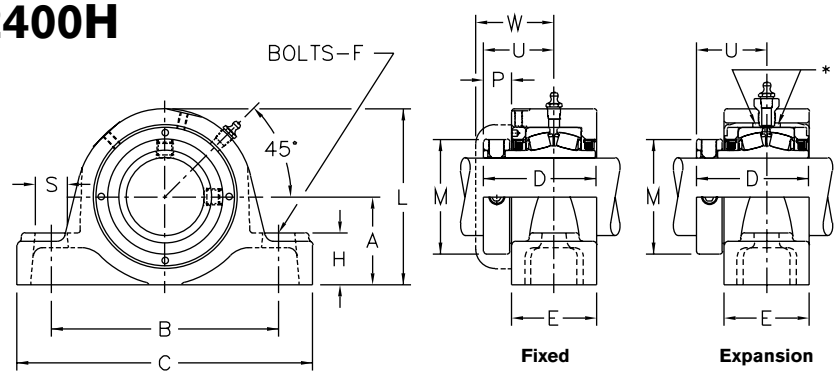
Shaft dia. *mm*	Shaft dia. inches	Pillow block number Fixed	Pillow block number Expansion	A †	B min.	B max.	C	D	E	F Bolts	G	H	L	M	P	U	W ◆	Unit wt. (lbs./kg.)
	2 1/4	EP-B224B36FH	EPE-B224B36FH															21
	2 7/16	**EP-B22439FH**	EPE-B22439FH	2 3/4	6 15/16	8 3/4	10 1/2	3 1/2	3 5/8	5/8	1 7/8	1 5/8	5 1/2	3 5/8	27/32	2 3/16	2 9/16	20
	2 1/2	**EP-B22440FH**	EPE-B22440FH															20
60		*EP-B224M60FH*	*EPE-B224M60FH*	*69.85*	*176.2*	*222.2*	*266.7*	*88.90*	*92.1*	*16*	*47.6*	*41.3*	*139.7*	*92.1*	*21.4*	*55.6*	*65.1*	*8.8*
	2 11/16	**EP-B22443FH**	EPE-B22443FH															31
	2 3/4	EP-B22444FH	EPE-B22444FH															31
	2 15/16	**EP-B22447FH**	**EPE-B22447FH**	3 1/8	7 13/16	9 7/8	11 13/16	4	4 1/4	5/8	2 1/8	1 7/8	6 5/16	4 3/16	27/32	2 7/16	2 25/32	29
	3	**EP-B22448FH**	EPE-B22448FH															29
65		*EP-B224M65FH*	*EPE-B224M65FH*															*14.0*
70		*EP-B224M70FH*	*EPE-B224M70FH*	*79.38*	*198.4*	*250.8*	*300.0*	*101.60*	*108.0*	*16*	*54.0*	*47.6*	*160.3*	*106.4*	*21.4*	*61.9*	*70.6*	*13.8*
75		*EP-B224M75FH*	*EPE-B224M75FH*															*13.3*
	3 3/16	EP-B22451FH	EPE-B22451FH															47
	3 7/16	**EP-B22455FH**	**EPE-B22455FH**	3 3/4	9 5/16	11 5/16	13 13/16	4 3/8	4 3/4	3/4	2 3/8	2 1/4	7 1/2	5	15/16	2 21/32	3	46
	3 1/2	**EP-B22456FH**	EPE-B22456FH															45
80		*EP-B224M80FH*	*EPE-B224M80FH*	*95.25*	*236.5*	*290.5*	*350.8*	*111.12*	*120.6*	*20*	*60.3*	*57.2*	*190.5*	*127.0*	*23.8*	*67.5*	*76.2*	*21.3*
85		*EP-B224M85FH*	*EPE-B224M85FH*															*20.8*
	3 11/16	**P-B22459FH**	**PE-B22459FH**															69
	3 15/16	**P-B22463FH**	**PE-B22463FH**	4 1/4	11 7/8	13	15 1/4	5 1/16	4 1/2	3/4	2 1/4	2 5/8	8 1/2	5 29/32	1 1/16	3 1/16	3 7/16	67
	4	**P-B22464FH**	**PE-B22464FH**															66
90		*P-B224M90FH*	*PE-B224M90FH*	*107.95*	*301.6*	*330.2*	*387.4*	*128.59*	*114.3*	*20*	*57.2*	*66.7*	*215.9*	*150.0*	*27.0*	*77.8*	*87.3*	*32.1*
100		*P-B224M100FH*	*PE-B224M100FH*															*30.3*
	4 3/16	P-B22567FH○	PE-B22567FH○															92
	4 7/16	**P-B22571FH**○	**PE-B22571FH**○	4 3/4	12 3/4	14 1/8	16 1/2	6 3/4	4 3/4	3/4	2 1/2	2 3/4	9 3/8	6 1/8	1 1/8	3 3/8	3 3/4	88
	4 1/2	**P-B22572FH**○	PE-B22572FH○															87
110		*P-B225M110FH*○	*PE-B225M110FH*○	*120.65*	*323.8*	*358.8*	*419.1*	*171.45*	*120.6*	*20*	*63.5*	*69.8*	*238.1*	*155.6*	*28.6*	*85.7*	*95.2*	*40.7*
115		*P-B225M115FH*○	*PE-B225M115FH*○															*39.5*
	4 15/16	**P-B22579FH**○	**PE-B22579FH**○	5 1/2	14 5/16	16 1/8	18 1/2	7 1/4	5 3/8	7/8	2 3/4	3	10 7/8	6 7/8	1 7/32	3 5/8	4	129
	5	**P-B22580FH**○	**PE-B22580FH**○															128
125		*P-B225M125FH*○	*PE-B225M125FH*○	*139.70*	*363.5*	*409.6*	*469.9*	*184.15*	*136.5*	*24*	*69.8*	*76.2*	*276.2*	*174.6*	*31.0*	*92.1*	*101.6*	*58.1*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62 through D-65.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
† Tolerance, ±.005" *(±0.13 mm)*.
○ Series P-B22500FH pillow blocks have two spring locking collars (bearing dimensions, page D-40, load ratings, pages D-33, D-34).
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Pillow Blocks

PK-B22400H, PKE-B22400H

Cast Steel Housing
2-Bolt Base
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

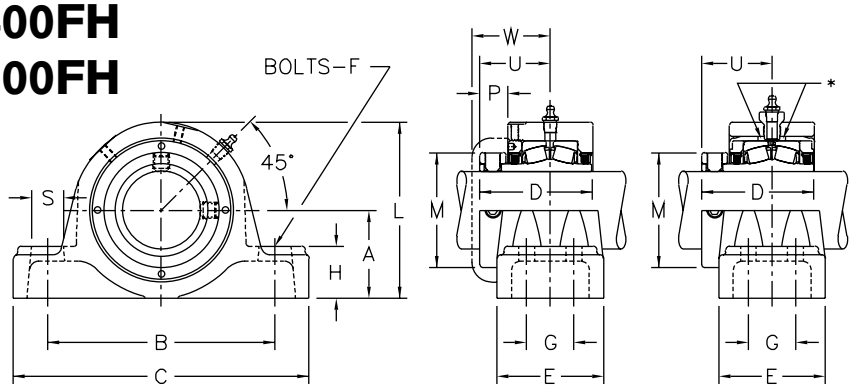
Shaft dia. mm	Shaft dia. inches	Pillow block number Fixed	Pillow block number Expansion	A †	B	C	D	E	F Bolts	H	L Fixed	L Expansion	M	P	S	U	W ◆	Unit wt. (lbs./kg.)
	1 3/16	**PK-B22419H**	. . .	1 3/4	4 3/4	6 5/16	2 11/16	2 3/16	3/8	1 1/16	3 1/2	3 5/8	2 3/16	17/32	5/8	1 5/8	1 31/32	7
	1 1/4	**PK-B22420H**	. . .															7
30		*PK-B224M30H*	. . .	*44.45*	*120.6*	*160.3*	*68.26*	*55.6*	*10*	*27.0*	*88.9*	*92.1*	*55.6*	*13.5*	*15.9*	*41.3*	*50.0*	*3.2*
	1 7/16	**PK-B22423H**	**PKE-B22423H**	1 7/8	5	6 7/8	2 7/8	2 1/4	1/2	1 3/16	3 11/16	3 7/8	2 1/2	21/32	13/16	1 25/32	2 3/16	7
	1 1/2	**PK-B22424H**	**PKE-B22424H**															7
35		*PK-B224M35H*	*PKE-B224M35H*	*47.62*	*127.0*	*174.6*	*73.02*	*57.2*	*12*	*30.2*	*93.7*	*98.4*	*63.5*	*16.7*	*20.6*	*45.2*	*55.6*	*3.4*
	1 5/8	**PK-B22426H**	**PKE-B22426H**															10
	1 11/16	**PK-B22427H**	**PKE-B22427H**	2 1/8	5 1/2	7 3/8	3 1/8	2 1/2	1/2	1 5/16	4 1/4	4 3/8	2 3/4	21/32	13/16	1 29/32	2 1/4	10
	1 3/4	**PK-B22428H**	**PKE-B22428H**															10
40		*PK-B224M40H*	*PKE-B224M40H*	*53.98*	*139.7*	*187.3*	*79.38*	*63.5*	*12*	*33.3*	*108.0*	*111.1*	*69.8*	*16.7*	*20.6*	*48.4*	*57.2*	*4.8*
	1 15/16	**PK-B22431H**	**PKE-B22431H**	2 1/4	6 1/4	8 3/8	3 1/8	2 1/2	5/8	1 3/8	4 9/16	4 9/16	2 15/16	21/32	15/16	1 29/32	2 9/32	12
	2	**PK-B22432H**	**PKE-B22432H**															12
45		*PK-B224M45H*	*PKE-B224M45H*	*57.15*	*158.8*	*212.7*	*79.38*	*63.5*	*16*	*34.9*	*115.9*	*115.9*	*74.6*	*16.7*	*23.8*	*48.4*	*57.9*	*5.8*
50		*PK-B224M50H*	*PKE-B224M50H*															*5.5*
	2 3/16	**PK-B22435H**	**PKE-B22435H**	2 1/2	6 3/4	8 7/8	3 5/16	2 9/16	5/8	1 5/8	5	5	3 3/8	25/32	15/16	2 1/16	2 7/16	16
	2 1/4	**PK-B22436H**	**PKE-B22436H**															16
55		*PK-B224M55H*	*PKE-B224M55H*	*63.50*	*171.4*	*225.4*	*84.14*	*65.1*	*16*	*41.3*	*127.0*	*127.0*	*85.7*	*19.8*	*23.8*	*52.4*	*61.9*	*7.1*
	2 7/16	**PK-B22439H**	**PKE-B22439H**	2 3/4	7 1/8	9 1/4	3 1/2	2 11/16	5/8	1 3/4	5 1/2	5 1/2	3 5/8	27/32	15/16	2 3/16	2 9/16	19
	2 1/2	**PK-B22440H**	**PKE-B22440H**															18
60		*PK-B224M60H*	*PKE-B224M60H*	*69.85*	*181.0*	*235.0*	*88.90*	*68.3*	*16*	*44.4*	*139.7*	*139.7*	*92.1*	*21.4*	*23.8*	*55.6*	*65.1*	*8.6*
	2 11/16	**PK-B22443H**	**PKE-B22443H**	3 1/4	8 1/8	10 7/16	4	3 3/16	3/4	2 1/4	6 7/16	6 7/16	4 3/16	27/32	1 1/16	2 7/16	2 25/32	30
	2 3/4	PK-B22444H	PKE-B22444H															30
	2 15/16	**PK-B22447H**	**PKE-B22447H**															29
	3	**PK-B22448H**	**PKE-B22448H**															28
65		*PK-B224M65H*	*PKE-B224M65H*															*13.7*
70		*PK-B224M70H*	*PKE-B224M70H*	*82.55*	*206.4*	*265.1*	*101.60*	*81.0*	*20*	*57.2*	*163.5*	*163.5*	*106.4*	*21.4*	*27.0*	*61.9*	*70.6*	*13.5*
75		*PK-B224M75H*	*PKE-B224M75H*															*13.0*
	3 3/16	**PK-B22451H**	PKE-B22451H															45
	3 7/16	**PK-B22455H**	**PKE-B22455H**	3 3/4	10	13	4 3/8	3 7/16	7/8	2 1/4	7 1/2	7 1/2	5	15/16	1 5/8	2 21/32	3	43
	3 1/2	**PK-B22456H**	**PKE-B22456H**															43
80		*PK-B224M80H*	*PKE-B224M80H*	*95.25*	*254.0*	*330.2*	*111.12*	*87.3*	*24*	*57.2*	*190.5*	*190.5*	*127.0*	*23.8*	*41.3*	*67.5*	*76.2*	*20.2*
85		*PK-B224M85H*	*PKE-B224M85H*															*19.7*
	3 11/16	**PK-B22459H**	PKE-B22459H															64
	3 15/16	**PK-B22463H**	**PKE-B22463H**	4 1/4	11 3/4	15 1/4	5 1/16	4	1	2 5/8	8 1/2	8 1/2	5 29/32	1 1/16	2 1/4	3 1/16	3 7/16	62
	4	**PK-B22464H**	**PKE-B22464H**															62
90		*PK-B224M90H*	*PKE-B224M90H*	*107.95*	*298.4*	*387.4*	*128.59*	*101.6*	*24*	*66.7*	*215.9*	*215.9*	*150.0*	*27.0*	*57.2*	*77.8*	*87.3*	*29.9*
100		*PK-B224M100H*	*PKE-B224M100H*															*28.1*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, ±.005" *(±0.13 mm)*.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Pillow Blocks

PK-B22400FH, PKE-B22400FH
PK-B22500FH, PKE-B22500FH

Cast Steel Housing
4-Bolt Base
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Fixed **Expansion**

Dimensions (inches/*mm*)

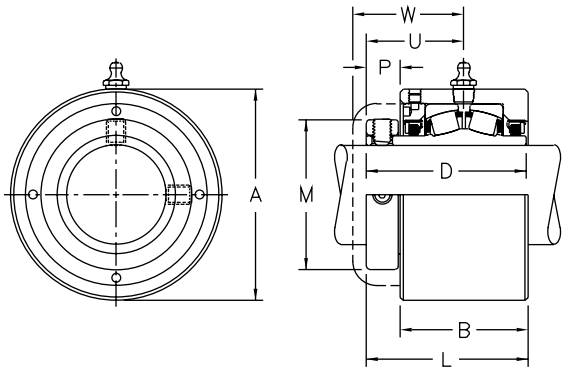
Shaft dia. *mm*	Shaft dia. inches	Pillow block number Fixed	Pillow block number Expansion	A †	B	C	D	E	F Bolts	G	H	L	M	P	S	U	W ◆	Unit wt. (lbs./kg.)
	1 15/16	**PK-B22431FH**	**PKE-B22431FH**	2 1/4	6 1/4	8 3/8	3 1/8	3 3/16	1/2	1 19/32	1 3/8	4 9/16	2 15/16	21/32	13/16	1 29/32	2 9/32	13
	2	**PK-B22432FH**	**PKE-B22432FH**															13
45		*PK-B224M45FH*	*PKE-B224M45FH*	*57.15*	*158.8*	*212.7*	*79.38*	*81.0*	*12*	*40.5*	*34.9*	*115.9*	*74.6*	*16.7*	*20.6*	*48.4*	*57.9*	*6.1*
50		*PK-B224M50FH*	*PKE-B224M50FH*															*5.8*
	2 3/16	**PK-B22435FH**	**PKE-B22435FH**	2 1/2	6 3/4	8 7/8	3 5/16	3 1/4	1/2	1 11/16	1 5/8	5	3 3/8	25/32	13/16	2 1/16	2 7/16	16
	2 1/4	**PK-B22436FH**	**PKE-B22436FH**															16
55		*PK-B224M55FH*	*PKE-B224M55FH*	*63.50*	*171.4*	*225.4*	*84.14*	*82.6*	*12*	*42.9*	*41.3*	*127.0*	*85.7*	*19.8*	*20.6*	*52.4*	*61.9*	*7.3*
	2 7/16	**PK-B22439FH**	**PKE-B22439FH**	2 3/4	7 1/8	9 1/4	3 1/2	3 3/8	1/2	1 3/4	1 3/4	5 1/2	3 5/8	27/32	13/16	2 3/16	2 9/16	20
	2 1/2	**PK-B22440FH**	**PKE-B22440FH**															20
60		*PK-B224M60FH*	*PKE-B224M60FH*	*69.85*	*181.0*	*235.0*	*88.90*	*85.7*	*12*	*44.4*	*44.4*	*139.7*	*92.1*	*21.4*	*20.6*	*55.6*	*65.1*	*9.3*
	2 11/16	**PK-B22443FH**	PKE-B22443FH	3 1/4	8 1/8	10 7/16	4	3 3/4	5/8	1 7/8	2 1/4	6 7/16	4 3/16	27/32	15/16	2 7/16	2 25/32	30
	2 3/4	PK-B22444FH	PKE-B22444FH															30
	2 15/16	**PK-B22447FH**	**PKE-B22447FH**															29
	3	**PK-B22448FH**	**PKE-B22448FH**															28
65		*PK-B224M65FH*	*PKE-B224M65FH*															*13.7*
70		*PK-B224M70FH*	*PKE-B224M70FH*	*82.55*	*206.4*	*265.1*	*101.60*	*95.2*	*16*	*47.6*	*57.2*	*163.5*	*106.4*	*21.4*	*23.8*	*61.9*	*70.6*	*13.5*
75		*PK-B224M75FH*	*PKE-B224M75FH*															*13.0*
	3 3/16	PK-B22451FH	PKE-B22451FH	3 3/4	10	13	4 3/8	4 1/8	3/4	2	2 1/4	7 1/2	5	15/16	1 1/2	2 21/32	3	49
	3 7/16	**PK-B22455FH**	**PKE-B22455FH**															47
	3 1/2	**PK-B22456FH**	**PKE-B22456FH**															47
80		*PK-B224M80FH*	*PKE-B224M80FH*	*95.25*	*254.0*	*330.2*	*111.12*	*104.8*	*20*	*50.8*	*57.2*	*190.5*	*127.0*	*23.8*	*38.1*	*67.5*	*76.2*	*22.0*
85		*PK-B224M85FH*	*PKE-B224M85FH*															*21.5*
	3 11/16	**PK-B22459FH**	**PKE-B22459FH**	4 1/4	12 1/2	15 1/4	5 1/16	4 1/2	3/4	2 1/4	2 5/8	8 1/2	5 29/32	1 1/16	1 1/4	3 1/16	3 7/16	76
	3 15/16	**PK-B22463FH**	**PKE-B22463FH**															74
	4	**PK-B22464FH**	**PKE-B22464FH**															73
90		*PK-B224M90FH*	*PKE-B224M90FH*	*107.95*	*317.5*	*387.4*	*128.59*	*114.3*	*20*	*57.2*	*66.7*	*215.9*	*150.0*	*27.0*	*31.8*	*77.8*	*87.3*	*35.2*
100		*PK-B224M100FH*	*PKE-B224M100FH*															*33.5*
	4 3/16	PK-B22567FH○	PKE-B22567FH○	4 3/4	13 1/2	16 1/2	6 3/4	4 3/4	3/4	2 1/2	2 3/4	9 3/8	6 1/8	1 1/8	1 3/8	3 3/8	3 3/4	97
	4 7/16	**PK-B22571FH**○	PKE-B22571FH○															93
	4 1/2	**PK-B22572FH**○	PKE-B22572FH○															92
110		*PK-B225M110FH*○	*PKE-B225M110FH*○	*120.65*	*342.9*	*419.1*	*171.45*	*120.6*	*20*	*63.5*	*69.8*	*238.1*	*155.6*	*28.6*	*34.9*	*85.7*	*95.2*	*43.0*
115		*PK-B225M115FH*○	*PKE-B225M115FH*○															*41.7*
	4 15/16	**PK-B22579FH**○	PKE-B22579FH○	5 1/2	15 1/2	18 1/2	7 1/4	5 3/8	7/8	2 3/4	3	10 7/8	6 7/8	1 7/32	1 1/2	3 5/8	4	125
	5	**PK-B22580FH**○	PKE-B22580FH○															124
125		*PK-B225M125FH*○	*PKE-B225M125FH*○	*139.70*	*393.7*	*469.9*	*184.15*	*136.5*	*24*	*69.8*	*76.2*	*276.2*	*174.6*	*31.0*	*38.1*	*92.1*	*101.6*	*56.6*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62 through D-65.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, ±.005" *(±0.13 mm)*.
○ Series P-B22500FH pillow blocks have two spring locking collars (bearing dimensions, page D-40, load ratings, pages D-33, D-34).
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Cartridge Units

C-B22400H

Cast Iron Housing
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

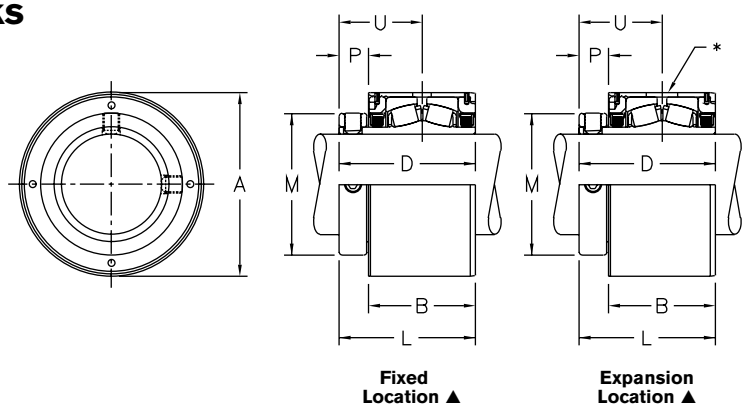
Shaft dia. mm	Shaft dia. inches	Cartridge unit number	A †	B	D	L	M	P	U	W ◆	Unit wt. (lbs./kg.)
	1	**C-B22416H**	3.000	2 1/16	2 9/16	2 19/32	2	17/32	1 9/16	1 29/32	3
25		*C-B224M25H*	*76.20*	*52.39*	*65.09*	*65.9*	*50.8*	*13.5*	*39.7*	*48.4*	*1.4*
	1 3/16	**C-B22419H**	3.219	2 3/16	2 11/16	2 23/32	2 3/16	17/32	1 5/8	1 31/32	4
	1 1/4	**C-B22420H**									4
30		*C-B224M30H*	*81.76*	*55.56*	*68.26*	*69.0*	*55.6*	*13.5*	*41.3*	*50.0*	*1.7*
	1 7/16	**C-B22423H**	3.437	2 1/4	2 7/8	2 29/32	2 1/2	21/32	1 25/32	2 3/16	4
	1 1/2	**C-B22424H**									4
35		*C-B224M35H*	*87.30*	*57.15*	*73.02*	*73.8*	*63.5*	*16.7*	*45.2*	*55.6*	*2.1*
	1 5/8	**C-B22426H**									6
	1 11/16	**C-B22427H**	3.937	2 1/2	3 1/8	3 5/32	2 3/4	21/32	1 29/32	2 1/4	6
	1 3/4	**C-B22428H**									6
40		*C-B224M40H*	*100.00*	*63.50*	*79.38*	*80.2*	*69.8*	*16.7*	*48.4*	*57.2*	*2.9*
	1 15/16	**C-B22431H**	4.125	2 1/2	3 1/8	3 5/32	2 15/16	21/32	1 29/32	2 9/32	6
	2	**C-B22432H**									6
45		*C-B224M45H*	*104.78*	*63.50*	*79.38*	*80.2*	*74.6*	*16.7*	*48.4*	*57.9*	*3.1*
50		*C-B224M50H*									*3.0*
	2 3/16	**C-B22435H**	4.531	2 9/16	3 5/16	3 11/32	3 3/8	25/32	2 1/16	2 7/16	8
	2 1/4	**C-B22436H**									8
55		*C-B224M55H*	*115.09*	*65.09*	*84.14*	*84.9*	*85.7*	*19.8*	*52.4*	*61.9*	*3.8*
	2 7/16	**C-B22439H**	5.000	2 11/16	3 1/2	3 17/32	3 5/8	27/32	2 3/16	2 9/16	10
	2 1/2	**C-B22440H**									10
60		*C-B224M60H*	*127.00*	*68.26*	*88.90*	*89.7*	*92.1*	*21.4*	*55.6*	*65.1*	*4.8*
	2 11/16	**C-B22443H**	5.875	3 3/16	4	4 1/32	4 3/16	27/32	2 7/16	2 25/32	18
	2 3/4	C-B22444H									17
	2 15/16	**C-B22447H**									16
	3	**C-B22448H**									16
65		*C-B224M65H*									*8.1*
70		*C-B224M70H*	*149.22*	*80.96*	*101.60*	*102.4*	*106.4*	*21.4*	*61.9*	*70.6*	*8.0*
75		*C-B224M75H*									*7.8*
	3 3/16	**C-B22451H**	6.750	3 7/16	4 3/8	4 3/8	5	15/16	2 21/32	3	25
	3 7/16	**C-B22455H**									23
	3 1/2	**C-B22456H**									23
80		*C-B224M80H*	*171.45*	*87.31*	*111.12*	*111.1*	*127.0*	*23.8*	*67.5*	*76.2*	*11.2*
85		*C-B224M85H*									*11.0*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, +.000" –.002" *(+0.00 mm –0.05 mm)*; bore tolerance for mounting +.002" –.000" *(+0.05 mm –0.00 mm)*.
◆Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Pillow Blocks

CSE-B22400H

Steel Housing
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

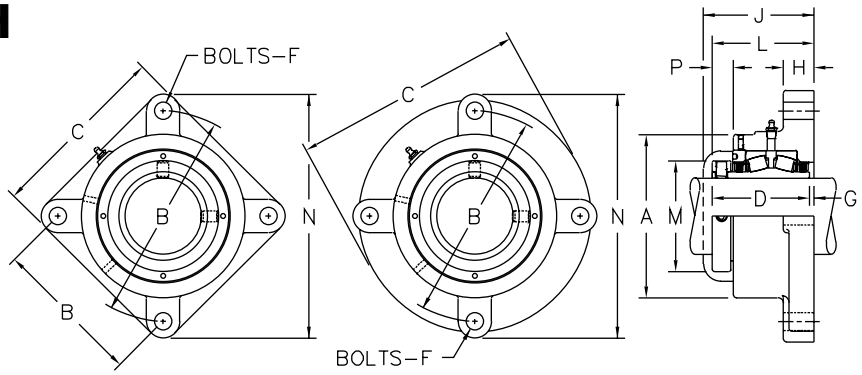
Shaft dia. mm	Shaft dia. inches	Cartridge unit number ▲	A †	B	D	L	M	P	U	Unit wt. (lbs./kg.)
	1	**CSE-B22416H**	2.665	2	2 9/16	2 9/16	2	9/16	1 9/16	3
25		*CSE-B224M25H*	*67.69*	*50.80*	*65.09*	*65.1*	*50.8*	*14.3*	*39.7*	*1.3*
	1 3/16	**CSE-B22419H**	2.915	2 1/8	2 11/16	2 11/16	2 3/16	9/16	1 5/8	4
	1 1/4	**CSE-B22420H**								4
30		*CSE-B224M30H*	*74.04*	*53.98*	*68.26*	*68.3*	*55.6*	*14.3*	*41.3*	*1.7*
	1 7/16	**CSE-B22423H**	3.124	2 3/16	2 7/8	2 7/8	2 1/2	11/16	1 25/32	4
	1 1/2	**CSE-B22424H**								4
35		*CSE-B224M35H*	*79.35*	*55.56*	*73.02*	*73.0*	*63.5*	*17.5*	*45.2*	*1.8*
	1 5/8	**CSE-B22426H**	3.636	2 7/16	3 1/8	3 1/8	2 3/4	11/16	1 29/32	6
	1 11/16	**CSE-B22427H**								5
	1 3/4	**CSE-B22428H**								5
40		*CSE-B224M40H*	*92.35*	*61.91*	*79.38*	*79.4*	*69.8*	*17.5*	*48.4*	*2.5*
	1 15/16	**CSE-B22431H**	3.833	2 25/64	3 1/8	3 1/8	2 15/16	11/16	1 29/32	6
	2	**CSE-B22432H**								5
45		*CSE-B224M45H*	*97.36*	*60.72*	*79.38*	*79.4*	*74.6*	*17.5*	*48.4*	*2.6*
50		*CSE-B224M50H*								*2.3*
	2 3/16	**CSE-B22435H**	4.227	2 1/2	3 5/16	3 5/16	3 3/8	13/16	2 1/16	7
	2 1/4	**CSE-B22436H**								7
55		*CSE-B224M55H*	*107.36*	*63.50*	*84.14*	*84.1*	*85.7*	*20.6*	*52.4*	*3.2*
	2 7/16	**CSE-B22439H**	4.621	2 5/8	3 1/2	3 1/2	3 5/8	7/8	2 3/16	8
	2 1/2	**CSE-B22440H**								8
60		*CSE-B224M60H*	*117.37*	*66.68*	*88.90*	*88.9*	*92.1*	*22.2*	*55.6*	*3.9*
	2 11/16	**CSE-B22443H**	5.407	3 1/8	4	4	4 3/16	7/8	2 7/16	14
	2 3/4	**CSE-B22444H**								14
	2 15/16	**CSE-B22447H**								13
	3	**CSE-B22448H**								13
65		*CSE-B224M65H*	*137.34*	*79.38*	*101.60*	*101.6*	*106.4*	*22.2*	*61.9*	*6.6*
70		*CSE-B224M70H*								*6.4*
75		*CSE-B224M75H*								*5.9*
	3 3/16	**CSE-B22451H**	6.194	3 7/16	4 3/8	4 3/8	5	15/16	2 21/32	20
	3 7/16	**CSE-B22455H**								18
	3 1/2	**CSE-B22456H**								18
80		*CSE-B224M80H*	*157.33*	*87.31*	*111.12*	*111.1*	*127.0*	*23.8*	*67.5*	*9.0*
85		*CSE-B224M85H*								*8.6*
	3 11/16	CSE-B22459H	7.375	4	5 1/16	5 1/16	5 29/32	1 1/16	3 1/16	33
	3 15/16	**CSE-B22463H**								31
	4	CSE-B22464H								31
90		*CSE-B224M90H*	*187.32*	*101.60*	*128.59*	*128.6*	*150.0*	*27.0*	*77.8*	*15.9*
100		*CSE-B224M100H*								*14.1*

Bold face items are normally available from stock; please consult for availability of non-stock items.
Steel cartridge units cannot be disassembled. For replacement, use entire new unit.
For 4 3/16" through 5" *(110 mm through 125 mm)* CSE-B22500, see page D-39.
All units available with type E lip seals.
† Tolerance, +.000" –.002" (+*0.00 mm −0.05 mm)*; bore tolerance for mounting +.002" –.000" (+*0.05 mm −0.00 mm)*.
* Plug diameter .531" *(13.49 mm)*, engagement depth .125" ±.015" *(3.18 ±0.38 mm)*, allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position on expansion units.
▲ Hole for fixed location and slot for expansion location in the same housing.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Flanged Units

F-B22400H, FE-B22400H

Cast Iron Housing
3-bolt or 4-bolt Mounting
Fixed or Expansion
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

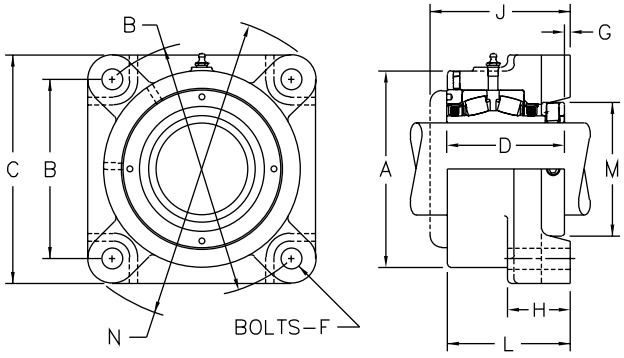
Type of Housing	Shaft dia. mm	Shaft dia. inches	Flanged unit number Fixed	Flanged unit number Expansion	A Fixed	A Exp	B Circle	B Square	C ▲	D	F Bolts	G ●	H	J ◆	L ●	M	N	P ●	Unit wt. (lbs./kg.)
3-BOLT ROUND		1	**F-B22416H**	FE-B22416H	2 7/8	3 1/4	4 1/8	. . .	4 3/4	2 9/16	3/8	1/32	9/16	2 15/16	2 19/32	2	5 1/8	17/32	3
	25		*F-B224M25H*	*FE-B224M25H*	*73.0*	*82.6*	*104.78*	*. . .*	*120.6*	*65.09*	*10*	*0.8*	*14.3*	*74.6*	*65.9*	*50.8*	*130.2*	*13.5*	*1.3*
		1 3/16	**F-B22419H**	**FE-B22419H**	3 1/8	3 1/2	4 1/2	. . .	5 1/8	2 11/16	3/8	1/32	19/32	3 1/16	2 23/32	2 3/16	5 1/2	17/32	6
		1 1/4	**F-B22420H**	**FE-B22420H**															6
	30		*F-B224M30H*	*FE-B224M30H*	*79.4*	*88.9*	*114.30*	*. . .*	*130.2*	*68.26*	*10*	*0.8*	*15.1*	*77.8*	*69.0*	*55.6*	*139.7*	*13.5*	*2.4*
		1 7/16	**F-B22423H**	**FE-B22423H**	3 7/16	3 3/4	5	. . .	5 7/8	2 7/8	1/2	1/32	5/8	3 5/16	2 29/32	2 1/2	6 1/4	21/32	7
		1 1/2	**F-B22424H**	**FE-B22424H**															7
	35		*F-B224M35H*	*FE-B224M35H*	*87.3*	*95.2*	*127.00*	*. . .*	*149.2*	*73.02*	*12*	*0.8*	*15.9*	*84.1*	*73.8*	*63.5*	*158.8*	*16.7*	*3.2*
4-BOLT ROUND		1 5/8	**F-B22426H**	**FE-B22426H**	3 15/16	4 1/4	5 1/2	3 57/64	6 3/8	3 1/8	1/2	1/32	5/8	3 1/2	3 5/32	2 3/4	6 3/4	21/32	9
		1 11/16	**F-B22427H**	**FE-B22427H**															9
		1 3/4	**F-B22428H**	**FE-B22428H**															9
	40		*F-B224M40H*	*FE-B224M40H*	*100.0*	*108.0*	*139.70*	*98.83*	*161.9*	*79.38*	*12*	*0.8*	*15.9*	*88.9*	*80.2*	*69.8*	*171.4*	*16.7*	*4.3*
		1 15/16	**F-B22431H**	**FE-B22431H**	4 1/4	4 1/2	5 3/4	4 1/16	6 11/16	3 1/8	1/2	1/16	11/16	3 9/16	3 3/16	2 15/16	7	21/32	10
		2	**F-B22432H**	**FE-B22432H**															10
	45		*F-B224M45H*	*FE-B224M45H*	*108.0*	*114.3*	*146.05*	*103.17*	*169.9*	*79.38*	*12*	*1.6*	*17.5*	*90.5*	*81.0*	*74.6*	*177.8*	*16.7*	*5.0*
	50		*F-B224M50H*	*FE-B224M50H*															*4.7*
		2 3/16	**F-B22435H**	**FE-B22435H**	4 7/8	4 7/8	6 3/8	4 1/2	7 3/8	3 5/16	5/8	3/32	11/16	3 25/32	3 13/32	3 3/8	7 3/4	25/32	14
		2 1/4	**F-B22436H**	**FE-B22436H**															14
	55		*F-B224M55H*	*FE-B224M55H*	*123.8*	*123.8*	*161.92*	*114.30*	*187.3*	*84.14*	*16*	*2.4*	*17.5*	*96.0*	*86.5*	*85.7*	*196.8*	*19.8*	*6.5*
		2 7/16	**F-B22439H**	**FE-B22439H**	5 3/8	5 3/8	6 3/4	4 49/64	7 3/4	3 1/2	5/8	3/32	3/4	3 31/32	3 19/32	3 5/8	8 1/8	27/32	17
		2 1/2	**F-B22440H**	**FE-B22440H**															17
	60		*F-B224M60H*	*FE-B224M60H*	*136.5*	*136.5*	*171.45*	*121.06*	*196.8*	*88.90*	*16*	*2.4*	*19.0*	*100.8*	*91.3*	*92.1*	*206.4*	*21.4*	*7.9*
		2 11/16	**F-B22443H**	**FE-B22443H**	6 1/4	6 1/4	7 7/8	5 9/16	9 1/8	4	3/4	3/32	7/8	4 7/16	4 3/32	4 3/16	9 1/2	27/32	28
		2 3/4	F-B22444H	FE-B22444H															27
		2 15/16	**F-B22447H**	**FE-B22447H**															26
		3	**F-B22448H**	**FE-B22448H**															26
	65		*F-B224M65H*	*FE-B224M65H*	*158.8*	*158.8*	*200.02*	*141.27*	*231.8*	*101.60*	*20*	*2.4*	*22.2*	*112.7*	*104.0*	*106.4*	*241.3*	*21.4*	*12.7*
	70		*F-B224M70H*	*FE-B224M70H*															*12.5*
	75		*F-B224M75H*	*FE-B224M75H*															*12.0*
4-BOLT SQUARE		3 3/16	**F-B22451H**	**FE-B22451H**	7 3/8	7 3/8	9 1/2	6 23/32	8 5/8	4 3/8	3/4	3/16	1 3/8	4 29/32	4 9/16	5	11 7/16	15/16	41
		3 7/16	**F-B22455H**	**FE-B22455H**															39
		3 1/2	**F-B22456H**	**FE-B22456H**															39
	80		*F-B224M80H*	*FE-B224M80H*	*187.3*	*187.3*	*241.30*	*170.64*	*219.1*	*111.12*	*20*	*4.8*	*34.9*	*124.6*	*115.9*	*127.0*	*290.5*	*23.8*	*18.6*
	85		*F-B224M85H*	*FE-B224M85H*															*18.1*
		3 11/16	**F-B22459H**	FE-B22459H	8 1/8	8 3/8	10 3/4	7 39/64	9 3/4	5 1/16	7/8	5/32	1 1/2	5 5/8	5 7/32	5 29/32	12 29/32	1 1/32	59
		3 15/16	**F-B22463H**	**FE-B22463H**															57
		4	**F-B22464H**	**FE-B22464H**															57
	90		*F-B224M90H*	*FE-B224M90H*	*206.4*	*212.7*	*273.05*	*193.28*	*247.6*	*128.59*	*24*	*4.0*	*38.1*	*142.9*	*132.6*	*150.0*	*327.8*	*26.2*	*27.7*
	100		*F-B224M100H*	*FE-B224M100H*															*25.9*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
● For expansion units, dimensions G, L, and P are minimum values. For maximum values, add .375" *(9.5 mm)*.
▲ Cross flat dimension for 3 3/16" and larger shaft.
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Flanged Units

EFR-B22400H

Cast Iron Housing
Padded Flange
4-bolt Mounting
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Self-Aligning Type E Interchange

Dimensions (inches/*mm*)

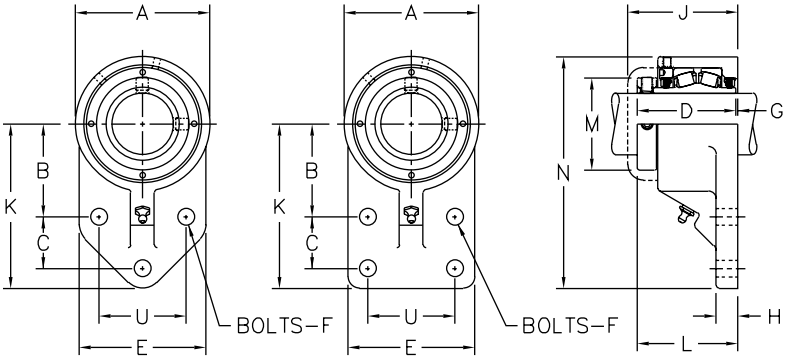
Shaft dia. mm	Shaft dia. inches	Flanged unit number	A	B Circle	B Square	C	D	F Bolts	G	H	J ◆	L	M	N	Unit wt. (lbs./kg.)
	1 7/16	**EFR-B22423H**	3 3/4	4 61/64	3 1/2	4 5/8	2 7/8	1/2	1/16	1 1/4	4 1/32	2 31/32	2 1/2	6 1/16	8
35		*EFR-B224M35H*	*95.2*	*125.81*	*88.9*	*117.5*	*73.02*	*12*	*1.6*	*31.8*	*102.4*	*75.4*	*63.5*	*154.0*	*3.4*
	1 1/2	**EFR-B224B24H**	4 1/4	5 53/64	4 1/8	5 1/2	3 1/8	1/2	1/8	1 3/8	4 9/32	3 9/32	2 3/4	7 7/32	11
	1 5/8	**EFR-B22426H**													11
	1 11/16	**EFR-B22427H**													10
40		*EFR-B224M40H*	*108.0*	*148.03*	*104.8*	*139.7*	*79.38*	*12*	*3.2*	*34.9*	*108.7*	*83.3*	*69.8*	*183.4*	*5.1*
	1 3/4	**EFR-B224B28H**	4 1/2	6 3/16	4 3/8	5 1/2	3 1/8	1/2	1/8	1 7/16	4 5/16	3 9/32	2 15/16	7 5/16	11
	1 15/16	**EFR-B22431H**													11
	2	**EFR-B22432H**													10
45		*EFR-B224M45H*	*114.3*	*157.18*	*111.1*	*139.7*	*79.38*	*12*	*3.2*	*36.5*	*109.5*	*83.3*	*74.6*	*185.7*	*5.3*
50		*EFR-B224M50H*													*5.0*
	2 3/16	**EFR-B22435H**	5	6 57/64	4 7/8	6 1/4	3 5/16	5/8	1/8	1 1/2	4 5/8	3 15/32	3 3/8	8 9/32	15
55		*EFR-B224M55H*	*127.0*	*175.03*	*123.8*	*158.8*	*84.14*	*16*	*3.2*	*38.1*	*117.5*	*88.1*	*85.7*	*210.3*	*7.1*
	2 1/4	**EFR-B224B36H**	5 3/8	7 19/32	5 3/8	6 3/4	3 1/2	5/8	3/16	1 11/16	4 15/16	3 23/32	3 5/8	8 31/32	18
	2 7/16	**EFR-B22439H**													17
	2 1/2	**EFR-B22440H**													17
60		*EFR-B224M60H*	*136.5*	*192.89*	*136.5*	*171.4*	*88.90*	*16*	*4.8*	*42.9*	*125.4*	*94.5*	*92.1*	*227.8*	*7.9*
	2 11/16	**EFR-B22443H**	6 1/4	8 31/64	6	7 5/8	4	3/4	3/16	1 13/16	5 13/32	4 7/32	4 3/16	10 1/8	26
	2 3/4	EFR-B22444H													25
	2 15/16	**EFR-B22447H**													24
	3	**EFR-B22448H**													24
65		*EFR-B224M65H*													*11.7*
70		*EFR-B224M70H*	*158.8*	*215.49*	*152.4*	*193.7*	*101.60*	*20*	*4.8*	*46.0*	*137.3*	*107.2*	*106.4*	*257.2*	*11.5*
75		*EFR-B224M75H*													*11.0*
	3 3/16	**EFR-B22451H**	7 3/8	9 59/64	7	8 3/4	4 3/8	3/4	3/32	1 15/16	5 3/4	4 15/32	5	11 21/32	42
	3 7/16	**EFR-B22455H**													41
	3 1/2	EFR-B22456H													40
80		*EFR-B224M80H*	*187.3*	*251.23*	*177.8*	*222.2*	*111.12*	*20*	*2.4*	*49.2*	*146.0*	*113.5*	*127.0*	*296.1*	*18.9*
85		*EFR-B224M85H*													*18.4*
	3 11/16	EFR-B22459H	8 3/8	10 61/64	7 3/4	9 3/4	5 1/16	7/8	3/32	2 3/16	6 5/8	5 3/16	5 29/32	12 31/32	58
	3 15/16	**EFR-B22463H**													56
	4	**EFR-B22464H**													56
90		*EFR-B224M90H*	*212.7*	*278.21*	*196.8*	*247.6*	*128.59*	*24*	*2.4*	*55.6*	*168.3*	*131.8*	*150.0*	*329.4*	*27.2*
100		*EFR-B224M100H*													*25.4*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Flanged Bracket Units

FB-B22400H

High-Test Iron Housing
3-bolt or 4-bolt Mounting
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

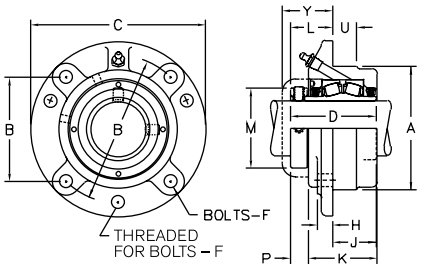
Type of Housing	Shaft dia. *mm*	Shaft dia. inches	Flanged bracket unit number	A	B	C	D	E	F Bolts	G	H	J ◆	K	L	M	N	U	Unit wt. (lbs./kg.)
3-BOLT		1 7/16	**FB-B22423H**	3 7/16	2 3/8	1 1/4	2 7/8	3 1/4	1/2	1/32	5/8	3 5/16	4 1/4	2 29/32	2 1/2	5 31/32	2	6.4
		1 1/2	**FB-B22424H**															6.4
	35		*FB-B224M35H*	*87.3*	*60.3*	*31.8*	*73.02*	*82.6*	*12*	*0.8*	*15.9*	*84.1*	*108.0*	*73.8*	*63.5*	*151.6*	*50.8*	*2.9*
		1 15/16	**FB-B22431H**	4 1/4	2 15/16	1 5/8	3 1/8	4	1/2	1/16	1 1/16	3 9/16	5 3/16	3 3/16	2 15/16	7 5/16	2 3/4	10.0
		2	**FB-B22432H**															10.0
	45		*FB-B224M45H*	*108.0*	*74.6*	*41.3*	*79.38*	*101.6*	*12*	*1.6*	*17.5*	*90.5*	*131.8*	*81.0*	*74.6*	*185.7*	*69.8*	*4.4*
	50		*FB-B224M50H*															*4.3*
4-BOLT		2 7/16	**FB-B22439H**	5 3/8	3 3/4	1 3/4	3 1/2	4 7/8	5/8	3/32	3/4	3 31/32	6 1/4	3 19/32	3 5/8	8 15/16	3	17.5
		2 1/2	**FB-B22440H**															17.5
	60		*FB-B224M60H*	*136.5*	*95.2*	*44.4*	*88.90*	*123.8*	*16*	*2.4*	*19.0*	*100.8*	*158.8*	*91.3*	*92.1*	*227.0*	*76.2*	*8.1*
		2 11/16	**FB-B22443H**	6 1/4	3 7/8	2 1/4	4	5 3/4	3/4	3/32	7/8	4 7/16	7	4 3/32	4 3/16	10 1/8	4	30.0
		2 3/4	FB-B22444H															30.0
		2 15/16	**FB-B22447H**															28.0
		3	**FB-B22448H**															28.0
	65		*FB-B224M65H*	*158.8*	*98.4*	*57.2*	*101.60*	*146.0*	*20*	*2.4*	*22.2*	*112.7*	*177.8*	*104.0*	*106.4*	*257.2*	*101.6*	*13.7*
	70		*FB-B224M70H*															*13.5*
	75		*FB-B224M75H*															*12.8*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size: for 1½ and smaller shafts, ¼"-28 UNF; for all other shafts, ⅛" PT.
All units available with type E lip seals.
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Flanged Cartridge Units

FC-B22400H

Cast Iron Housing
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed
Jack Screw Holes for Removal



Self-Aligning Type E Interchange

Dimensions (inches/*mm*)

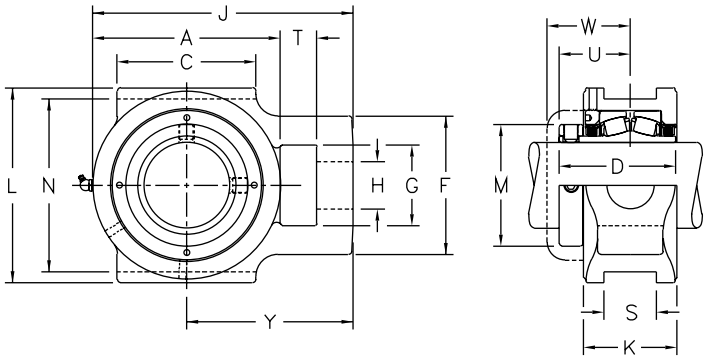
Shaft dia. mm	Shaft dia. inches	Flanged cartridge unit number	A †	B Circle	B Square	C	D	F Bolts	H	J	K	L	M	P	U	Y ◆	Unit wt. (lbs./kg.)
	1	**FC-B22416H**	3.000	3 5/8	2 9/16	4 3/8	2 9/16	5/16	7/16	1 1/4	2 1/32	1 9/32	2	17/32	5/8	1 5/8	4
25		*FC-B224M25H*	*76.20*	*92.08*	*65.1*	*111.1*	*65.09*	*8*	*11.1*	31.8	51.6	*32.5*	*50.8*	*13.5*	*15.9*	*41.3*	*1.6*
	1 3/16	**FC-B22419H**	3.375	4 1/8	2 59/64	5	2 11/16	3/8	7/16	1 25/64	2 5/32	1 9/32	2 3/16	17/32	3/4	1 5/8	5
	1 1/4	**FC-B22420H**															5
30		*FC-B224M30H*	*85.72*	*104.78*	*74.2*	*127.0*	*68.26*	*10*	*11.1*	*35.3*	*54.8*	*32.5*	*55.6*	*13.5*	*19.0*	*41.3*	*2.2*
	1 7/16	**FC-B22423H**	3.625	4 3/8	3 3/32	5 1/4	2 7/8	3/8	1/2	1 25/64	2 7/32	1 15/32	2 1/2	21/32	3/4	1 7/8	6
	1 1/2	**FC-B22424H**															6
35		*FC-B224M35H*	*92.08*	*111.12*	*78.6*	*133.4*	*73.02*	*10*	*12.7*	*35.3*	*56.4*	*37.3*	*63.5*	*16.7*	*19.0*	*47.6*	*2.6*
	1 5/8	**FC-B22426H**															9
	1 11/16	**FC-B22427H**	4.250	5 1/8	3 5/8	6 1/8	3 1/8	7/16	1/2	1 19/32	2 15/32	1 17/32	2 3/4	21/32	7/8	1 7/8	9
	1 3/4	**FC-B22428H**															9
40		*FC-B224M40H*	*107.95*	*130.18*	*92.1*	*155.6*	*79.38*	*10*	*12.7*	*40.5*	*62.7*	*38.9*	*69.8*	*16.7*	*22.2*	*47.6*	*3.8*
	1 15/16	**FC-B22431H**	4.500	5 3/8	3 51/64	6 3/8	3 1/8	7/16	9/16	1 19/32	2 15/32	1 17/32	2 15/16	21/32	7/8	1 29/32	9
	2	**FC-B22432H**															9
45		*FC-B224M45H*	*114.30*	*136.52*	*96.4*	*161.9*	*79.38*	*10*	*14.3*	*40.5*	*62.7*	*38.9*	*74.6*	*16.7*	*22.2*	*48.4*	*4.0*
50		*FC-B224M50H*															*4.3*
	2 3/16	**FC-B22435H**	5.000	6	4 1/4	7 1/8	3 5/16	1/2	9/16	1 21/32	2 17/32	1 21/32	3 3/8	25/32	1	2 1/32	12
	2 1/4	**FC-B22436H**															12
55		*FC-B224M55H*	*127.00*	*152.40*	*107.9*	*181.0*	*84.14*	*12*	*14.3*	*42.1*	*64.3*	*42.1*	*85.7*	*19.8*	*25.4*	*51.6*	*5.6*
	2 7/16	**FC-B22439H**	5.500	6 1/2	4 19/32	7 5/8	3 1/2	1/2	5/8	1 11/16	2 21/32	1 13/16	3 5/8	7/8	1	2 5/32	16
	2 1/2	**FC-B22440H**															16
60		*FC-B224M60H*	*139.70*	*165.10*	*116.7*	*193.7*	*88.90*	*12*	*15.9*	*42.9*	*67.5*	*46.0*	*92.1*	*22.2*	*25.4*	*54.8*	*7.2*
	2 11/16	**FC-B22443H**	6.375	7 1/2	5 19/64	8 3/4	4	5/8	3/4	2 1/32	3 5/32	1 31/32	4 3/16	27/32	1 1/4	2 5/16	25
	2 3/4	FC-B22444H															25
	2 15/16	**FC-B22447H**															24
	3	**FC-B22448H**															24
65		*FC-B224M65H*	*161.92*	*190.50*	*134.5*	*222.2*	*101.60*	*16*	*19.0*	*51.6*	*80.2*	*50.0*	*106.4*	*21.4*	*31.8*	*58.7*	*11.6*
70		*FC-B224M70H*															*11.4*
75		*FC-B224M75H*															*11.0*
	3 3/16	**FC-B22451H**	7.375	8 5/8	6 3/32	10 1/4	4 3/8	3/4	15/16	1 15/16	3 3/8	2 7/16	5	15/16	1 1/4	2 25/32	38
	3 7/16	**FC-B22455H**															37
	3 1/2	FC-B22456H															36
80		*FC-B224M80H*	*187.32*	*219.08*	*154.8*	*260.4*	*111.12*	*20*	*23.8*	*49.2*	*85.8*	*61.9*	*127.0*	*23.8*	*31.8*	*70.6*	*17.4*
85		*FC-B224M85H*															*16.9*
	3 11/16	**FC-B22459H**	8.125	9 3/8	6 5/8	10 7/8	5 1/16	3/4	1 1/8	2 13/32	3 31/32	2 21/32	5 29/32	1 1/32	2	3 1/16	52
	3 15/16	**FC-B22463H**															50
	4	**FC-B22464H**															50
90		*FC-B224M90H*	*206.38*	*238.12*	*168.3*	*276.2*	*128.59*	*20*	*28.6*	*61.1*	*101.1*	*67.5*	*150.0*	*26.2*	*50.8*	*77.8*	*24.6*
100		*FC-B224M100H*															*22.8*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1" & smaller shaft size, ¼-28 UNF; for all others, ⅛" PT.
All units available with type E lip seals.
† Tolerance, +.000 –.002" (+*0.00 mm −0.05 mm)*; bore tolerance for mounting +.002" –.000" (+*0.05 mm −0.00 mm).*
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Takeup Units

T-B22400H

Cast Iron Housing
Machined Slots
Self-aligning
Spring Locking Collar
Factory Adjusted Clearance



Dimensions (inches/*mm*)

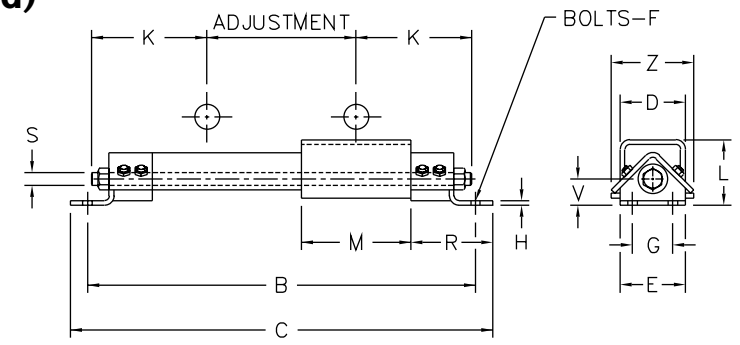
Shaft dia. mm	Shaft dia. inches	Takeup unit number	A	C	D	F	G	H	J	K	L	M	N □	S □	T	U	W ◆	Y	Unit wt. (lbs./kg.)
	1	**T-B22416H**	2 15/16	2 1/4	2 9/16	2	1 1/4	13/16	4	2 1/16	3 5/8	2	3.000	.531	5/8	1 9/16	1 29/32	2 9/16	4.4
25		*T-B224M25H*	*74.6*	*57.2*	*65.09*	*50.8*	*31.8*	*20.6*	*101.6*	*52.4*	*92.1*	*50.8*	*76.20*	*13.49*	*15.9*	*39.7*	*48.4*	*65.1*	*2.0*
	1 3/16	**T-B22419H**	3 1/4	2 1/2	2 11/16	2 5/16	1 7/16	7/8	4 7/16	2 3/16	4 1/8	2 3/16	3.500	.531	5/8	1 5/8	1 31/32	2 13/16	5.7
	1 1/4	**T-B22420H**																	5.6
30		*T-B224M30H*	*82.6*	*63.5*	*68.26*	*58.7*	*36.5*	*22.2*	*112.7*	*55.6*	*104.8*	*55.6*	*88.90*	*13.49*	*15.9*	*41.3*	*50.0*	*71.4*	*2.6*
	1 7/16	**T-B22423H**	3 1/2	2 3/4	2 7/8	2 3/8	1 7/16	7/8	4 3/4	2 1/4	4 1/8	2 1/2	3.500	.531	5/8	1 25/32	2 3/16	3	6.4
	1 1/2	**T-B22424H**																	6.4
35		*T-B224M35H*	*88.9*	*69.8*	*73.02*	*60.3*	*36.5*	*22.2*	*120.6*	*57.2*	*104.8*	*63.5*	*88.90*	*13.49*	*15.9*	*45.2*	*55.6*	*76.2*	*2.9*
	1 5/8	**T-B22426H**	4 1/8	3 1/4	3 1/8	3 3/16	1 15/16	1 1/8	5 11/16	2 1/2	4 3/4	2 3/4	4.000	.687	3/4	1 29/32	2 1/4	3 5/8	9.7
	1 11/16	**T-B22427H**																	9.5
	1 3/4	**T-B22428H**																	9.5
40		*T-B224M40H*	*104.8*	*82.6*	*79.38*	*81.0*	*49.2*	*28.6*	*144.5*	*63.5*	*120.6*	*69.8*	*101.60*	*17.46*	*19.0*	*48.4*	*57.2*	*92.1*	*4.5*
	1 15/16	**T-B22431H**	4 3/8	3 3/8	3 1/8	3 3/16	1 15/16	1 1/8	5 15/16	2 1/2	4 3/4	2 15/16	4.000	.687	3/4	1 29/32	2 9/32	3 3/4	9.9
	2	**T-B22432H**																	9.7
45		*T-B224M45H*																	*4.7*
50		*T-B224M50H*	*111.1*	*85.7*	*79.38*	*81.0*	*49.2*	*28.6*	*150.8*	*63.5*	*120.6*	*74.6*	*101.60*	*17.46*	*19.0*	*48.4*	*57.9*	*95.2*	*4.7*
	2 3/16	**T-B22435H**	5 1/16	3 3/4	3 5/16	3 3/4	2 1/4	1 1/4	7	2 9/16	5 1/4	3 3/8	4.500	.813	1	2 1/16	2 7/16	4 15/32	14.1
	2 1/4	**T-B22436H**																	14.1
55		*T-B224M55H*	*128.6*	*95.2*	*84.14*	*95.2*	*57.2*	*31.8*	*177.8*	*65.1*	*133.4*	*85.7*	*114.30*	*20.64*	*25.4*	*52.4*	*61.9*	*113.5*	*6.8*
	2 7/16	**T-B22439H**	5 9/16	4	3 1/2	4 1/8	2 1/2	1 3/8	7 13/16	2 11/16	5 7/8	3 5/8	5.125	1.063	1 1/4	2 3/16	2 9/16	5 1/32	18.0
	2 1/2	**T-B22440H**																	17.8
60		*T-B224M60H*	*141.3*	*101.6*	*88.90*	*104.8*	*63.5*	*34.9*	*198.4*	*68.3*	*149.2*	*92.1*	*130.18*	*26.99*	*31.8*	*55.6*	*65.1*	*127.8*	*8.3*
	2 11/16	**T-B22443H**	6 7/16	4 3/4	4	4 3/4	2 3/4	1 5/8	8 15/16	3 3/16	6 11/16	4 3/16	5.937	1.812	1 1/4	2 7/16	2 25/32	5 23/32	13.6
	2 3/4	T-B22444H																	13.5
	2 15/16	**T-B22447H**																	13.0
	3	**T-B22448H**																	12.9
65		*T-B224M65H*																	*6.6*
70		*T-B224M70H*	*163.5*	*120.6*	*101.60*	*120.6*	*69.8*	*41.3*	*227.0*	*81.0*	*169.9*	*106.4*	*150.81*	*46.02*	*31.8*	*61.9*	*70.6*	*145.2*	*6.4*
75		*T-B224M75H*																	*5.9*
	3 7/16	**T-B22455H**	7 3/8	5 1/2	4 3/8	4 7/8	2 7/8	1 7/8	10	3 7/16	7 13/16	5	6.812	1.812	1 9/16	2 21/32	3	6 5/16	43.5
	3 1/2	**T-B22456H**																	43.1
80		*T-B224M80H*																	*20.5*
85		*T-B224M85H*	*187.3*	*139.7*	*111.12*	*123.8*	*73.0*	*47.6*	*254.0*	*87.3*	*198.4*	*127.0*	*173.02*	*46.02*	*39.7*	*67.5*	*76.2*	*160.3*	*20.0*
	3 15/16	**T-B22463H**	8 7/8	7	5 1/16	5 1/4	3 1/8	1 7/8	11 7/8	4	9 5/8	5 29/32	8.625	2.062	1 5/8	3 1/16	3 7/16	7 7/16	77
	4	**T-B22464H**																	76
90		*T-B224M90H*																	*34.9*
100		*T-B224M100H*	*225.4*	*177.8*	*128.59*	*133.4*	*79.4*	*47.6*	*301.6*	*101.6*	*244.5*	*150.0*	*219.08*	*52.37*	*41.3*	*77.8*	*87.3*	*188.9*	*34.5*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62, D-63.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
□ Slots are machined, tolerance, +.005" –.015" (*+0.13 mm –0.38 mm).*
◆ Width dimension for closed end unit.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Spherical Roller Bearing Takeups

LHD Type (Bearing Unit Not Included)

Welded Steel Frame
Protected Screw
P-B22400FH Pillow Block
P-B22500FH Pillow Block
P-B22600FH Pillow Block



Dimensions (inches/*mm*)

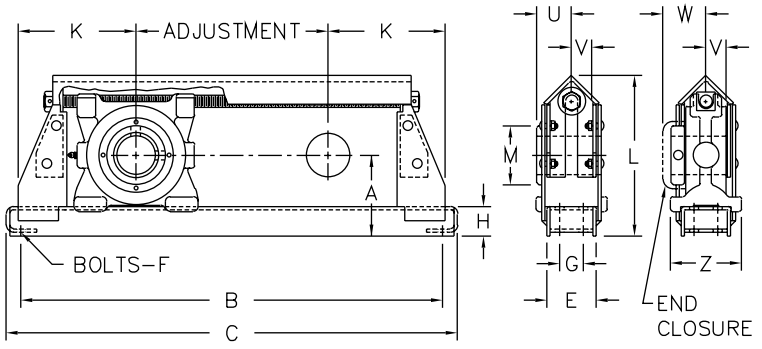
Shaft Sizes: P-B224, PK-B224, P-B226, PK-B226	Shaft Sizes: EP-B224, EP-B225, EP-B226	Shaft Sizes: P-B225	Takeup frame number	Adjustment	B	C	D	E	F Bolts	G	H	K	L	M	R	S Rod Dia.	V	Z
1 3/16 thru 2 1/2	1 7/16 thru 2 1/2	1 7/16 thru 2 7/16	**LHD20-12**	12	29	31												
			LHD20-18	18	35	37												
			LHD20-24	24	41	43	4	5	5/8	2 1/2	1/4	8 1/2	5 1/4	11	4	3/4	2	6 1/4
			LHD20-30	30	47	49	101.6	127.0	16	63.5	6.4	215.9	133.4	279.4	101.6	. . .	50.8	158.8
			LHD20-36	36	53	55												
			LHD20-48	48	65	67												
2 11/16 thru 3	2 11/16 thru 3	2 11/16 thru 2 15/16	**LHD25-12**	12	32 3/4	35 1/4												
			LHD25-18	18	38 3/4	41 1/4												
			LHD25-24	24	44 3/4	47 1/4	5	5 1/2	5/8	3	3/8	10 3/8	6 1/4	13 1/4	5	1	2 9/16	7 1/8
			LHD25-30	30	50 3/4	53 1/4	127.0	139.7	16	76.2	9.5	263.5	158.8	336.6	127.0	. . .	65.1	181.0
			LHD25-36	36	56 3/4	59 1/4												
			LHD25-48	48	68 3/4	71 1/4												
3 3/16 thru 3 1/2	. . .	3 7/16	LHD30-12	12	35 1/2	38 1/4												
			LHD30-18	18	41 1/2	44 1/4												
			LHD30-24	24	47 1/2	50 1/4	6	6 1/2	3/4	3	1/2	11 3/4	7	14 1/4	6	1	2 1/2	9
			LHD30-30	30	53 1/2	56 1/4	152.4	165.1	20	76.2	12.7	298.4	177.8	362.0	152.4	. . .	63.5	228.6
			LHD30-36	36	59 1/2	62 1/4												
	. . .		LHD30-48	48	71 1/2	74 1/4												
3 11/16 thru 4	3 3/16 thru 3 1/2	3 15/16 thru 4 1/2	LHD35-12	12	37 1/4	40												
			LHD35-18	18	43 1/4	46												
			LHD35-24	24	49 1/4	52	6	6 1/2	3/4	3	1/2	12 5/8	7	16	6	1 1/4	2 1/2	9
			LHD35-30	30	55 1/4	58	152.4	165.1	20	76.2	12.7	320.7	177.8	406.4	152.4	. . .	63.5	228.6
			LHD35-36	36	61 1/4	64												
			LHD35-48	48	73 1/4	76												
. . .	. . .	4 15/16 thru 5	LHD40-12	12	41 1/4	44												
			LHD40-18	18	47 1/4	50												
			LHD40-24	24	53 1/4	56	7	6 1/2	3/4	3	1/2	14 5/8	7	20	6	1 1/2	2 1/2	9
			LHD40-30	30	59 1/4	62	177.8	165.1	20	76.2	12.7	371.5	177.8	508.0	152.4	. . .	63.5	228.6
			LHD40-36	36	65 1/4	68												
			LHD40-48	48	77 1/4	80												
. . .	. . .	. . .	LHD50-12	12	47	49 1/2												
			LHD50-18	18	53	55 1/2												
			LHD50-24	24	59	61 1/2	8 1/2	7	7/8	4	1/2	17 1/2	7 3/4	23 1/2	6 3/4	1 1/2	3 3/8	11 1/4
			LHD50-30	30	65	67 1/2	215.9	177.8	24	101.6	12.7	444.5	196.8	596.9	171.4	. . .	85.7	285.8
			LHD50-36	36	71	73 1/2												
			LHD50-48	48	83	85 1/2												

Bold face items are normally available from stock; please consult for availability of non-stock items.
Takeup frames can be furnished drilled to accommodate pillow block; order takeup frame drilled for " " pillow block; i.e. LHD20-12 drilled for P-B22419FH.
For load ratings, see rating table for pillow block to be used.
Additional information, page D-68, D-69.

Spherical Roller Bearing Takeups

DS-B22400H, DS-B22500H

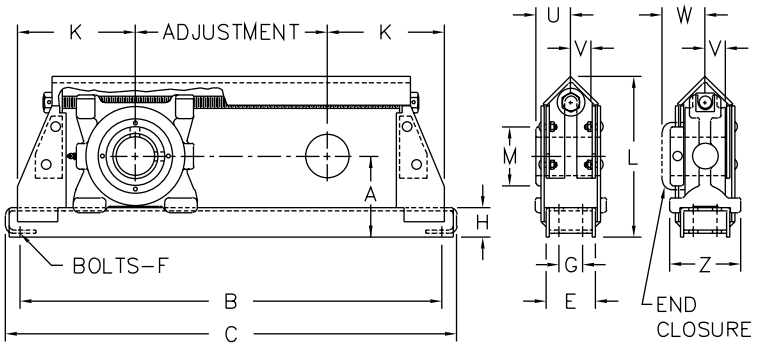
Welded Steel Frame
Removable Top
Protected Screw
Cast Iron Bearing Housing
Self-aligning
Spring Locking Collar
Factory Adjusted and Sealed
DS-B22400H or DS-B22500H Takeup Units



Dimensions (inches/*mm*)

Shaft dia. *mm*	Shaft dia. inches	Adjustment ▲	Takeup unit number	A	B	C	E	F Bolts	G	H	K	L	M	U	V	W ◆	Z	Unit wt. (lbs./kg.)
	1 15/16	12	**DS-B22431H-12**	3 15/16	26 1/2	28 1/2	3	5/8	. . .	1 3/4	7 1/4	8 1/4	2 15/16	1 29/32	1 1/4	2 9/32	4 1/8	43
		18	**DS-B22431H-18**		32 1/2	34 1/2												49
		24	**DS-B22431H-24**		38 1/2	40 1/2												54
		304.8	*DS-B224M45H-12*															*19.5*
45		*457.2*	*DS-B224M45H-18*															*22.2*
		609.6	*DS-B224M45H-24*		*673.1*	*723.9*												*24.5*
				100	*825.5*	*876.3*	*76.2*	*16*	*. . .*	*44.4*	*184.2*	*209.6*	*74.6*	*48.4*	*31.8*	*57.9*	*104.8*	
		304.8	*DS-B224M50H-12*		*977.9*	*1028.7*												*19.5*
50		*457.2*	*DS-B224M50H-18*															*22.2*
		609.6	*DS-B224M50H-24*															*24.5*
	2 3/16	12	**DS-B22435H-12**	4 3/16	27 1/2	29 1/2	3	5/8	. . .	1 3/4	7 3/4	8 11/16	3 3/8	2 1/16	1 9/32	2 7/16	4 1/8	49
		18	**DS-B22435H-18**		33 1/2	35 1/2												55
		24	**DS-B22435H-24**		39 1/2	41 1/2												60
		304.8	*DS-B224M55H-12*		*698.5*	*749.3*												*22.2*
55		*457.2*	*DS-B224M55H-18*	*106.4*	*850.9*	*901.7*	*76.2*	*16*	*. . .*	*44.4*	*196.8*	*220.7*	*85.7*	*52.4*	*32.5*	*61.9*	*104.8*	*24.9*
		609.6	*DS-B224M55H-24*		*1003.3*	*1054.1*												*27.2*
	2 7/16	12	**DS-B22439H-12**	4 3/8	28 1/2	30 1/2	3	3/4	. . .	1 3/4	8 1/4	9 1/8	3 5/8	2 3/16	1 3/8	2 9/16	4 1/8	55
		18	**DS-B22439H-18**		34 1/2	36 1/2												61
		24	**DS-B22439H-24**		40 1/2	42 1/2												66
		30	**DS-B22439H-30**		46 1/2	48 1/2												71
		304.8	*DS-B224M60H-12*		*723.9*	*774.7*												*24.9*
60		*457.2*	*DS-B224M60H-18*	*111.1*	*876.3*	*927.1*	*76.2*	*20*	*. . .*	*44.4*	*209.6*	*231.8*	*92.1*	*55.6*	*34.9*	*65.1*	*104.8*	*27.2*
		609.6	*DS-B224M60H-24*		*1028.7*	*1079.5*												*29.9*
		762.0	*DS-B224M60H-30*		*1181.1*	*1231.9*												*32.2*
	2 15/16	12	**DS-B22447H-12**	5 1/8	30 1/2	32 1/2	4	5/8	2	2	9 1/4	10 5/8	4 3/16	2 7/16	1 5/8	2 25/32	5 1/8	80
		18	**DS-B22447H-18**		36 1/2	38 1/2												89
		24	**DS-B22447H-24**		42 1/2	44 1/2												97
		30	**DS-B22447H-30**		48 1/2	50 1/2												05
		304.8	*DS-B224M65H-12*															
65		*457.2*	*DS-B224M65H-18*															
		609.6	*DS-B224M65H-24*															
		762.0	*DS-B224M65H-30*															
		304.8	*DS-B224M70H-12*		*774.7*	*825.5*												*36.3*
70		*457.2*	*DS-B224M70H-18*	*130.2*	*927.1*	*977.9*	*101.6*	*16*	*50.8*	*50.8*	*235.0*	*269.9*	*106.4*	*61.9*	*41.3*	*70.6*	*130.2*	*40.4*
		609.6	*DS-B224M70H-24*		*1079.5*	*1130.3*												*44.4*
		762.0	*DS-B224M70H-30*		*1231.9*	*1282.7*												*47.6*
		304.8	*DS-B224M75H-12*															
75		*457.2*	*DS-B224M75H-18*															
		609.6	*DS-B224M75H-24*															
		762.0	*DS-B224M75H-30*															

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62 through D-65.
◆ Width dimension for closed end unit.
Continued on facing page.



Dimensions (inches/*mm*)

Shaft dia. *mm*	Shaft dia. inches	Adjustment ▲	Takeup unit number	A	B	C	E	F Bolts	G	H	K	L	M	U	V	W ◆	Z	Unit wt. (lbs./kg.)
	3 7/16	12	**DS-B22455H-12**	5 5/8	32	34 1/4	4	3/4	2	2	10	11 13/16	5	2 21/32	1 23/32	3	5 5/8	107
		18	**DS-B22455H-18**		38	40 1/4												116
		24	**DS-B22455H-24**		44	46 1/4												124
		30	**DS-B22455H-30**		50	52 1/4												132
		304.8	*DS-B224M80H-12*															
	80	*457.2*	*DS-B224M80H-18*															
		609.6	*DS-B224M80H-24*		*812.8*	*870.0*												*48.5*
		762.0	*DS-B224M80H-30*		*965.2*	*1022.4*												*52.6*
				142.9	*1117.6*	*1174.8*	*101.6*	*20*	*50.8*	*50.8*	*254.0*	*300.0*	*127.0*	*67.5*	*43.6*	*76.2*	*142.9*	*56.2*
		304.8	*DS-B224M85H-12*		*1270.0*	*1327.2*												*59.9*
	85	*457.2*	*DS-B224M85H-18*															
		609.6	*DS-B224M85H-24*															
		762.0	*DS-B224M85H-30*															
	3 15/16	12	**DS-B22463H-12**	7	36	38 1/2	5	3/4	2 1/2	2 1/4	12	14 11/16	5 29/32	3 1/16	2	3 7/16	6 7/8	180
		18	**DS-B22463H-18**		42	44 1/2												192
		24	**DS-B22463H-24**		48	50 1/2												202
		30	**DS-B22463H-30**		54	56 1/2												212
		304.8	*DS-B224M90H-12*															
90		*457.2*	*DS-B224M90H-18*															
		609.6	*DS-B224M90H-24*		*914.4*	*977.9*												*81.6*
		762.0	*DS-B224M90H-30*		*1066.8*	*1130.3*												*87.1*
				177.8	*1219.2*	*1282.7*	*127.0*	*20*	*63.5*	*57.2*	*304.8*	*373.1*	*150.0*	*77.8*	*50.8*	*87.3*	*174.6*	*91.6*
		304.8	*DS-B224M100H-12*		*1371.6*	*1435.1*												*96.2*
100		*457.2*	*DS-B224M100H-18*															
		609.6	*DS-B224M100H-24*															
		762.0	*DS-B224M100H-30*															
	4 7/16	18	**DS-B22571H-18**○	7 1/2	42	44 1/2	5	3/4	2 1/2	2 1/4	12	15 11/16	6 1/8	3 3/8	3 3/8	3 3/4	6 7/8	238
		24	**DS-B22571H-24**○		48	50 1/2												250
		30	DS-B22571H-30○		54	56 1/2												263
		457.2	*DS-B225M110H-18*○															
110		*609.6*	*DS-B225M110H-24*○															
		762.0	*DS-B225M110H-30*○		*1066.8*	*1130.3*												*108.0*
				190.5	*1219.2*	*1282.7*	*127.0*	*20*	*63.5*	*57.2*	*304.8*	*398.5*	*155.6*	*85.7*	*85.7*	*95.2*	*174.6*	*113.4*
		457.2	*DS-B225M115H-18*○		*1371.6*	*1435.1*												*119.3*
115		*609.6*	*DS-B225M115H-24*○															
		762.0	*DS-B225M115H-30*○															
	4 15/16	18	**DS-B22579H-18**○	10	47	50 1/2	6	7/8	3	4	14 1/2	20 1/4	6 7/8	3 5/8	3 5/8	4	7 7/8	406
		24	**DS-B22579H-24**○		53	56 1/2												424
		30	**DS-B22579H-30**○		59	62 1/2												441
		457.2	*DS-B225M125H-18*○		*1193.8*	*1282.7*												*184.2*
125		*609.6*	*DS-B225M125H-24*○	*254.0*	*1346.2*	*1435.1*	*152.4*	*24*	*76.2*	*101.6*	*368.3*	*514.4*	*174.8*	*91.9*	*91.9*	*101.6*	*200.1*	*192.3*
		762.0	*DS-B225M125H-30*○		*1498.6*	*1587.5*												*200.0*

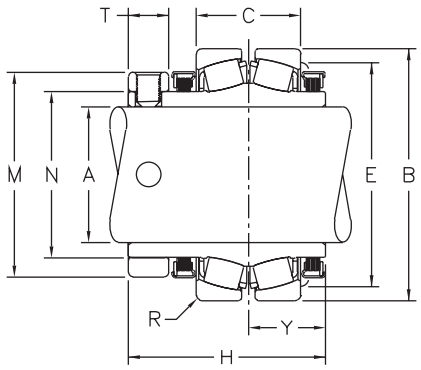
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-62 through D-65.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
◆ Width dimension for closed end unit.
5 inch channel (Dim E) has hinged top construction
▲ Takeups with adjustment of 18" *(457.2 mm)* or more have center supporting pad welded to bottom of frame.
○ Series DS-B22500H takeups have two spring locking collars (bearing dimensions, page D-40, load rating, pages D-33, D-34, selection guide, pages D-31, D-32.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

Notes:

Replacement Spherical Roller Bearings

B22400HL

Self-aligning
Spring Locking Collar



Dimensions (inches/*mm*)

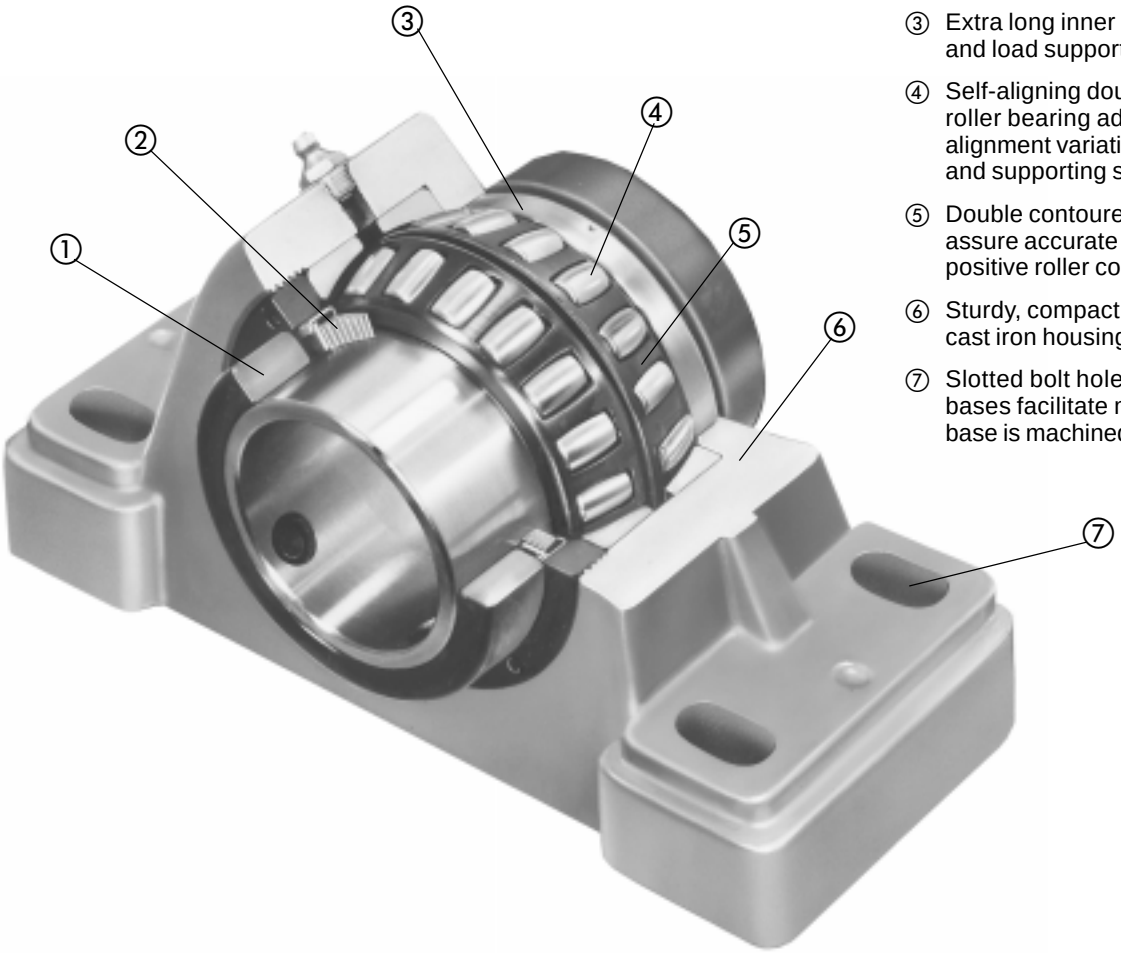
Shaft Sizes *mm*	Shaft Sizes inches	Bearing number *	A *mm* +0.025 −0.000	A inches +.0010 −.0000	B +.0010" −.000" +0.025 −0.000 *mm*	C ±.025" ±0.64 *mm* ‡	E Shoulder diameter	H	M	N	R Housing fillet	T	Y	Unit wt. (lbs./kg.)
	1	**B22416HL**		1.0000	2.3750	1.188	2	2 9/16	2	1.307	.046	1/2	1	1.3
25		*B224M25HL*	*25.000*		*60.325*	*30.18*	*50.8*	*65.09*	*50.8*	*33.20*	*1.17*	*12.7*	*25.40*	*0.6*
	1 3/16	**B22419HL**		1.1875	2.6250	1.312	2 5/16	2 11/16	2 3/16	1.532	.062	1/2	1 1/16	1.8
	1 1/4	**B22420HL**		1.2500										1.7
30		*B224M30HL*	*30.000*		*66.675*	*33.32*	*58.7*	*68.26*	*55.6*	*38.91*	*1.57*	*12.7*	*26.99*	*0.8*
	1 7/16	**B22423HL**		1.4375	2.8345	1.310	2 1/2	2 7/8	2 1/2	1.745	.062	5/8	1 3/32	2.2
	1 1/2	**B22424HL**		1.5000										2.1
35		*B224M35HL*	*35.000*		*71.996*	*33.27*	*63.5*	*73.02*	*63.5*	*44.32*	*1.57*	*15.9*	*27.78*	*1.0*
	1 1/2	**B224B24HL**		1.5000										
	1 5/8	**B22426HL**		1.6250	3.3464	1.578	2 7/8	3 1/8	2 3/4	2.027	.062	5/8	1 7/32	3.3
	1 11/16	**B22427HL**		1.6875										3.2
	1 3/4	**B22428HL**		1.7500										3.0
40		*B224M40HL*	*40.000*		*84.998*	*40.08*	*73.0*	*79.38*	*69.8*	*51.48*	*1.57*	*15.9*	*30.96*	*1.6*
	1 3/4	**B224B28HL**		1.7500										3.5
	1 15/16	**B22431HL**		1.9375	3.5433	1.526	3 3/16	3 1/8	2 15/16	2.307	.078	5/8	1 7/32	3.3
	2	**B22432HL**		2.0000										1.8
45		*B224M45HL*	*45.000*		*90.000*	*38.76*	*81.0*	*79.38*	*74.6*	*58.59*	*1.98*	*15.9*	*30.96*	*1.5*
50		*B224M50HL*	*50.000*											
	2 3/16	**B22435HL**		2.1875	3.9370	1.656	3 1/2	3 5/16	3 3/8	2.620	.062	3/4	1 1/4	4.7
	2 1/4	**B22436HL**		2.2500										4.5
55		*B224M55HL*	*55.000*		*100.000*	*42.06*	*88.9*	*84.14*	*85.7*	*66.55*	*1.57*	*19.0*	*31.75*	*2.2*
	2 1/4	**B224B36HL**		2.2500										
	2 7/16	**B22439HL**		2.4375	4.3307	1.750	3 7/8	3 1/2	3 5/8	2.901	.078	13/16	1 5/16	5.9
	2 1/2	**B22440HL**		2.5000										5.7
60		*B224M60HL*	*60.000*		*110.000*	*44.45*	*98.4*	*88.90*	*92.1*	*73.69*	*1.98*	*20.6*	*33.34*	*2.8*
	2 11/16	**B22443HL**		2.6875										10.3
	2 3/4	**B22444HL**		2.7500										10.1
	2 15/16	**B22447HL**		2.9375	5.1172	2.125	4 17/32	4	4 3/16	3.370	.078	13/16	1 9/16	9.0
	3	**B22448HL**		3.0000										8.7
65		*B224M65HL*	*65.000*											*4.8*
70		*B224M70HL*	*70.000*		*129.977*	*53.98*	*115.1*	*101.60*	*106.4*	*85.60*	*1.98*	*20.6*	*39.69*	*4.6*
75		*B224M75HL*	*75.000*											*4.1*
	3 3/16	**B22451HL**		3.1875										14.4
	3 7/16	**B22455HL**		3.4375	5.9045	2.313	5 11/32	4 3/8	5	3.975	.125	27/32	1 23/32	12.8
	3 1/2	**B22456HL**		3.5000										12.4
80		*B224M80HL*	*80.000*		*149.974*	*58.75*	*135.7*	*111.12*	*127.0*	*100.97*	*3.18*	*21.4*	*43.66*	*6.6*
85		*B224M85HL*	*85.000*											*6.1*
	3 11/16	**B22459HL**		3.6875										25.2
	3 15/16	**B22463HL**		3.9375	7.0856	2.750	6 3/8	5 1/16	5 29/32	4.561	.125	31/32	2	23.2
	4	**B22464HL**		4.0000										22.6
90		*B224M90HL*	*90.000*		*179.974*	*69.85*	*161.9*	*128.59*	*150.0*	*115.85*	*3.18*	*24.6*	*50.80*	*12.3*
100		*B224M100HL*	*100.000*											*10.5*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearings for expansion units use complete CSE-B22400H per page D-16.
For B22500 replacement bearing 4 3/16" through 5" *(110 mm through 125 mm)*, see page D-40.
* Includes bearing, two floating labyrinth seals, and one spring locking collar.
All bearings available with type E lip seals.
Selection guide, pages D-5, D-6.
Load ratings, pages D-7, D-8.
Additional information, page D-68.

‡ Use shims, threaded cover, or spacer ring to provide for adjustment. Housing must allow clearance for this adjustment on dimension C.

Series B22500
Spherical Roller Bearing Units

Series B22500 double collar mounted spherical roller bearing units will support shafts carrying substantial radial or combination radial and thrust loads. These units are adaptable for conveyors, elevators, general industrial machinery, heavier duty fans and blowers, power transmission applications, ditchers, trenchers, pavers and other applications. They differ from series B22400 units in that they have two locking collars and the pillow blocks have higher backing and longer bolt centers. Series B22500 units are easy to mount, sealed, prelubricated and do not require bearing adjustment during mounting.



① Two spring locking collars lock inner ring securely to shaft.

② Choice of two seals, floating labyrinth Type H, and spring-loaded lip Type E.

③ Extra long inner ring for high stability and load support.

④ Self-aligning double row spherical roller bearing adjusts ±2° to allow for alignment variations between shaft and supporting structure.

⑤ Double contoured retainer pockets assure accurate roller guidance and positive roller control.

⑥ Sturdy, compact one-piece high-test cast iron housing.

⑦ Slotted bolt holes in pillow block bases facilitate mounting; bottom of base is machined.

Spherical Roller Bearings

Series B22500 self-aligning double row spherical roller bearings have extra long inner rings, high LDN values and are designed to distribute the load over the symmetrical rollers, assuring positive tracking and smooth operation. The large roller complement provides high capacity for radial or combined radial-thrust loads.

Osculation clearance at the ends of the rollers compensates for shock loads and prevents destructive edge loading. These precision bearings with double contoured retainer pockets are designed to meet a broad range of application requirements.

Spring Locking Collars

The two spring locking collar design provides a secure grip of the extra long inner ring bearing to the shaft. The four set screws extend through the inner ring of the bearing and lock firmly onto the shaft. Installation is fast and simple. Correctly tightening the four set screws produces elastic strain in the spring locking collars resulting in a continuous pressure on the set screw threads and providing a positive lock.

Seals

Two standard sealing systems are available. . .each offering maximum protection for the bearing.

Type H floating labyrinth seals have multiple self-centering rings held securely in a steel carrier. Type H seals are normally furnished.

Type E spring-loaded lip seals utilize a spring to provide uniform pressure for keeping the sealing lip in contact with the inner ring. Type E seals are normally used for liquid splash environments.

Seals are interchangeable and are designed for grease lubrication.

TYPE H SEAL

TYPE E SEAL

One-piece Cast Iron Housings

Compact one-piece housings provide for strength and load support. Scientifically contoured housing design provides superior rigidity. Pillow blocks have two or four slotted bolt holes with ample space provided for drilling dowel pin holes. Cartridge units have steel housings and are finished to precision tolerances. Pillow blocks and cartridge units are available for fixed or expansion operation.

Series B22500
Spherical Roller Bearing Units

Pillow Blocks, cast iron

P-B22500H, PE-B22500H, EP-B22500H*, EPE-B22500H*
P-B22500FH, PE-B22500FH, EP-B22500FH*, EPE-B22500FH*

Self-aligning 2-bolt base pillow blocks for shaft sizes 1 7/16" through 2 15/16", and 4-bolt base pillow blocks for shaft sizes 1 15/16" through 5". Metric bores of *110, 115,* and *125 mm* available. Bearings have extra long inner ring and two spring locking collars. Units are available for fixed or expansion mounting.

Load ratings on pages D-33 and D-34.
Dimensions on page D-35.
Additional information on page D-68.

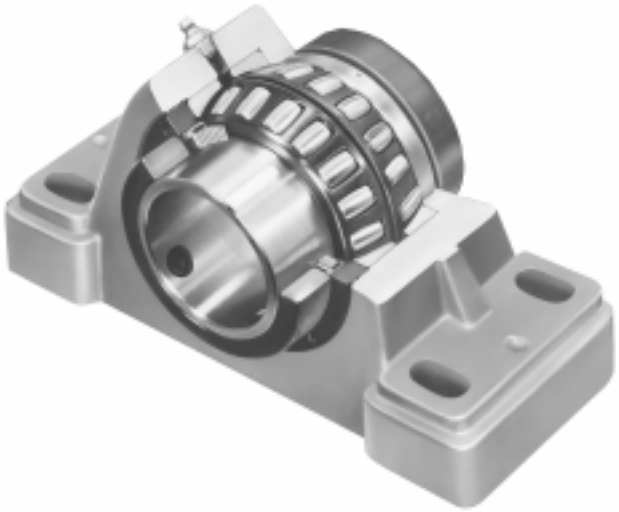
***Self-aligning Type E Interchange**

Pillow Blocks, cast steel

PK-B22500FH, PKE-B22500FH

Self-aligning 4-bolt base pillow blocks. Cast steel housing for shaft sizes 4 3/16" through 5" and *110, 115,* and *125 mm*. Bearings have extra long inner ring and two spring locking collars. Units are available for fixed or expansion mounting.

Load ratings on pages D-33 and D-34.
Dimensions on page D-14.
Additional information on page D-68.



Flanged Units, cast iron

EF-B22500H*

Self-aligning flanged units for shaft sizes, 1 7/16" through 4". Bearings have extra long inner ring and two spring locking collars.

Load ratings on pages D-33 and D-34.
Dimensions on page D-37.
Additional information on page D-68.

***Self-aligning Type E Interchange**

Cartridge Units, steel

CSE-B22500H

Self-aligning cartridge units for shaft sizes 1 7/16" through 5" and *110*, *115*, and *125 mm*. Bearings have extra long inner ring and two spring locking collars. Units are available for fixed or expansion mounting.

Load ratings on pages D-33 and D-34.
Dimensions on page D-39.
Additional information on page D-68.

Takeups, cast iron

DSH-B22500H

Self-aligning takeups for shaft sizes 1 15/16" through 3 15/16". Bearings have extra long inner ring and two spring locking collars and are mounted in a one-piece cast iron housing. Takeups have extra heavy welded steel adjustable type frames.

Load ratings on pages D-33 and D-34.
Dimensions on page D-38.
Additional information on page D-68.

Replacement Bearings

B22500HL

Self-aligning double-row spherical roller bearing with extra long inner ring and two spring locking collars for shaft sizes 1 7/16" through 5" and *110, 115,* and *125 mm*.

Load ratings on pages D-33 and D-34.
Dimensions on page D-40.
Additional information on page D-68.

Selection
Series B22500

To select a bearing, determine the applied radial load, the applied thrust load, the desired Rating Life, and applicable operating conditions. The procedure shown here will aid in selecting a bearing to meet an L_{10} design life. The formulas for calculating life expectancy should be used to determine the Rating Life L_{10} for the bearing selected.

The selection procedures and rating formulas shown here are in agreement with The American Bearing Manufacturers Association Standards and ANSI/ABMA Standards STD 11-1990. Ratings are based on fatigue life. The Rating Life L_{10} or fatigue life at 90% reliability is the usual basis for bearing selection.

For radial load applications only, Table 3, page D-34, can be used to select a bearing or to determine L_{10} life expectancy.

To assure a satisfactory bearing application, fitting practice, mounting, lubrication, sealing, static rating, housing strength, operating conditions and maintenance must be considered.

Bearing Selection

Step 1 Determine an appropriate L_{10} design life.

Type of service	Operating time, hours per year	Design life, years	L_{10} design life, hours
Heavy seasonal usage	1,400 to 1,600	4-6	8,000
Industrial—8 hour shift	2,000	10	20,000
Industrial—16 hour shift	4,000	10	40,000
Industrial—continuous	8,700	10	80,000 to 100,000

Step 2 Determine a required $\left(\frac{C}{P}\right)$ from Table 1.

Step 3 Calculate the required C and select a roller bearing.

a For radial load only:

$P = F_r$

required C = $\left(\frac{C}{P}\right) P$ using $\left(\frac{C}{P}\right)$ from Step 2

Select a roller bearing from Table 2, page D-33 with a basic load rating C equal to or greater than the required C.

b For combined radial and thrust loads:

Select a trial roller bearing of the desired shaft size from Table 2, page D-33.

Calculate the ratio of thrust load F_a to the radial load F_r.

$\frac{F_a}{F_r}$

Calculate the equivalent radial load P

$$P = XF_r + YF_a$$

if $\frac{F_a}{F_r}$ is equal to or less than e, then $P = X_1F_r + Y_1F_a$

If $\frac{F_a}{F_r}$ is greater than e, then $P = X_2F_r + Y_2F_a$

For values of e, X_1, Y_1, X_2, and Y_2, see Table 2, page D-31.

Calculate the required C

required C = $\left(\frac{C}{P}\right) P$ using $\left(\frac{C}{P}\right)$ from Step 2.

Consult Table 2, page D-33, basic load rating. If a smaller bearing meets, or nearly meets, the required C, its life expectancy can be calculated.

Note: If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.

Selection
Series B22500

symbols for formulas:

C = basic load rating, pounds (or newtons)
C_o = static load rating, pounds (or newtons)
e = a reference value
F_a = thrust load, pounds (or newtons)
F_r = radial load, pounds (or newtons)
L_{10} = rating life, hours
n = speed, revolutions per minute
P = equivalent radial load, pounds (or newtons)
X = radial factor
Y = thrust factor

basic formulas:

$$\left(\frac{C}{P}\right) = \left(\frac{L_{10} \times n \times 60}{1{,}000{,}000}\right)^{3/10}$$

$$L_{10} = \frac{\left(\frac{C}{P}\right)^{10/3} \times 1{,}000{,}000}{n \times 60}$$

Table 1 • Relation of L_{10} life and speed to $\left(\frac{C}{P}\right)$

Bearing life, hours L_{10}	$\left(\frac{C}{P}\right)$ ratio								
	Speed, n								
	50	100	200	300	400	500	600	700	800
3000	1.93	2.38	2.93	3.31	3.61	3.86	4.07	4.27	4.44
4000	2.11	2.59	3.19	3.61	3.93	4.20	4.44	4.65	4.84
5000	2.25	2.77	3.42	3.86	4.20	4.50	4.75	4.97	5.18
6000	2.38	2.93	3.61	4.07	4.44	4.75	5.02	5.25	5.47
8000	2.59	3.19	3.93	4.44	4.84	5.18	5.47	5.73	5.96
10000	2.77	3.42	4.20	4.75	5.18	5.54	5.85	6.12	6.37
12000	2.93	3.61	4.44	5.02	5.47	5.85	6.18	6.47	6.73
14000	3.07	3.78	4.65	5.25	5.73	6.12	6.47	6.77	7.05
16000	3.19	3.93	4.84	5.47	5.96	6.37	6.73	7.05	7.34
18000	3.31	4.07	5.02	5.66	6.18	6.60	6.97	7.30	7.60
20000	3.42	4.20	5.18	5.85	6.37	6.81	7.20	7.54	7.85
25000	3.65	4.50	5.54	6.25	6.81	7.29	7.70	8.06	8.39
30000	3.86	4.75	5.85	6.60	7.20	7.70	8.13	8.51	8.86
35000	4.04	4.97	6.12	6.92	7.54	8.06	8.51	8.92	9.28
40000	4.20	5.18	6.37	7.20	7.85	8.39	8.86	9.28	9.66
45000	4.36	5.36	6.60	7.46	8.13	8.69	9.18	9.61	10.00
50000	4.50	5.54	6.81	7.70	8.39	8.97	9.48	9.92	10.30
60000	4.75	5.85	7.20	8.13	8.86	9.48	10.00	10.50	10.90
70000	4.97	6.12	7.54	8.51	9.28	9.92	10.50	11.00	11.40
80000	5.18	6.37	7.85	8.86	9.66	10.30	10.90	11.40	11.90
90000	5.36	6.60	8.13	9.18	10.00	10.70	11.30	11.80	12.30
100000	5.54	6.81	8.39	9.48	10.30	11.00	11.70	12.20	12.70
150000	6.25	7.70	9.48	10.70	11.70	12.50	13.20	13.80	14.40
200000	6.81	8.39	10.30	11.70	12.70	13.60	14.40	15.00	15.70
	Speed, n								
	900	1000	1200	1500	1800	2400	3000	3600	6000
3000	4.60	4.75	5.02	5.36	5.66	6.18	6.60	6.97	8.13
4000	5.02	5.18	5.47	5.85	6.18	6.73	7.20	7.60	8.86
5000	5.36	5.54	5.85	6.25	6.60	7.20	7.70	8.13	9.48
6000	5.66	5.85	6.18	6.60	6.97	7.60	8.13	8.59	10.00
8000	6.18	6.37	6.73	7.20	7.60	8.29	8.86	9.36	10.90
10000	6.60	6.81	7.20	7.70	8.13	8.86	9.48	10.00	11.70
12000	6.97	7.20	7.60	8.13	8.59	9.36	10.00	10.60	12.30
14000	7.30	7.54	7.96	8.51	8.99	9.80	10.50	11.10	12.90
16000	7.60	7.85	8.29	8.86	9.36	10.20	10.90	11.50	13.40
18000	7.88	8.13	8.59	9.18	9.70	10.60	11.30	11.90	13.90
20000	8.13	8.39	8.86	9.48	10.00	10.90	11.70	12.30	14.40
25000	8.69	8.97	9.48	10.10	10.70	11.70	12.50	13.20	15.40
30000	9.18	9.48	10.00	10.70	11.30	12.30	13.20	13.90	16.20
35000	9.61	9.92	10.50	11.20	11.80	12.90	13.80	14.60	17.00
40000	10.00	10.30	10.90	11.70	12.30	13.40	14.40	15.20	17.70
45000	10.40	10.70	11.30	12.10	12.80	13.90	14.90	15.70	18.30
50000	10.70	11.00	11.70	12.50	13.20	14.40	15.40	16.20	18.90
60000	11.30	11.70	12.30	13.20	13.90	15.20	16.20	17.10	20.00
70000	11.80	12.20	12.90	13.80	14.60	15.90	17.00	17.90	20.90
80000	12.30	12.70	13.40	14.40	15.20	16.50	17.70	18.70	21.80
90000	12.80	13.20	13.90	14.90	15.70	17.10	18.30	19.40	22.60
100000	13.20	13.60	14.40	15.40	16.20	17.70	18.90	20.00	23.30
150000	14.90	15.40	16.20	17.30	18.30	20.00	21.40	22.60	26.30
200000	16.20	16.70	17.70	18.90	20.00	21.80	23.30	24.60	28.70

Life Expectancy

To calculate the Rating Life L_{10} of any selected or trial bearing:

Step 1 Determine the equivalent radial load P.

a For radial load only:

$P = F_r$

b For combined radial and thrust load:

$$P = XF_r + YF_a$$

If $\frac{F_a}{F_r}$ is equal to or less than e, then

$$P = X_1F_r + Y_1F_a$$

If $\frac{F_a}{F_r}$ is greater than e, then

$$P = X_2F_r + Y_2F_a$$

For values of e, X_1, Y_1, X_2, and Y_2, see the bearing rating Table 2, page D-33.

Step 2 Calculate the ratio of the basic load rating C to the equivalent radial load.

$\frac{C}{P}$

Step 3 Approximate the bearing life from Table 1.

Life Adjustment

The Rating Life, L_{10}, may be modified for some applications in accordance with the formula

$$L'_n = a_1a_2a_3L_{10}$$

where L'_n = Adjusted life for (100-n) % reliablility,
a_1 = Life adjustment factor for reliability
a_2 = Life adjustment factor for material and processing
a_3 = Life adjustment factor for operating conditions.

For most normal applications, all factors will be taken as 1, and the Rating Life used as the selection basis or life estimate. In addition, as long as standard catalog bearings are used, a_2 will be normally set equal to one. The factor a_3 covers such things as lubrication, misalignment, and temperature. Some conditions that could yield a_3 significantly different than unity include speeds less than 20000 DN or greater than 200000 DN, temperatures below –40°F (–40°C) or above 275°F (135°C). For other possible conditions, as well as additional information on life adjustment factors, consult Link-Belt Bearing Division, Rexnord Corp.

Load Ratings
Series B22500

Table 2 • Load ratings and speed limits

Shaft diameter		Bearing size number	C_0 Static load rating		C Basic load rating		Approximate speed limit RPM ●	e	$\frac{F_a}{F_r} \leqq e$		$\frac{F_a}{F_r} > e$	
mm	inches		*newtons*	pounds	*newtons*	pounds	H and E seals		X_1	Y_1	X_2	Y_2
	1 7/16	B22523	*93 200*	20900	*64 900*	14600	2750	.44	1.00	1.54	.67	2.29
	1 11/16	B22527	*127 700*	28700	*89 800*	20200	2350	.45	1.00	1.51	.67	2.25
	1 15/16	B22531	*147 700*	33200	*94 300*	21200	2150	.40	1.00	1.68	.67	2.50
	2 2 3/16	B22532 B22535	*197 500*	44400	*117 400*	26400	1950	.40	1.00	1.68	.67	2.50
	2 7/16	B22539	*238 000*	53500	*139 700*	31400	1750	.38	1.00	1.80	.67	2.68
	2 11/16 2 15/16	B22543 B22547	*318 000*	71500	*185 900*	41800	1500	.38	1.00	1.79	.67	2.67
	3 7/16	B22555	*403 400*	90700	*226 800*	51000	1250	.38	1.00	1.77	.67	2.64
	3 15/16 4	B22563 B22564	*609 400*	137000	*351 800*	79100	1100	.36	1.00	1.88	.67	2.79
	4 3/16 4 7/16 4 1/2 *110* *115*	B22567 B22571 B22572 *B225M110* *B225M115*	*790 200*	178000	*419 400*	94300	1000	.38	1.00	1.80	.67	2.68
	4 15/16 5 *125*	B22579 B22580 *B225M125*	*944 700*	212000	*520 400*	117000	900	.37	1.00	1.83	.67	2.72

If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.

* Based on grease lubrication and moderate load.

Additional information, page D-68.

Load Ratings
Series B22500

Table 3 • Radial load ratings in pounds at various RPM for appropriate L_{10} life hours

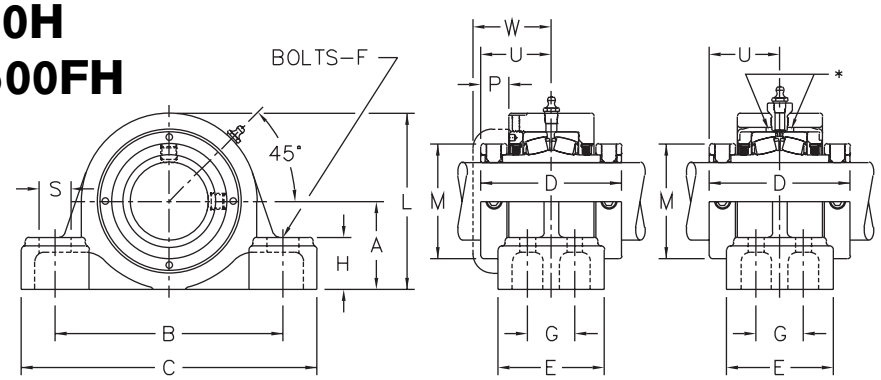
Shaft diameter mm	Shaft diameter inches	Bearing size number	L_{10} Minimum life, hours	Radial load ratings, pounds — Speed, RPM 50	100	200	300	500	700	900	1000	1200	1500	1800	2000	2500
	1 7/16	B22523	8000				3290	2820	2540	2360	2290	2170	2020	1920	1860	1740
			20000		3470	2820	2500	2140	1930	1800	1740	1640	1540	1450	1410	1320
			40000	3470	2820	2290	2020	1740	1570	1450	1410	1330	1250	1180	1140	1070
			100000	2630	2140	1740	1540	1320	1200	1100	1070	1010	950	900	872	815
	1 11/16	B22527	8000				4540	3900	3520	3270	3170	3000	2800	2650	2570	
			20000		4800	3900	3450	2960	2680	2480	2400	2280	2130	2010	1950	
			40000	4800	3900	3170	2800	2400	2180	2010	1950	1850	1730	1630	1590	
			100000	3640	2960	2400	2130	1820	1650	1530	1490	1400	1310	1240	1200	
	1 15/16	B22531	8000				4770	4100	3700	3430	3320	3140	2940	2790	2700	
			20000		5040	4100	3620	3110	2810	2600	2520	2390	2230	2110	2050	
			40000	5040	4100	3320	2940	2520	2280	2110	2050	1940	1810	1720	1670	
			100000	3830	3110	2520	2230	1910	1730	1600	1550	1480	1380	1300	1270	
	2	B22532	8000				5940	5100	4600	4280	4140	3920	3670	3470		
	2 3/16	B22535	20000		6280	5100	4510	3870	3500	3240	3140	2980	2790	2630		
			40000	6280	5100	4140	3670	3140	2840	2630	2550	2410	2260	2140		
			100000	4770	3870	3140	2790	2390	2160	2000	1940	1830	1710	1620		
	2 7/16	B22539	8000				7070	6070	5480	5090	4920	4660	4360			
			20000		7470	6070	5370	4600	4170	3860	3740	3540	3310			
			40000	7470	6070	4920	4360	3740	3380	3130	3030	2880	2690			
			100000	5670	4600	3740	3310	2840	2570	2380	2300	2190	2040			
	2 11/16	B22543	8000				9410	8070	7300	6770	6550	6200	5800			
	2 15/16	B22547	20000		9940	8070	7150	6130	5540	5140	4980	4710	4410			
			40000	9940	8070	6550	5800	4980	4500	4180	4040	3830	3580			
			100000	7550	6130	4980	4410	3780	3420	3170	3070	2910	2720			
	3 7/16	B22555	8000				11400	9850	8900	8250	8000	7580				
			20000		12100	9850	8720	7480	6770	6270	6080	5750				
			40000	12100	9850	8000	7090	6080	5500	5100	4930	4670				
			100000	9210	7480	6080	5380	4610	4170	3870	3750	3550				
	3 15/16	B22563	8000				17800	15200	13800	12800	12400					
	4	B22564	20000		18800	15200	13500	11600	10400	9730	9420					
			40000	18800	15200	12400	11000	9420	8520	7900	7650					
			100000	14200	11600	9420	8340	7160	6470	6000	5810					
	4 3/16	B22567	8000				21200	18200	16400	15200	14800					
	4 7/16	B22571	20000		22400	18200	16100	13800	12500	11600	11200					
	4 1/2	B22572	40000	22400	18200	14800	13100	11200	10100	9420	9120					
110		*B225M110*	100000	17000	13800	11200	9950	8530	7710	7150	6930					
115		*B225M115*														
	4 5/16	B22579	8000				26300	22500	20400	18900						
	5	B22580	20000		27800	22500	20000	17100	15500	14300						
125		*B225M125*	40000	27800	22500	18300	16200	13900	12600	11700						
			100000	21100	17100	13900	12300	10500	9580	8880						

If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.

Spherical Roller Bearing Pillow Blocks

P-B22500H, PE-B22500H
P-B22500FH, PE-B22500FH

Cast Iron Housing
2- or 4-Bolt Base
Fixed or Expansion
Self-aligning
Two Spring Locking Collars
Factory Adjusted and Sealed



Fixed **Expansion**

Dimensions (inches/*mm*)

Shaft dia.		Pillow block number △		A †	B	C	D	E	F Bolts	G	H	L	M	P	S	U	W ◆	Unit wt. (lbs./kg.)
mm	inches	Fixed	Expansion															
2-bolt base																		
	1 7/16	**P-B22523H**	**PE-B22523H**	2 1/8	5 7/8	7 7/8	3 9/16	2 1/2	1/2	. . .	1 3/8	4 1/8	2 1/2	1 1/16	7/8	1 25/32	2 3/16	10
				53.98	*149.2*	*200.0*	*90.49*	*63.5*	*12*	. . .	*34.9*	*104.8*	*63.5*	*17.5*	*22.2*	*45.2*	*55.6*	–
	1 11/16	**P-B22527H**	**PE-B22527H**	2 5/16	6 1/2	8 9/16	3 13/16	2 13/16	1/2	. . .	1 1/2	4 19/32	2 3/4	23/32	7/8	1 29/32	2 1/4	12
				58.74	*165.1*	*217.5*	*96.84*	*71.4*	*12*	. . .	*38.1*	*116.7*	*69.8*	*18.2*	*22.2*	*48.4*	*57.2*	–
	1 15/16	**P-B22531H**	**PE-B22531H**	2 1/2	7	9 1/4	3 13/16	2 7/8	5/8	. . .	1 11/16	4 7/8	2 15/16	23/32	1 1/8	1 29/32	2 9/32	14
				63.50	*177.8*	*235.0*	*96.84*	*73.0*	*16*	. . .	*42.9*	*123.8*	*74.6*	*18.2*	*28.6*	*48.4*	*57.9*	–
	2	**P-B22532H**	**PE-B22532H**	2 3/4	7 1/2	9 15/16	4 1/8	3 1/8	5/8	. . .	2	5 15/32	3 3/8	25/32	1 1/8	2 1/16	2 7/16	21
	2 3/16	**P-B22535H**	**PE-B22535H**	*69.85*	*190.5*	*252.4*	*104.78*	*79.4*	*16*	. . .	*50.8*	*138.9*	*85.7*	*19.8*	*28.6*	*52.4*	*61.9*	20
	2 7/16	**P-B22539H**	**PE-B22539H**	3	8 1/4	10 3/4	4 3/8	3 3/8	3/4	. . .	2 1/8	5 7/8	3 5/8	13/16	1 1/4	2 3/16	2 9/16	24
				76.20	*209.6*	*273.0*	*111.12*	*85.7*	*20*	. . .	*54.0*	*149.2*	*92.1*	*20.6*	*31.8*	*55.6*	*65.1*	–
	2 11/16	**P-B22543H**	**PE-B22543H**	3 1/2	9 3/4	12 7/8	4 7/8	3 7/8	7/8	. . .	2 5/16	6 15/16	4 3/16	29/32	1 5/8	2 7/16	2 25/32	39
	2 15/16	**P-B22547H**	**PE-B22547H**	*88.90*	*247.6*	*327.0*	*123.82*	*98.4*	*24*	. . .	*58.7*	*176.2*	*106.4*	*23.0*	*41.3*	*61.9*	*70.6*	37
4-bolt Base																		
	1 15/16	**P-B22531FH**	**PE-B22531FH**	2 1/2	7	9	3 13/16	3 13/16	1/2	2 1/4	1 11/16	4 7/8	2 15/16	23/32	7/8	1 29/32	2 9/32	16
				63.50	*177.8*	*228.6*	*96.84*	*96.8*	*12*	*57.2*	*42.9*	*123.8*	*74.6*	*18.2*	*22.2*	*48.4*	*57.9*	–
	2	**P-B22532FH**	**PE-B22532FH**	2 3/4	7 1/2	9 15/16	4 1/8	4	5/8	2 1/4	2	5 15/32	3 3/8	25/32	1 1/8	2 1/16	2 7/16	22
	2 3/16	**P-B22535FH**	**PE-B22535FH**	*69.85*	*190.5*	*252.4*	*104.78*	*101.6*	*16*	*57.2*	*50.8*	*138.9*	*85.7*	*19.8*	*28.6*	*52.4*	*61.9*	22
	2 7/16	**P-B22539FH**	**PE-B22539FH**	3	8 1/4	10 5/8	4 3/8	4 3/8	5/8	2 5/8	2 1/8	5 7/8	3 5/8	13/16	1 1/8	2 3/16	2 9/16	26
				76.20	*209.6*	*269.9*	*111.12*	*111.1*	*16*	*66.7*	*54.0*	*149.2*	*92.1*	*20.6*	*28.6*	*55.6*	*65.1*	—
	2 11/16	**P-B22543FH**	**PE-B22543FH**	3 1/2	9 3/4	12 5/8	4 7/8	4 3/4	3/4	2 3/4	2 5/16	6 15/16	4 3/16	27/32	1 1/2	2 7/16	2 25/32	38
	2 15/16	**P-B22547FH**	**PE-B22547FH**	*88.90*	*247.6*	*320.7*	*123.82*	*120.6*	*20*	*69.8*	*58.7*	*176.2*	*106.4*	*21.4*	*38.1*	*61.9*	*70.6*	36
	3 7/16	**P-B22555FH**	**PE-B22555FH**	4	11 1/2	14 1/4	5 5/16	5	3/4	3	2 1/2	7 31/32	5	15/16	1 1/2	2 21/32	3	56
				101.60	*292.1*	*362.0*	*134.94*	*127.0*	*20*	*76.2*	*63.5*	*202.4*	*127.0*	*23.8*	*38.1*	*67.5*	*76.2*	–
	3 15/16	**P-B22563FH**	**PE-B22563FH**	4 7/16	12 1/4	15 5/8	6 1/8	5 5/8	7/8	3 3/8	2 7/8	8 13/16	5 29/32	1 1/16	1 3/4	3 1/16	3 7/16	76
	4	**P-B22564FH**	**PE-B22564FH**	*112.71*	*311.2*	*396.9*	*155.58*	*142.9*	*24*	*85.7*	*73.0*	*223.8*	*150.0*	*27.0*	*44.4*	*77.8*	*87.3*	76
	4 3/16	**P-B22567FH▲**	**PE-B22567FH▲**															92
	4 7/16	**P-B22571FH▲**	**PE-B22571FH▲**	4 3/4	13 1/2	16 1/2	6 3/4	4 3/4	3/4	2 1/2	2 3/4	9 3/8	6 1/8	1 1/8	1 3/8	3 3/8	3 3/4	88
	4 1/2	**P-B22572FH▲**	**PE-B22572FH▲**															87
110		*P-B225M110FH▲*	*PE-B225M110FH▲*	*120.65*	*342.9*	*419.1*	*171.45*	*120.6*	*20*	*63.5*	*69.8*	*238.1*	*155.6*	*28.6*	*34.9*	*85.7*	*95.2*	*40.7*
115		*P-B225M115FH▲*	*PE-B225M115FH▲*															*39.5*
	4 15/16	**P-B22579FH▲**	**PE-B22579FH▲**	5 1/2	15 1/2	18 1/2	7 1/4	5 3/8	7/8	2 3/4	3	10 7/8	6 7/8	1 7/32	1 1/2	3 5/8	4	129
	5	**P-B22580FH▲**	**PE-B22580FH▲**															128
125		*P-B225M125FH▲*	*PE-B225M125FH▲*	*139.70*	*393.7*	*469.9*	*184.15*	*136.5*	*24*	*69.8*	*76.2*	*276.2*	*174.6*	*31.0*	*38.1*	*92.1*	*101.6*	*58.1*

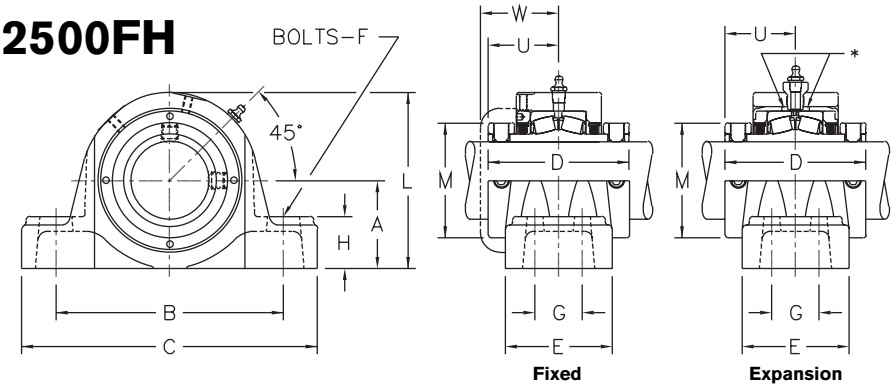
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-64, D-65.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, ±.005" *(±0.13 mm)*.
▲ Also available with cast steel housings. See page D-14.
△ LHD sliding base takeup can be drilled for P-B22500H pillow blocks, see page D-22.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
◆ Width dimension for closed end unit.
Selection guide, pages D-31, D-32.
Load ratings, pages D-33, D-34.
Additional information, page D-68.

Spherical Roller Bearing Pillow Blocks

EP-B22500H, EPE-B22500H
EP-B22500FH, EPE-B22500FH

Cast Iron Housing
2 or 4-Bolt Base
Fixed or Expansion
Self-aligning
Two Spring Locking Collars
Factory Adjusted and Sealed

Self-Aligning Type E Interchange



Dimensions (inches/*mm*)

Shaft dia. inches	Pillow block number △ Fixed	Pillow block number △ Expansion	A †	B min.	B max.	C	D	E	F	G	H	L	M	U	W ◆	Unit wt.
2-bolt base																
1 7/16	EP-B22523H	EPE-B22523H	1 7/8 *47.62*	4 3/4 *120.6*	6 *152.4*	7 3/8 *187.3*	3 9/16 *90.49*	2 1/4 *57.2*	1/2 *12*	... ...	1 1/8 *28.6*	3 7/8 *98.4*	2 1/2 *63.5*	1 25/32 *45.2*	2 3/16 *55.6*	8 –
1 11/16	EP-B22527H	EPE-B22527H	2 1/8 *53.98*	5 1/2 *139.7*	6 1/2 *165.1*	7 7/8 *200.0*	3 13/16 *96.84*	2 1/2 *63.5*	1/2 *12*	... ...	1 1/4 *31.8*	4 3/8 *111.1*	2 3/4 *69.8*	1 29/32 *48.4*	2 1/4 *57.2*	12 –
1 15/16	**EP-B22531H**	EPE-B22531H	2 1/4 *57.15*	6 1/16 *154.0*	7 1/4 *184.2*	8 7/8 *225.4*	3 13/16 *96.84*	2 1/2 *63.5*	5/8 *16*	... ...	1 5/16 *33.3*	4 9/16 *115.9*	2 15/16 *74.6*	1 29/32 *48.4*	2 9/32 *57.9*	13 –
2 3/16	EP-B22535H	EPE-B22535H	2 1/2 *63.50*	6 9/16 *166.7*	8 *203.2*	9 5/8 *244.5*	4 1/8 *104.78*	2 9/16 *65.1*	5/8 *16*	... ...	1 1/2 *38.1*	5 *127.0*	3 3/8 *85.7*	2 1/16 *52.4*	2 7/16 *61.9*	16 —
2 7/16	EP-B22539H	EPE-B22539H	2 3/4 *69.85*	6 15/16 *176.2*	8 3/4 *222.2*	10 1/2 *266.7*	4 3/8 *111.12*	2 11/16 *68.3*	5/8 *16*	... ...	1 5/8 *41.3*	5 1/2 *139.7*	3 5/8 *92.1*	2 3/16 *55.6*	2 9/16 *65.1*	18 –
2 11/16 2 15/16	EP-B22543H EP-B22547H	EPE-B22543H EPE-B22547H	3 1/8 *79.38*	7 13/16 *198.4*	9 3/4 *247.6*	11 11/16 *296.9*	4 7/8 *123.82*	3 13/16 *96.8*	3/4 *20*	... ...	1 7/8 *47.6*	6 5/16 *160.3*	4 3/16 *106.4*	2 7/16 *61.9*	2 25/32 *70.6*	31 29 –
3 7/16	EP-B22555H	EPE-B22555H	3 3/4 *96.25*	9 5/16 *236.5*	11 5/16 *287.3*	13 13/16 *350.8*	5 5/16 *134.9*	3 1/2 *88.9*	7/8 *24*	... ...	2 1/4 *57.2*	7 1/2 *190.5*	5 *127.0*	2 21/32 *67.5*	3 *76.2*	45 –
4-bolt base																
2 7/16	EP-B22539FH	EPE-B22539FH	2 3/4 *69.85*	6 15/16 *176.2*	8 3/4 *222.2*	10 1/2 *266.7*	4 3/8 *111.12*	3 5/8 *92.1*	5/8 *16*	1 7/8 *47.6*	1 5/8 *41.3*	5 1/2 *139.7*	3 5/8 *92.1*	2 3/16 *55.6*	2 9/16 *65.1*	21 –
2 11/16 2 15/16	EP-B22543FH EP-B22547FH	EPE-B22543FH EPE-B22547FH	3 1/8 *79.38*	7 13/16 *198.4*	9 7/8 *247.6*	11 13/16 *300.0*	4 7/8 *123.82*	4 1/4 *108.0*	5/8 *16*	2 1/8 *54.0*	1 7/8 *47.6*	6 5/16 *160.3*	4 3/16 *106.4*	2 7/16 *61.9*	2 25/32 *70.6*	33 31 –
3 7/16	EP-B22555FH	EPE-B22555FH	3 3/4 *96.25*	9 5/16 *236.5*	11 7/16 *290.5*	13 13/16 *350.8*	5 5/16 *134.94*	4 3/4 *120.6*	3/4 *20*	2 3/8 *60.3*	2 1/4 *57.2*	7 1/2 *190.5*	5 *127.0*	2 21/32 *67.5*	3 *76.2*	48 –
3 15/16 4	EP-B22563FH EP-B22564FH	EPE-B22563FH EPE-B22564FH	4 1/4 *107.95*	11 7/8 *301.6*	13 *330.2*	15 1/4 *387.4*	6 1/8 *155.58*	4 1/2 *114.3*	3/4 *20*	2 1/4 *57.2*	2 5/8 *66.7*	8 1/2 *215.9*	5 29/32 *150.0*	3 1/16 *77.8*	3 7/16 *87.3*	71 70 –
4 3/16 4 7/16 4 1/2	P-B22567FH▲ **P-B22571FH▲** **P-B22572FH▲**	PE-B22567FH▲ **PE-B22571FH▲** PE-B22572FH▲	4 3/4 *120.65*	12 3/4 *323.9*	14 1/8 *358.8*	16 1/2 *419.1*	6 3/4 *171.45*	4 3/4 *120.6*	3/4 *20*	2 1/2 *63.5*	2 3/4 *69.8*	9 3/8 *238.1*	6 1/8 *155.6*	3 3/8 *85.7*	3 3/4 *95.2*	92 88 87
4 15/16 5	**P-B22579FH▲** **P-B22580FH▲**	**PE-B22579FH▲** **PE-B22580FH▲**	5 1/2 *139.70*	14 5/16 *363.6*	16 1/8 *409.6*	18 1/2 *469.9*	7 1/4 *184.15*	5 3/8 *136.5*	7/8 *24*	2 3/4 *69.8*	3 *76.2*	10 7/8 *276.2*	6 7/8 *174.6*	3 5/8 *92.1*	4 *101.6*	129 128

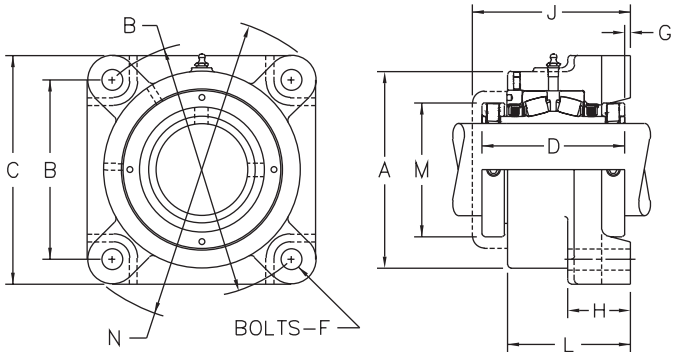
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-64, D-65.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
▲ Also available with cast steel housings. See page D-14.
△ LHD sliding base takeup can be drilled for EP-B22500H pillow blocks, see page D-22.
† Tolerance, ±.005" *(±0.13 mm)*.
◆ Width dimension for closed end unit.
Selection guide, pages D-31, D-32.
Load ratings, pages D-33, D-34.
Additional information, page D-68.

Spherical Roller Bearing Flanged Units

EF-B22500H

Cast Iron Housing
Padded Flange
4-Bolt Mounting
Self-aligning
Two Spring Locking Collars
Factory Adjusted and Sealed

Self-Aligning Type E Interchange



Dimensions (inches/*mm*)

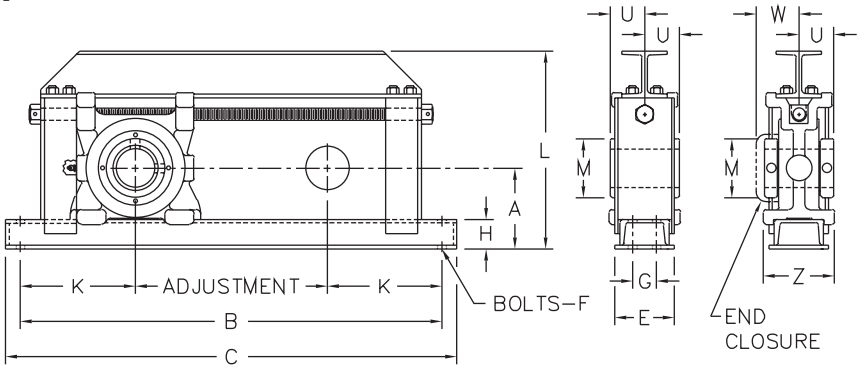
Shaft dia. inches	Flanged unit number	A	B	C	D	F	G	H	J ◆	L	M	N	Unit wt.
1 7/16	EF-B22523H	3 3/4 *95.2*	3 1/2 *88.9*	4 5/8 *117.5*	3 9/16 *90.49*	1/2 *12*	1/16 *1.6*	1 1/4 *31.8*	4 1/32 *102.4*	2 31/32 *75.4*	2 1/2 *63.5*	6 1/16 *154.0*	8 –
1 11/16	EF-B22527H	4 1/4 *108.0*	4 1/8 *104.8*	5 1/2 *139.7*	3 13/16 *96.84*	1/2 *12*	1/8 *3.2*	1 3/8 *34.9*	4 9/32 *108.7*	3 9/32 *83.3*	2 3/4 *69.8*	7 7/32 *183.4*	11 –
1 15/16	EF-B22531H	4 1/2 *114.3*	4 3/8 *111.1*	5 1/2 *139.7*	3 13/16 *96.84*	1/2 *12*	1/8 *3.2*	1 7/16 *36.5*	4 5/16 *109.5*	3 9/32 *83.3*	2 15/16 *74.6*	7 5/16 *185.7*	12 –
2 3/16	EF-B22535H	5 *127.0*	4 7/8 *123.8*	6 1/4 *158.8*	4 1/8 *104.78*	5/8 *16*	1/8 *3.2*	1 1/2 *38.1*	4 5/8 *117.5*	3 15/32 *88.1*	3 3/8 *85.7*	8 9/32 *210.3*	16 –
2 7/16	**EF-B22539H**	5 3/8 *136.5*	5 3/8 *136.5*	6 3/4 *171.4*	4 3/8 *111.12*	5/8 *16*	3/16 *4.8*	1 11/16 *42.9*	4 15/16 *125.4*	3 23/32 *94.5*	3 5/8 *92.1*	8 31/32 *227.8*	18 –
2 11/16 2 15/16	EF-B22543H EF-B22547H	6 1/4 *158.8*	6 *152.4*	7 5/8 *193.7*	4 7/8 *123.82*	3/4 *20*	3/16 *4.8*	1 13/16 *46.0*	5 13/16 *137.3*	4 7/32 *107.3*	4 3/16 *106.4*	10 1/8 *275.2*	28 26 –
3 7/16	EF-B22555H	7 3/8 *187.3*	7 *177.8*	8 3/4 *222.2*	5 5/16 *134.94*	3/4 *20*	3/32 *2.4*	1 15/16 *49.2*	5 3/4 *146.0*	4 15/32 *113.5*	5 *127.0*	11 21/32 *296.1*	44 –
3 15/16 4	EF-B22563H EF-B22564H	8 3/8 *212.7*	7 3/4 *196.8*	9 3/4 *247.6*	6 1/8 *155.58*	7/8 *24*	3/32 *2.4*	2 3/16 *55.6*	6 5/8 *168.3*	5 3/16 *131.8*	5 29/32 *150.0*	12 31/32 *329.4*	60 59 –

Please consult for availability.
For replacement bearing numbers, see pages D-64, D-65.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
◆ Width dimension for closed end unit.
Selection guide, pages D-31, D-32.
Load ratings, pages D-33, D-34.
Additional information, page D-68.

Spherical Roller Bearing Takeups

DSH-B22500H

Extra-Strength Welded Steel Frame
Cast Iron Bearing Housing
Self-aligning
Two Spring Locking Collars
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

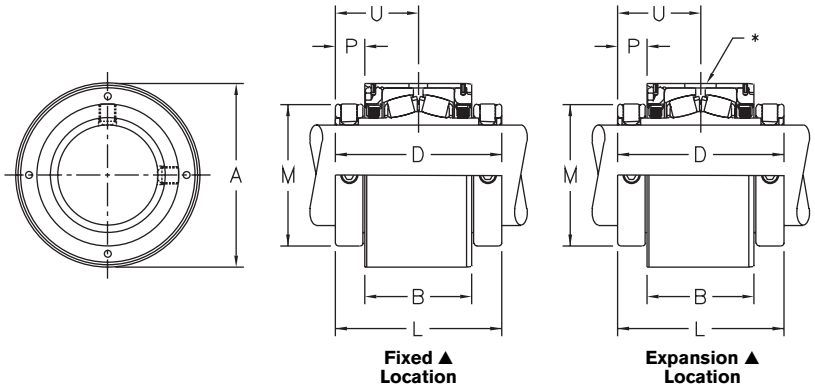
Shaft dia. inches	Adjustment	Takeup number	A	B	C	E	F Bolts	G	H	K	L	M	U	W ◆	Z	Unit wt. (lbs.)
1 15/16	12 *304.8*	**DSH-B22531H-12**	3 15/16 *100.0*	27½ *698.5*	29½ *749.3*	3½ *88.9*	⅝ *16*	. . . . .	1¾ *44.4*	7¾ *196.8*	10⅝ *269.9*	2 15/16 *74.6*	1 29/32 *48.4*	2 9/32 *57.9*	4⅛ *104.8*	78
	18 *457.2*	**DSH-B22531H-18**		33½ *850.9*	35½ *901.7*											88
	24 *609.6*	**DSH-B22531H-24**		39½ *1003.3*	41½ *1054.1*											98
2 3/16	12 *304.8*	**DSH-B22535H-12**	4 7/16 *112.7*	27½ *698.5*	29½ *749.3*	4½ *114.3*	⅝ *16*	. . . . .	2 *50.8*	7¾ *196.8*	11¼ *285.8*	3⅜ *85.7*	2 1/16 *52.4*	2 7/16 *61.9*	5¼ *133.4*	83
	18 *457.2*	**DSH-B22535H-18**		33½ *850.9*	35½ *901.7*											93
	24 *609.6*	**DSH-B22535H-24**		39½ *1003.3*	41½ *1054.1*											103
2 7/16	12 *304.8*	**DSH-B22539H-12**	4⅝ *117.5*	28½ *723.9*	30½ *774.7*	4½ *114.3*	¾ *20*	. . . . .	2 *50.8*	8¼ *209.6*	12 13/16 *325.4*	3⅝ *92.1*	2 3/16 *55.6*	2 9/16 *65.1*	5¼ *133.4*	105
	18 *457.2*	**DSH-B22539H-18**		34½ *876.3*	36½ *927.1*											118
	24 *609.6*	**DSH-B22539H-24**		40½ *1028.7*	42½ *1079.5*											132
2 15/16	12 *304.8*	**DSH-B22547H-12**	5⅛ *130.2*	30½ *774.7*	32½ *825.5*	4½ *114.3*	⅝ *16*	2 *50.8*	2 *50.8*	9¼ *235.0*	13 15/16 *354.0*	4 3/16 *106.4*	2 7/16 *61.9*	2 25/32 *70.6*	5¼ *133.4*	125
	18 *457.2*	**DSH-B22547H-18**		36½ *927.1*	38½ *977.9*											140
	24 *609.6*	**DSH-B22547H-24**		42½ *1079.5*	44½ *1130.3*											155
	30 *762.0*	**DSH-B22547H-30**		48½ *1231.9*	50½ *1282.7*											170
	36 *914.4*	DSH-B22547H-36		54½ *1384.3*	56½ *1435.1*											185
3 7/16	12 *304.8*	**DSH-B22555H-12**	5⅝ *142.9*	32 *812.8*	34¼ *870.0*	4½ *114.3*	¾ *20*	2 *50.8*	2 *50.8*	10 *254.0*	15 1/16 *382.6*	5 *127.0*	2 21/32 *67.5*	3 *76.2*	5⅝ *142.9*	146
	18 *457.2*	**DSH-B22555H-18**		38 *965.2*	40¼ *1022.4*											162
	24 *609.6*	**DSH-B22555H-24**		44 *1117.6*	46¼ *1174.8*											178
	30 *762.0*	**DSH-B22555H-30**		50 *1270.0*	52¼ *1327.2*											194
	36 *914.4*	DSH-B22555H-36		56 *1422.4*	58¼ *1479.6*											210
3 15/16	12 *304.8*	**DSH-B22563H-12**	7 *177.8*	36 *914.4*	38½ *977.9*	5½ *139.7*	¾ *20*	2½ *63x5*	2¼ *57.2*	12 *304.8*	17 1/16 *433.4*	5 29/32 *150.0*	3 1/16 *77.8*	3 7/16 *87.3*	6⅞ *174.6*	260
	18 *457.2*	**DSH-B22563H-18**		42 *1066.8*	44½ *1130.3*											278
	24 *609.6*	**DSH-B22563H-24**		48 *1219.2*	50½ *1282.7*											296
	30 *762.0*	**DSH-B22563H-30**		54 *1371.6*	56½ *1435.1*											314
	36 *914.4*	DSH-B22563H-36		60 *1524.0*	62½ *1587.5*											332

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-64, D-65.
Lubrication fitting tap size, ⅛" PT.
All units available with type E lip seals.
◆ Width dimension for closed end unit.
Selection guide, pages D-31, D-32.
Load ratings, pages D-33, D-34.
Additional information, page D-68.

Spherical Roller Bearing Cartridge Units

CSE-B22500H

Steel Housing
Fixed or Expansion
Self-aligning
Two Spring Locking Collars
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

Shaft dia. mm	Shaft dia. inches	Cartridge unit number ▲	A	B	D	L	M	P	U	Unit wt. (lbs./kg.)
	1 7/16	**CSE-B22523H**	3.124 *79.35*	2 3/16 *55.56*	3 9/16 *90.49*	3 9/16 *90.5*	2 1/2 *63.5*	11/16 *17.5*	1 25/32 *45.2*	4.2 –
	1 11/16	**CSE-B22527H**	3.636 *92.35*	2 7/16 *61.91*	3 13/16 *96.84*	3 13/16 *96.8*	2 3/4 *69.8*	11/16 *17.5*	1 29/32 *48.4*	5.6 –
	1 15/16	**CSE-B22531H**	3.833 *97.36*	2 25/64 *60.72*	3 13/16 *96.84*	3 13/16 *96.8*	2 15/16 *74.6*	11/16 *17.5*	1 29/32 *48.4*	6.1 —
	2 2 3/16	**CSE-B22532H** **CSE-B22535H**	4.227 *107.36*	2 1/2 *63.50*	4 1/8 *104.78*	4 1/8 *104.8*	3 3/8 *85.7*	13/16 *20.6*	2 1/16 *52.4*	9.0 8.7
	2 7/16	**CSE-B22539H**	4.621 *117.37*	2 5/8 *66.68*	4 3/8 *111.12*	4 3/8 *111.1*	3 5/8 *92.1*	7/8 *22.2*	2 3/16 *55.6*	10.1 –
	2 11/16 2 15/16	**CSE-B22543H** **CSE-B22547H**	5.407 *137.34*	3 1/8 *79.38*	4 7/8 *123.82*	4 7/8 *123.8*	4 3/16 *106.4*	7/8 *22.2*	2 7/16 *61.9*	16.4 15.3
	3 7/16	**CSE-B22555H**	6.194 *157.33*	3 7/16 *87.31*	5 5/16 *134.94*	5 5/16 *134.9*	5 *127.0*	15/16 *23.8*	2 21/32 *67.5*	21.1 —
	3 15/16 4	**CSE-B22563H** **CSE-B22564H**	7.375 *187.32*	4 *101.60*	6 1/8 *155.58*	6 1/8 *155.6*	5 29/32 *150.0*	1 1/16 *27.0*	3 1/16 *77.8*	36.1 35.6
	4 3/16 4 7/16 4 1/2	**CSE-B22567H** **CSE-B22571H** **CSE-B22572H**	7.769	4 9/16	6 3/4	6 3/4	6 1/8	1 3/32	3 3/8	52.8 50.6 49.9
110 *115*		*CSE-B225M110H* *CSE-B225M115H*	*197.33*	*115.89*	*171.45*	*171.4*	*155.6*	*27.8*	*85.7*	– —
	4 15/16 5	**CSE-B22579H** **CSE-B22580H**	8.753	4 7/8	7 1/4	7 1/4	6 7/8	1 3/16	3 5/8	55.3 54.7
125		*CSE-B225M125H*	*222.33*	*123.82*	*184.15*	*184.2*	*174.6*	*30.2*	*92.1*	–

Bold face items are normally available from stock; please consult for availability of non-stock items.
Steel cartridge units cannot be disassembled. For replacement, use entire new unit.
All units available with type E lip seals.

▲ Hole for fixed location and slot for expansion location in the same housing.

† Tolerance, 4" and smaller shaft diameters, +.000" –.002" (*+0.00 mm −0.05 mm)*; Larger than 4" shaft, +.000 –.003" (+0.00 *mm −0.08 mm)*; Bore tolerance for mounting, +.002" –.000" *(+0.05 mm −0.00 mm).*

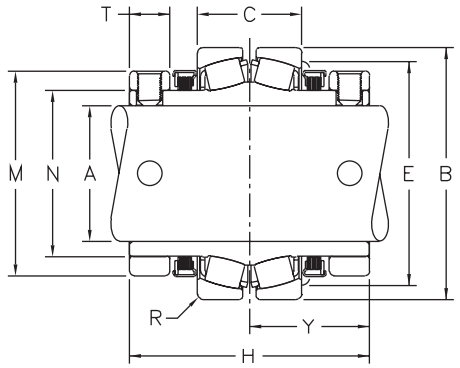
* Plug diameter .531" *(13.49 mm)*, engagement depth .125" ±.015" *(3.18 ±.038 mm)*, allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position on expansion units.

Selection guide, pages D-31, D-32.
Load ratings, pages D-31, D-34.
Additional information, page D-68.

Replacement Spherical Roller Bearings

B22500HL

Self-aligning
Two Spring Locking Collars



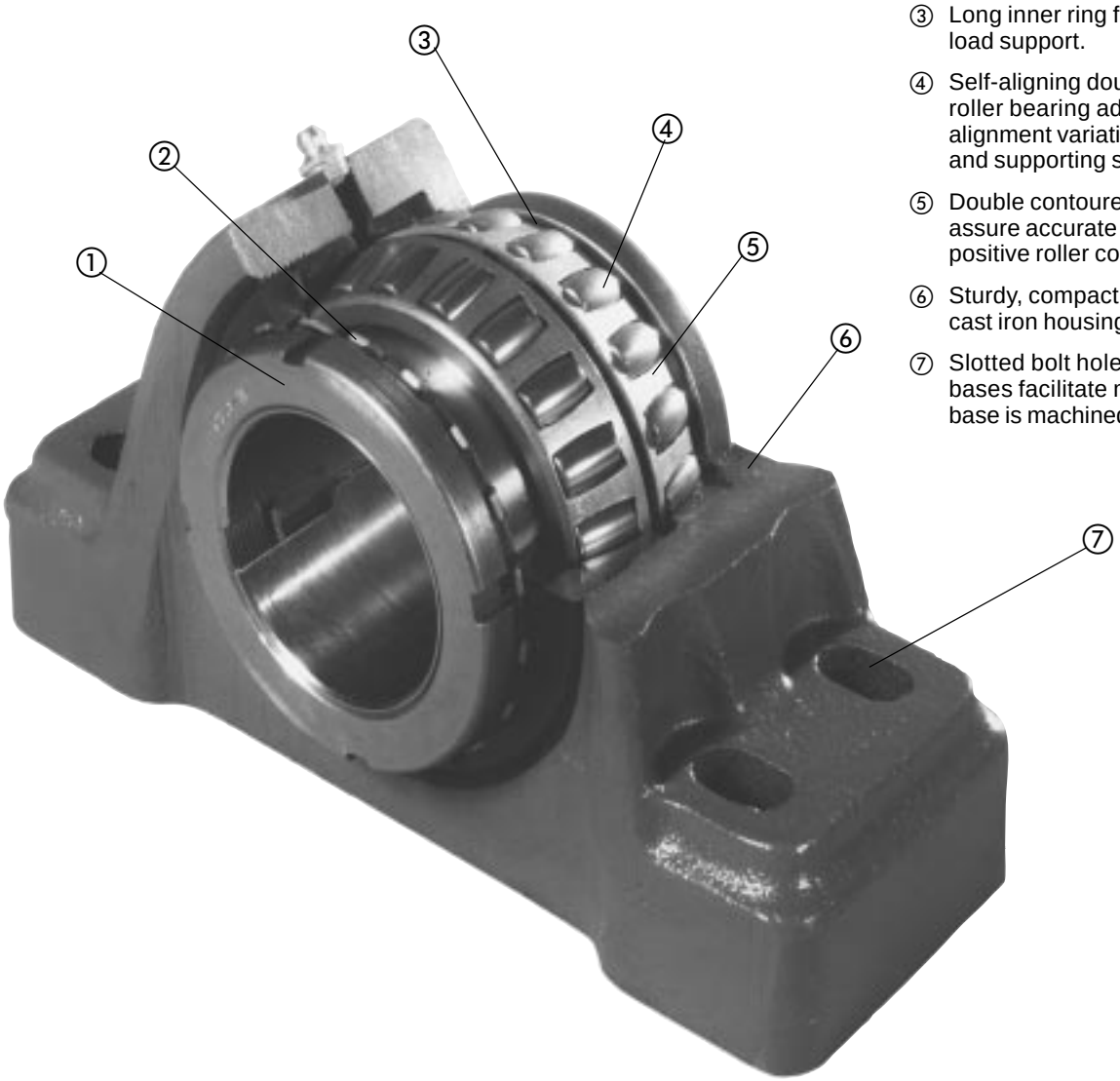
Dimensions (inches/*mm*)

Shaft Sizes *mm*	Shaft Sizes inches	Bearing number *	A *mm* +0.025 −0.000	A inches +.0010" −.0000"	B +.0010" −.000" / +0.025 −0.000 *mm*	C ±.025" / ±0.64 *mm* ‡	E Shoulder diameter	H	M	N	R Housing fillet	T	Y	Unit wt. (lbs./kg.)
	1 7/16	**B22523HL**		1.4375	2.8345 *71.996*	1.310 *33.27*	2 1/2 *63.5*	3 9/16 *90.49*	2 1/2 *63.5*	1.745 *44.32*	.062 *1.57*	5/8 *15.9*	1 25/32 *45.24*	2.4 –
	1 11/16	**B22527HL**		1.6875	3.3464 *84.998*	1.578 *40.08*	2 7/8 *73.0*	3 13/16 *96.84*	2 3/4 *69.8*	2.027 *51.48*	.062 *1.57*	5/8 *15.9*	1 29/32 *48.42*	3.5 –
	1 15/16	**B22531HL**		1.9375	3.5433 *90.000*	1.526 *38.76*	3 3/16 *81.0*	3 13/16 *96.84*	2 15/16 *74.6*	2.307 *58.59*	.078 *1.98*	5/8 *15.9*	1 29/32 *48.42*	3.8 –
	2	**B22532HL**		2.0000	3.9370	1.656	3 1/2	4 1/8	3 3/8	2.620	.062	3/4	2 1/16	6.2
	2 3/16	**B22535HL**		2.1875	*100.000*	*42.06*	*88.9*	*104.78*	*85.7*	*66.55*	*1.57*	*19.0*	*52.39*	5.5
	2 7/16	**B22539HL**		2.4375	4.3307 *110.000*	1.750 *44.45*	3 7/8 *98.4*	4 3/8 *111.12*	3 5/8 *92.1*	2.901 *73.69*	.078 *1.98*	13/16 *20.6*	2 3/16 *55.56*	7.2 –
	2 11/16	**B22543HL**		2.6875	5.1172	2.125	4 17/32	4 7/8	4 3/16	3.370	.078	13/16	2 7/16	11.6
	2 15/16	**B22547HL**		2.9375	*129.977*	*53.98*	*115.1*	*123.82*	*106.4*	*85.60*	*1.98*	*20.6*	*61.91*	10.6
	3 7/16	**B22555HL**		3.4375	5.9045 *149.974*	2.313 *58.75*	5 11/32 *135.7*	5 5/16 *134.94*	5 *127.0*	3.975 *100.97*	.125 *3.18*	27/32 *21.4*	2 21/32 *67.47*	15.7 –
	3 15/16	**B22563HL**		3.9375	7.0856	2.750	6 3/8	6 1/8	5 29/32	4.561	.125	31/32	3 1/16	26.9
	4	**B22564HL**		4.0000	*179.974*	*69.85*	*161.9*	*155.58*	*150.0*	*115.85*	*3.18*	*24.6*	*77.79*	26.4
	4 3/16	**B22567HL**		4.1875										38.2
	4 7/16	**B22571HL**		4.4375	7.4792	2.974	6 5/8	6 3/4	6 1/8	5.000	.125	1	3 3/8	36.0
	4 1/2	**B22572HL**		4.5000										35.3
110		*B225M110HL*	*110.000*											*16.3*
115		*B225M115HL*	*115.000*		*189.972*	*75.54*	*168.3*	*171.45*	*155.6*	*127.00*	*3.18*	*25.4*	*85.72*	*16.0*
	4 15/16	**B22579HL**		4.9375	8.4634	3.437	7 1/2	7 1/4	6 7/8	5.594	.125	1 3/32	3 5/8	41.6
	5	**B22580HL**		5.0000										40.7
125		*B225M125HL*	*125.000*		*214.970*	*87.30*	*190.5*	*184.15*	*174.6*	*142.08*	*3.18*	*27.8*	*92.08*	*18.4*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearings for expansion units see CSE-B22500H unit shown on page D-39.
All bearings available with type E lip seals.
* Includes bearing, two floating labyrinth seals, and two spring locking collars.
‡ Use shims, threaded cover, or spacer ring to provide for adjustment. Housing must allow clearance for this adjustment on dimension C.
Selection guide, pages D-31, D-32.
Load ratings, pages D-33, D-34.
Additional information, page D-68.

Max Mount™
Series B22600
Spherical Roller Bearing Units

Series B22600 adapter mounted spherical roller bearing units will support shafts carrying substantial radial or combination radial and thrust loads. These units are adaptable for conveyors, elevators, general industrial machinery, heavier duty fans and blowers, power transmission applications, ditchers, trenchers, pavers and other applications. They differ from series B22400 & B22500 units in that they have a tapered adapter mounting system. Series B22600 units are easy to mount, sealed, prelubricated and do not require bearing adjustment during mounting.



① Tapered adapter mounting system.

② Choice of two seals, floating labyrinth Type H, and spring-loaded lip Type E.

③ Long inner ring for high stability and load support.

④ Self-aligning double row spherical roller bearing adjusts ±2° to allow for alignment variations between shaft and supporting structure.

⑤ Double contoured retainer pockets assure accurate roller guidance and positive roller control.

⑥ Sturdy, compact one-piece high-test cast iron housing.

⑦ Slotted bolt holes in pillow block bases facilitate mounting; bottom of base is machined.

Spherical Roller Bearings

Series B22600 self-aligning double row spherical roller bearings have high LDN values and are designed to distribute the load over the symmetrical rollers, assuring positive tracking and smooth operation. The large roller complement provides high capacity for radial or combined radial-thrust loads. Osculation clearance at the ends of the rollers compensates for shock loads and prevents destructive edge loading. These precision bearings with double contoured retainer pockets are designed to meet a broad range of application requirements.

Adapter Mount

The B22600 adapter mounting provides better concentricity and shaft control, increasing service life. Where Turned, Ground and Polished shafting is the norm on collar-mounted units, the maximized mounting power of the B22600 allows for Commercial Grade Shafting compatibility (a commonly used grade of shafting due to its price and availability).

Shaft damage from set screws is eliminated with the B22600's improved mounting design. Shaft damage from the bearing inner ring fretting to the shaft (the result of a clearance or loose fit) is also eliminated. These improvements facilitate easier bearing removal, replacement bearing installation and longer shaft service life.

Seals

Two standard sealing systems are available. . .each offering maximum protection for the bearing.

Type H floating labyrinth seals have multiple self-centering rings held securely in a steel carrier. Type H seals are normally furnished.

Type E spring-loaded lip seals utilize a spring to provide uniform pressure for keeping the sealing lip in contact with the inner ring. Type E seals are normally used for liquid splash environments.

Seals are interchangeable and are designed for grease lubrication.

TYPE H SEAL

TYPE E SEAL

One-Piece Cast Iron or Cast Steel Housings

Compact one-piece housings provide for strength and load support. Scientifically contoured housing design provides superior rigidity. Cast iron or cast steel pillow blocks have two or four slotted bolt holes with ample space provided for drilling dowel pin holes. Flanged and flanged cartridge units have drilled mounting holes and machined mounting surfaces for maximum stability. Cartridge units have steel housings and are finished to precision tolerances. Takeup units have machined slots for smooth, precise operation. Pillow blocks, flanged, and cartridge units are available for fixed or expansion operation.

Max Mount™
Series B22600
Spherical Roller Bearing Units

Pillow Blocks, cast iron

EP-B22600H*, EPE-B22600H*, EP-B22600FH*, EPE-B22600FH*
P-B22600H, PE-B22600H, P-B22600FH, PE-B22600FH

Self-aligning 2-bolt base pillow blocks for shaft sizes 1 7/16" through 3 15/16" and 4-bolt base pillow blocks for shaft sizes 1 15/16" through 4 15/16". Units are available for fixed or expansion mounting.

Load ratings on pages D-47 and D-48.
Dimensions on pages D-49 through D-52.
Additional information on page D-69.

***Self-aligning Type E Interchange**

Pillow Blocks, cast steel

PK-B22600H, PKE-B22600H, PK-B22600FH, PKE-B22600FH

Self-aligning 2-bolt base pillow blocks for shaft sizes 1 7/16" through 3 15/16", 4-bolt base pillow blocks for shaft sizes 1 15/16" through 4 15/16". Units are available for fixed or expansion mounting.

Load ratings on pages D-47 and D-48.
Dimensions on pages D-53 and D-54.
Additional information on page D-69.

Flanged Units, cast iron

EF-B22600H,* FB-B22600H
F-B22600H, FE-B22600H

Self-aligning flanged units for shaft sizes 1 7/16" through 3 15/16". Units are available for fixed or expansion mounting.

Load ratings on pages D-47 and D-48.
Dimensions on pages D-56 through D-58.
Additional information on page D-69.

***Self-aligning Type E Interchange**

Flanged Cartridge Units, cast iron

FC-B22600H*

Self-aligning flanged cartridge units for shaft sizes 1 7/16" through 3 15/16". Units are available for fixed mounting.

Load ratings on pages D-47 and D-48.
Dimensions on page D-59.
Additional information on page D-69.

***Self-aligning Type E Interchange**

Cartridge Units, steel

CSE-B22600H

Self-aligning cartridge units. Steel housings for shaft sizes 1 7/16" through 3 15/16". Steel cartridge units are available for fixed or expansion mounting.

Load ratings on pages D-47 and D-48.
Dimensions on pages D-55.
Additional information on page D-69.

Takeup Units, cast iron

T-B22600H

Self-aligning units for takeup applications with shaft sizes 1 7/16" through 3 15/16". Fixed units without frames, guides, or adjusting screws.

Load ratings on pages D-47 and D-48.
Dimensions on page D-60.
Additional information on page D-69.

Replacement Bearings

B22600HL

Self-aligning double row spherical roller bearings with adapter assembly for shaft sizes 1 7/16" through 4 15/16".

Load ratings on pages D-47 and D-48.
Dimensions on page D-61.
Additional information on page D-69.

Selection
Max Mount™ Series B22600

To select a bearing, determine the applied radial load, the applied thrust load, the desired Rating Life, and applicable operating conditions. The procedure shown here will aid in selecting a bearing to meet an L_{10} design life. The formulas for calculating life expectancy should be used to determine the Rating Life L_{10} for the bearing selected.

The selection procedures and rating formulas shown here are in agreement with The American Bearing Manufacturers Association Standards and ANSI/ABMA Standards STD 11-1990. Ratings are based on fatigue life. The Rating Life L_{10} or fatigue life at 90% reliability is the usual basis for bearing selection.

For radial load applications only, Table 3, page D-48, can be used to select a bearing or to determine L_{10} life expectancy.

To assure a satisfactory bearing application, fitting practice, mounting, lubrication, sealing, static rating, housing strength, operating conditions and maintenance must be considered.

Bearing Selection

Step 1 Determine an appropriate L_{10} design life.

Type of service	Operating time, hours per year	Design life, years	L_{10} design life, hours
Light seasonal usage	500 to 750	3-5	3,000
Heavy seasonal usage	1,400 to 1,600	4-6	8,000
Industrial—8 hour shift	2,000	10	20,000
Industrial—16 hour shift	4,000	10	40,000
Industrial—continuous	8,700	10	80,000 to 100,000

Step 2 Determine a required $\left(\frac{C}{P}\right)$ from Table 1.

Step 3 Calculate the required C and select a roller bearing.

a For radial load only:

$P = F_r$

required C = $\left(\frac{C}{P}\right) P$ using $\left(\frac{C}{P}\right)$ from Step 2

Select a roller bearing from Table 2, page D-47 with a basic load rating C equal to or greater than the required C.

b For combined radial and thrust loads:

Select a trial roller bearing of the desired shaft size from Table 2, page D-47.

Calculate the ratio of thrust load F_a to the radial load F_r.

$\frac{F_a}{F_r}$

Calculate the equivalent radial load P

$$P = XF_r + YF_a$$

If $\frac{F_a}{F_r}$ is equal to or less than e, then $P = X_1F_r + Y_1F_a$

If $\frac{F_a}{F_r}$ is greater than e, then $P = X_2F_r + Y_2F_a$

For values of e, X_1, Y_1, X_2, and Y_2, see Table 2, page D-47.

Calculate the required C

required C = $\left(\frac{C}{P}\right) P$ using $\left(\frac{C}{P}\right)$ from Step 2.

Consult Table 2, page D-47, basic load rating. If a smaller bearing meets, or nearly meets, the required C, its life expectancy can be calculated.

Note: If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.

Selection
Max Mount™
Series B22600

symbols for formulas:

C = basic load rating, pounds (or newtons)
C_o = static load rating, pounds (or newtons)
e = a reference value
F_a = thrust load, pounds (or newtons)
F_r = radial load, pounds (or newtons)
L_{10} = rating life, hours
n = speed, revolutions per minute
P = equivalent radial load, pounds (or newtons)
X = radial factor
Y = thrust factor

basic formulas:

$$\left(\frac{C}{P}\right) = \left(\frac{L_{10} \times n \times 60}{1{,}000{,}000}\right)^{3/10}$$

$$L_{10} = \frac{\left(\frac{C}{P}\right)^{10/3} \times 1{,}000{,}000}{n \times 60}$$

Table 1 • Relation of L_{10} life and speed to $\left(\frac{C}{P}\right)$

Bearing life, hours L_{10}	$\left(\frac{C}{P}\right)$ ratio								
	Speed, n								
	50	100	200	300	400	500	600	700	800
3000	1.93	2.38	2.93	3.31	3.61	3.86	4.07	4.27	4.44
4000	2.11	2.59	3.19	3.61	3.93	4.20	4.44	4.65	4.84
5000	2.25	2.77	3.42	3.86	4.20	4.50	4.75	4.97	5.18
6000	2.38	2.93	3.61	4.07	4.44	4.75	5.02	5.25	5.47
8000	2.59	3.19	3.93	4.44	4.84	5.18	5.47	5.73	5.96
10000	2.77	3.42	4.20	4.75	5.18	5.54	5.85	6.12	6.37
12000	2.93	3.61	4.44	5.02	5.47	5.85	6.18	6.47	6.73
14000	3.07	3.78	4.65	5.25	5.73	6.12	6.47	6.77	7.05
16000	3.19	3.93	4.84	5.47	5.96	6.37	6.73	7.05	7.34
18000	3.31	4.07	5.02	5.66	6.18	6.60	6.97	7.30	7.60
20000	3.42	4.20	5.18	5.85	6.37	6.81	7.20	7.54	7.85
25000	3.65	4.50	5.54	6.25	6.81	7.29	7.70	8.06	8.39
30000	3.86	4.75	5.85	6.60	7.20	7.70	8.13	8.51	8.86
35000	4.04	4.97	6.12	6.92	7.54	8.06	8.51	8.92	9.28
40000	4.20	5.18	6.37	7.20	7.85	8.39	8.86	9.28	9.66
45000	4.36	5.36	6.60	7.46	8.13	8.69	9.18	9.61	10.00
50000	4.50	5.54	6.81	7.70	8.39	8.97	9.48	9.92	10.30
60000	4.75	5.85	7.20	8.13	8.86	9.48	10.00	10.50	10.90
70000	4.97	6.12	7.54	8.51	9.28	9.92	10.50	11.00	11.40
80000	5.18	6.37	7.85	8.86	9.66	10.30	10.90	11.40	11.90
90000	5.36	6.60	8.13	9.18	10.00	10.70	11.30	11.80	12.30
100000	5.54	6.81	8.39	9.48	10.30	11.00	11.70	12.20	12.70
150000	6.25	7.70	9.48	10.70	11.70	12.50	13.20	13.80	14.40
200000	6.81	8.39	10.30	11.70	12.70	13.60	14.40	15.00	15.70
	Speed, n								
	900	1000	1200	1500	1800	2400	3000	3600	6000
3000	4.60	4.75	5.02	5.36	5.66	6.18	6.60	6.97	8.13
4000	5.02	5.18	5.47	5.85	6.18	6.73	7.20	7.60	8.86
5000	5.36	5.54	5.85	6.25	6.60	7.20	7.70	8.13	9.48
6000	5.66	5.85	6.18	6.60	6.97	7.60	8.13	8.59	10.00
8000	6.18	6.37	6.73	7.20	7.60	8.29	8.86	9.36	10.90
10000	6.60	6.81	7.20	7.70	8.13	8.86	9.48	10.00	11.70
12000	6.97	7.20	7.60	8.13	8.59	9.36	10.00	10.60	12.30
14000	7.30	7.54	7.96	8.51	8.99	9.80	10.50	11.10	12.90
16000	7.60	7.85	8.29	8.86	9.36	10.20	10.90	11.50	13.40
18000	7.88	8.13	8.59	9.18	9.70	10.60	11.30	11.90	13.90
20000	8.13	8.39	8.86	9.48	10.00	10.90	11.70	12.30	14.40
25000	8.69	8.97	9.48	10.10	10.70	11.70	12.50	13.20	15.40
30000	9.18	9.48	10.00	10.70	11.30	12.30	13.20	13.90	16.20
35000	9.61	9.92	10.50	11.20	11.80	12.90	13.80	14.60	17.00
40000	10.00	10.30	10.90	11.70	12.30	13.40	14.40	15.20	17.70
45000	10.40	10.70	11.30	12.10	12.80	13.90	14.90	15.70	18.30
50000	10.70	11.00	11.70	12.50	13.20	14.40	15.40	16.20	18.90
60000	11.30	11.70	12.30	13.20	13.90	15.20	16.20	17.10	20.00
70000	11.80	12.20	12.90	13.80	14.60	15.90	17.00	17.90	20.90
80000	12.30	12.70	13.40	14.40	15.20	16.50	17.70	18.70	21.80
90000	12.80	13.20	13.90	14.90	15.70	17.10	18.30	19.40	22.60
100000	13.20	13.60	14.40	15.40	16.20	17.70	18.90	20.00	23.30
150000	14.90	15.40	16.20	17.30	18.30	20.00	21.40	22.60	26.30
200000	16.20	16.70	17.70	18.90	20.00	21.80	23.30	24.60	28.70

Life Expectancy

To calculate the Rating Life L_{10} of any selected or trial bearing:

Step 1 Determine the equivalent radial load P.

a For radial load only:

$P = F_r$

b For combined radial and thrust load:

$$P = XF_r + YF_a$$

If $\frac{F_a}{F_r}$ is equal to or less than e, then

$$P = X_1F_r + Y_1F_a$$

If $\frac{F_a}{F_r}$ is greater than e, then

$$P = X_2F_r + Y_2F_a$$

For values of e, X_1, Y_1, X_2, and Y_2, see Table 2, page D-47.

Step 2 Calculate the ratio of the basic load rating C to the equivalent radial load.

$\frac{C}{P}$

Step 3 Approximate the bearing life from Table 1.

Life Adjustment

The Rating Life, L_{10}, may be modified for some applications in accordance with the formula

$$L_n' = a_1a_2a_3L_{10}$$

where L_n' = Adjusted life for (100-n) % reliablility,
a_1 = Life adjustment factor for reliability
a_2 = Life adjustment factor for material and processing
a_3 = Life adjustment factor for operating conditions.

For most normal applications, all factors will be taken as 1, and the Rating Life used as the selection basis or life estimate. In addition, as long as standard catalog bearings are used, a_2 will be normally set equal to one. The factor a_3 covers such things as lubrication, misalignment, and temperature. Some conditions that could yield a_3 significantly different than unity include speeds less than 20000 DN or greater than 200000 DN, temperatures below –40°F (–40°C) or above 275°F (135°C). For other possible conditions, as well as additional information on life adjustment factors, consult Link-Belt Bearing Division, Rexnord Corp.

Load Ratings
Max Mount™ Series B22600

Table 2 • Load ratings and speed limits

Shaft diameter inches	Bearing size number	C_0 Static load rating		C Basic load rating		Approximate speed limit RPM ●	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		newtons	pounds	*newtons*	pounds	H and E seals		X_1	Y_1	X_2	Y_2
1 7/16	B22623	*93 200*	20900	*64 900*	14600	2750	.44	1.00	1.54	.67	2.29
1 15/16	B22631	*147 700*	33200	*94 300*	21200	2150	.40	1.00	1.68	.67	2.50
2 3/16	B22635	*197 500*	44400	*117 400*	26400	1950	.40	1.00	1.68	.67	2.50
2 7/16	B22639	*238 000*	53500	*139 700*	31400	1750	.38	1.00	1.80	.67	2.68
2 11/16 2 15/16	B22643 B22647	*318 000*	71500	*185 900*	41800	1500	.38	1.00	1.79	.67	2.67
3 7/16	B22655	*403 400*	90700	*226 800*	51000	1250	.38	1.00	1.77	.67	2.64
3 15/16	B22663	*609 400*	137000	*351 800*	79100	1100	.36	1.00	1.88	.67	2.79
4 7/16	B22671	*790 200*	178000	*419 400*	94300	1000	.38	1.00	1.80	.67	2.68
4 15/16	B22679	*944 700*	212000	*520 400*	117000	900	.37	1.00	1.83	.67	2.72

If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.
For vertical shift application, consult Link-Belt Bearing Division, Rexnord Corp.
● Based on grease lubrication and moderate load.
Additional information, page D-69.

Load Ratings
Max Mount™
Series B22600

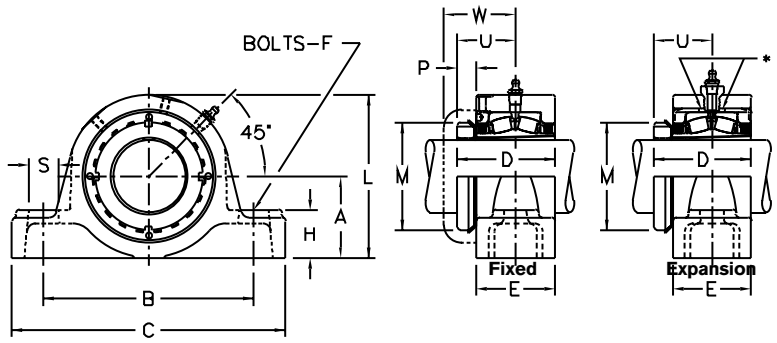
Table 3 • Radial load ratings in pounds at various RPM for appropriate L_{10} life hours

Shaft diameter inches	Bearing size number	L_{10} Minimum life, hours	Radial load ratings, pounds — Speed, RPM														
			50	100	200	300	500	700	900	1000	1200	1500	1800	2000	2500	3000	3500
1 7/16	B22623	8000	....	....	....	3290	2820	2540	2360	2290	2170	2020	1920	1860	1740		
		20000	....	3470	2820	2500	2140	1930	1800	1740	1640	1540	1450	1410	1320		
		40000	3470	2820	2290	2020	1740	1570	1450	1410	1330	1250	1180	1140	1070		
		100000	2630	2140	1740	1540	1320	1200	1100	1070	1010	950	900	872	815		
1 15/16	B22631	8000	....	....	....	4770	4100	3700	3430	3320	3140	2940	2790	2700			
		20000	....	5040	4100	3620	3110	2810	2600	2520	2390	2230	2110	2050			
		40000	5040	4100	3320	2940	2520	2280	2110	2050	1940	1810	1720	1670			
		100000	3830	3110	2520	2230	1910	1730	1600	1550	1480	1380	1300	1270			
2 3/16	B22635	8000	....	....	....	5940	5100	4600	4280	4140	3920	3670	3470				
		20000	....	6280	5100	4510	3870	3500	3240	3140	2980	2790	2630				
		40000	6280	5100	4140	3670	3140	2840	2630	2550	2410	2260	2140				
		100000	4770	3870	3140	2790	2390	2160	2000	1940	1830	1710	1620				
2 7/16	B22639	8000	....	....	....	7070	6070	5480	5090	4920	4660	4360					
		20000	....	7470	6070	5370	4600	4170	3860	3740	3540	3310					
		40000	7470	6070	4920	4360	3740	3380	3130	3030	2880	2690					
		100000	5670	4600	3740	3310	2840	2570	2380	2300	2190	2040					
2 11/16 2 15/16	B22643 B22647	8000	....	....	....	9410	8070	7300	6770	6550	6200	5800					
		20000	....	9940	8070	7150	6130	5540	5140	4980	4710	4410					
		4000	9940	8070	6550	5800	4980	4500	4180	4040	3830	3580					
		100000	7550	6130	4980	4410	3780	3420	3170	3070	2910	2720					
3 7/16	B22655	8000	....	....	....	11400	9850	8900	8250	8000	7580						
		20000	....	12100	9850	8720	7480	6770	6270	6080	5750						
		40000	12100	9850	8000	7090	6080	5500	5100	4930	4670						
		100000	9210	7480	6080	5380	4610	4170	3870	3750	3550						
3 15/16	B22663	8000	....	....	....	17800	15200	13800	12800	12400							
		20000	....	18800	15200	13500	11600	10400	9730	9420							
		40000	18800	15200	12400	11000	9420	8520	7900	7650							
		100000	14200	11600	9420	8340	7160	6470	6000	5810							
	4 7/16	8000	....	....	....	21200	18200	16400	15200	14800							
		20000	....	....	22400	18200	15100	13800	12500	11600	11200						
	B22671	40000		22400	18200	14800	13100	11200	10100	9420	9120						
		100000			17000	13800	11200	9950	8530	7710	7150	6930					
	4 5/16	8000	....	....	....	26300	22500	20400	18900								
		20000	....	....	27800	22500	20000	17100	15500	14300							
	B22679	40000		27800	22500	18300	16200	13900	12600	11700							
		100000			2100	17100	13900	12300	10500	9580	8880						

If the load P is greater than .25C, consult Link-Belt Bearing Division, Rexnord Corp.

Spherical Roller Bearing Pillow Blocks
Max Mount™
P-B22600H, PE-B22600H

Cast Iron Housing
2-bolt Base
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

Shaft dia. inches	Pillow block number△ Fixed	Pillow block number△ Expansion	A †	B	C	D ●	E	F Bolts	H ■	L Fixed	L Expansion	M	P ●	S	U ●	W ◆	Unit wt. (lbs./kg.)
1 7/16	**P-B22623H**	**PE-B22623H**	1 7/8 *47.62*	5 *127.0*	6 7/8 *174.6*	2.708 *68.78*	2 1/4 *57.2*	1/2 *12*	1 3/16 *30.2*	3 11/16 *93.7*	3 7/8 *98.4*	2 1/4 *57.2*	9/16 *14.3*	13/16 *20.6*	1 43/64 *42.5*	2 3/16 *55.6*	7 *3.2*
1 15/16	**P-B22631H**	**PE-B22631H**	2 1/4 *57.15*	6 1/4 *158.8*	8 3/8 *212.7*	3.075 *78.10*	2 1/2 *63.5*	5/8 *16*	1 3/8 *34.9*	4 9/16 *115.9*	4 9/16 *115.9*	2 31/32 *75.4*	43/64 *17.1*	15/16 *23.8*	1 55/64 *47.2*	2 9/32 *57.9*	12 *5.4*
2 3/16	**P-B22635H**	**PE-B22635H**	2 1/2 *63.50*	6 3/4 *171.4*	8 7/8 *225.4*	3.159 *80.24*	2 9/16 *65.1*	5/8 *16*	1 5/8 *41.3*	5 *127.0*	5 *127.0*	3 5/32 *80.2*	21/32 *16.7*	15/16 *23.8*	1 9/32 *30.7*	2 7/16 *61.9*	14 *6.4*
2 7/16	**P-B22639H**	**PE-B22639H**	2 3/4 *69.85*	7 1/8 *181.0*	9 1/4 *235.0*	3.362 *85.39*	2 11/16 *68.3*	5/8 *16*	1 5/8 *41.3*	5 1/2 *139.7*	5 1/2 *139.7*	3 5/8 *92.1*	43/64 *17.1*	15/16 *23.8*	2 3/64 *52.0*	2 9/16 *65.1*	17 *7.7*
2 11/16 2 15/16	**P-B22643H** **P-B22647H**	**PE-B22643H** **PE-B22647H**	3 1/4 *82.55*	8 1/8 *206.4*	10 7/16 *265.1*	3.863 *98.12*	3 3/16 *81.0*	3/4 *20*	2 *57.2*	6 7/16 *163.5*	6 7/16 *163.5*	4 5/32 *105.6*	3/4 *19.1*	1 1/16 *27.0*	2 19/64 *58.3*	2 25/32 *70.6*	29 27 *13.2* *12.2*
3 7/16	**P-B22655H**	**PE-B22655H**	3 3/4 *95.25*	10 *254.0*	13 *330.2*	4.306 *109.37*	3 7/16 *87.3*	7/8 *24*	2 1/4 *57.2*	7 1/2 *190.5*	7 1/2 *190.5*	4 15/16 *125.4*	7/8 *22.2*	1 5/8 *41.3*	2 9/16 *65.1*	3 *76.2*	42 *19.1*
3 15/16	**P-B22663H**	**PE-B22663H**	4 1/4 *107.95*	11 3/4 *298.4*	15 1/4 *387.4*	4.944 *125.58*	4 *101.6*	1 *24*	2 5/8 *66.7*	8 1/2 *215.9*	8 1/2 *215.9*	5 7/16 *138.1*	15/16 *23.8*	2 1/4 *57.2*	2 15/16 *74.6*	3 7/16 *87.3*	59 *26.9*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66, D-67.
Lubrication fitting tap size, 1/8" PT.
with type E lip seals.
Selection guide, page D-45, D4-6.
Load ratings, pages D-47, D-48. All units available
Additional information, page D-69.

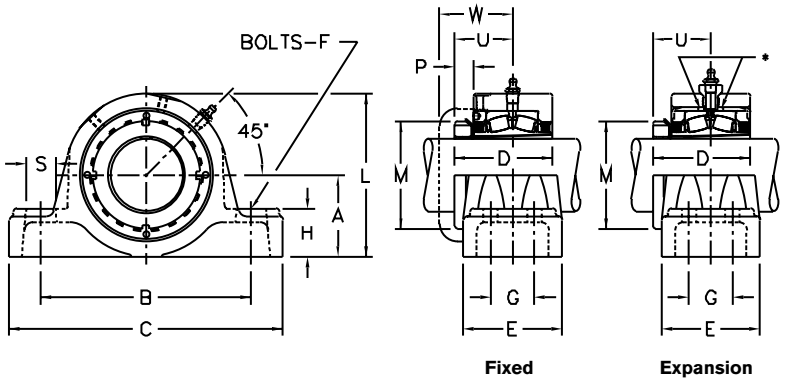
* Expansion unit allows axial movement of 3/16" (4.8 mm) in either direction from centered position shown.
† Tolerance, ±.005" (±0.13 mm).
■ Dimension H for PE-B22639H is 1 3/4"; Dimension H for PE-B22643H thru PE-B22647H is 2 1/4".
◆ Width dimension for closed end unit.
△ LHD Sliding Base Takeup can be drilled for P-B22600H pillow blocks, see page D-22
● Dimensions based on unmounted condition.

Spherical Roller Bearing Pillow Blocks

Max Mount™

P-B24600FH, PE-B22600FH

Cast Iron Housing
4-bolt Base
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Fixed **Expansion**

Dimensions (inches/*mm*)

Shaft dia. inches	Pillow block number		A †	B	C	D ●	E	F Bolts	G	H	L	M	P ●	S	U ●	W ◆	Unit wt. (lbs./kg.)
Fixed	Fixed	Expansion															
1 15/16	**P-B22631FH**	PE-B22631FH	2 1/4 *57.15*	6 1/4 *158.8*	8 3/8 *212.7*	3.075 *78.10*	3 3/16 *81.0*	1/2 *12*	1 19/32 *40.5*	1 3/8 *34.9*	4 9/16 *115.9*	2 31/32 *75.4*	43/64 *17.1*	13/16 *20.6*	1 55/64 *47.2*	2 9/32 *57.9*	13 *5.9*
2 3/16	**P-B22635FH**	PE-B22635FH	2 1/2 *63.50*	6 3/4 *171.4*	8 7/8 *225.4*	3.159 *80.24*	3 1/4 *82.6*	1/2 *12*	1 11/16 *42.9*	1 5/8 *41.3*	5 *127.0*	3 5/32 *80.2*	21/32 *16.7*	13/16 *20.6*	1 9/32 *30.7*	2 7/16 *61.9*	15 *6.8*
2 7/16	P-B22639FH	PE-B22639FH	2 3/4 *69.85*	7 1/8 *181.0*	9 1/4 *235.0*	3.362 *85.39*	3 3/8 *85.7*	1/2 *12*	1 3/4 *44.4*	1 3/4 *44.4*	5 1/2 *139.7*	3 5/8 *92.1*	43/64 *17.1*	13/16 *20.6*	2 3/64 *52.0*	2 9/16 *65.1*	19 *8.6*
2 11/16 2 15/16	P-B22643FH P-B22647FH	PE-B22643FH PE-B22647FH	3 1/4 *82.55*	8 1/8 *206.4*	10 7/16 *265.1*	3.863 *98.12*	3 3/4 *95.2*	5/8 *16*	1 7/8 *47.6*	2 1/4 *57.2*	6 7/16 *163.5*	4 5/32 *105.6*	3/4 *19.1*	15/16 *23.8*	2 19/64 *58.3*	2 25/32 *70.6*	30 29 *13.6* *13.2*
3 7/16	P-B22655FH	PE-B22655FH	3 3/4 *95.25*	10 *254.0*	13 *330.2*	4.306 *109.37*	4 1/8 *104.8*	3/4 *20*	2 *50.8*	2 1/4 *57.2*	7 1/2 *190.5*	4 15/16 *125.4*	7/8 *22.2*	1 1/2 *38.1*	2 9/16 *65.1*	3 *76.2*	43 *19.5*
3 15/16	P-B22663FH	PE-B22663FH	4 1/4 *107.95*	12 1/2 *317.5*	15 1/4 *387.4*	4.944 *125.58*	4 1/2 *114.3*	3/4 *20*	2 1/4 *57.2*	2 5/8 *66.7*	8 1/2 *215.9*	5 7/16 *138.1*	15/16 *23.8*	1 1/4 *31.8*	2 15/16 *74.6*	3 7/16 *87.3*	67 *30.3*
4 7/16	**P-B22671FH**	**PE-B22671FH**	4 3/4 *120.65*	13 1/2 *342.9*	16 1/2 *419.1*	5.534 *140.56*	4 3/4 *120.6*	3/4 *20*	2 1/2 *63.5*	2 3/4 *69.8*	9 3/8 *238.1*	6 1/8 *155.6*	1 3/32 *27.8*	1 3/8 *34.9*	3 1/32 *84.9*	3 3/4 *95.2*	88 *39.9*
4 15/16	**P-B22679FH**	**PE-B22679FH**	5 1/2 *139.70*	15 1/2 *393.7*	18 1/2 *469.9*	6.056 *153.82*	5 3/8 *136.5*	7/8 *24*	2 3/4 *69.8*	3 *76.2*	10 7/8 *276.2*	6 3/4 *171.4*	1 3/16 *30.2*	1 1/2 *38.1*	3 21/32 *92.9*	4 *101.6*	128 *58.1*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66 through D-67.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, ±.005" *(±0.13 mm)*.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

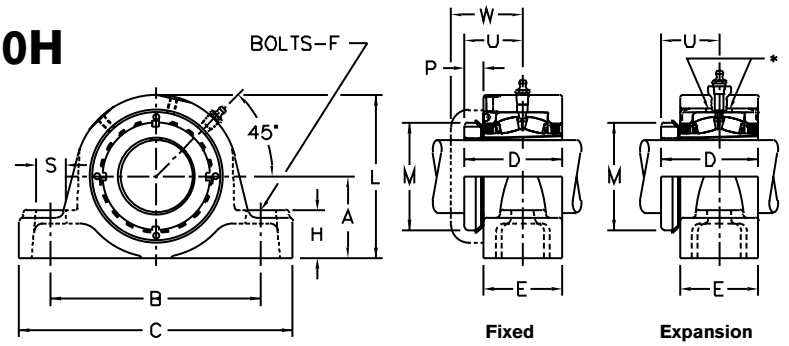
Spherical Roller Bearing Pillow Blocks

Max Mount™

EP-B22600H, EPE-B22600H

Cast Iron Housing
2-Bolt Base
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed

Self-Aligning Type E Interchange



Dimensions (inches/*mm*)

Shaft dia. inches	Pillow block number△ Fixed	Pillow block number△ Expansion	A †	B min.	B max.	C	D ●	E	F Bolts	H	L	M	P ●	U ●	W ◆	Unit wt. (lbs./kg.)
1 7/16	EP-B22623H	EPE-B22623H	1 7/8 *47.62*	4 3/4 *120.6*	6 *152.4*	7 3/8 *187.3*	2.708 *68.78*	2 1/4 *57.2*	1/2 *12*	1 1/8 *28.6*	3 7/8 *98.4*	2 1/4 *57.2*	9/16 *14.3*	1 43/64 *42.5*	2 3/16 *55.6*	8 *3.1*
1 15/16	EP-B22631H	EPE-B22631H	2 1/4 *57.15*	6 1/16 *154.0*	7 1/4 *184.2*	8 7/8 *225.4*	3.075 *78.10*	2 1/2 *63.5*	5/8 *16*	1 5/16 *33.3*	4 9/16 *115.9*	2 31/32 *75.4*	43/64 *17.1*	1 55/64 *47.2*	2 9/32 *57.9*	12 *5.5*
2 3/16	EP-B22635H	EPE-B22635H	2 1/2 *63.50*	6 9/16 *166.7*	8 *203.2*	9 5/8 *244.5*	3.159 *80.24*	2 9/16 *65.1*	5/8 *16*	1 1/2 *38.1*	5 *127.0*	3 5/32 *80.2*	21/32 *16.7*	1 9/32 *30.7*	2 7/16 *61.9*	15 *6.8*
2 7/16	EP-B22639H	EPE-B22639H	2 3/4 *69.85*	6 15/16 *176.2*	8 3/4 *222.2*	10 1/2 *266.7*	3.362 *85.39*	2 11/16 *68.3*	5/8 *16*	1 5/8 *41.3*	5 1/2 *139.7*	3 5/8 *92.1*	43/64 *17.1*	2 3/64 *52.0*	2 9/16 *65.1*	17 *7.7*
2 11/16 2 15/16	EP-B22643H EP-B22647H	EPE-B22643H EPE-B22647H	3 1/8 *79.38*	7 13/16 *198.4*	9 3/4 *247.6*	11 13/16 *300.0*	3.863 *98.12*	3 3/16 *81.0*	3/4 *20*	1 7/8 *47.6*	6 5/16 *160.3*	4 5/32 *105.6*	3/4 *19.1*	2 19/64 *58.3*	2 25/32 *70.6*	29 27 *13.3* *12.2*
3 7/16	EP-B22655H	EPE-B22655H	3 3/4 *95.25*	9 5/16 *236.5*	11 5/16 *287.3*	13 13/16 *350.8*	4.306 *109.37*	3 1/2 *88.9*	7/8 *24*	2 1/4 *57.2*	7 1/2 *190.5*	4 15/16 *125.4*	7/8 *22.2*	2 9/16 *65.1*	3 *76.2*	43 *19.5*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66, D-67.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
† Tolerance, ±.005" *(±0.13 mm)*.
△ LHD Sliding Base Takeup can be drilled for P-B22600H pillow blocks, see page D-22.
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

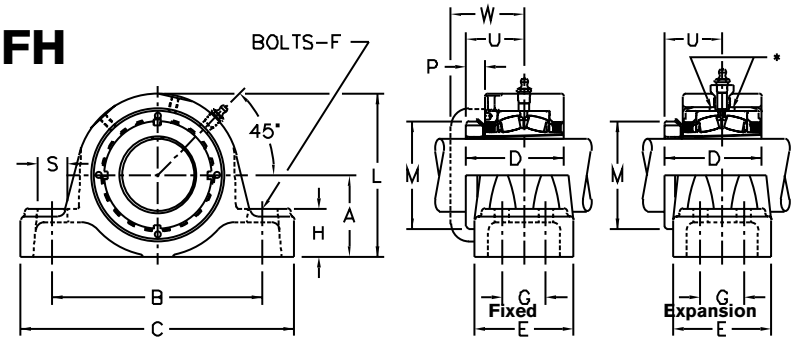
Spherical Roller Bearing Pillow Blocks

Max Mount™

EP-B22600FH, EPE-B22600FH

Cast Iron Housing
4-Bolt Base
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed

Self-Aligning Type E Interchange



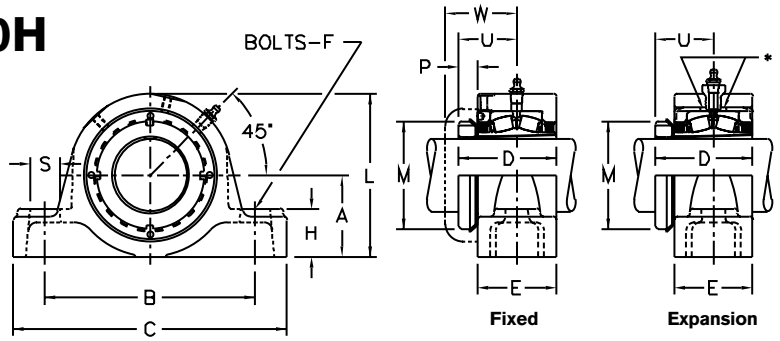
Dimensions (inches/*mm*)

Shaft dia. inches	Pillow block number Fixed	Pillow block number Expansion	A †	B min.	B max.	C	D ●	E	F Bolts	G	H	L	M	P ●	U ●	W ◆	Unit wt. (lbs./kg.)
2 7/16	EP-B22639FH	EPE-B22639FH	2 3/4 *69.85*	6 15/16 *176.2*	8 3/4 *222.2*	10 1/2 *266.7*	3.362 *85.39*	3 5/8 *92.1*	5/8 *16*	1 7/8 *47.6*	1 5/8 *41.3*	5 1/2 *139.7*	3 5/8 *92.1*	43/64 *17.1*	2 3/64 *52.0*	2 9/16 *65.1*	20 *9.1*
2 11/16 2 15/16	EP-B22643FH EP-B22647FH	EPE-B22643FH EPE-B22647FH	3 1/8 *79.38*	7 13/16 *198.4*	9 7/8 *250.8*	11 13/16 *300.0*	3.863 *98.12*	4 1/4 *108.0*	5/8 *16*	2 1/8 *54.0*	1 7/8 *47.6*	6 5/16 *160.3*	4 5/32 *105.6*	3/4 *19.1*	2 19/64 *58.3*	2 25/32 *70.6*	31 29 *14.0* *13.1*
3 7/16	EP-B22655FH	EPE-B22655FH	3 3/4 *95.25*	9 5/16 *236.5*	11 5/16 *290.5*	13 13/16 *350.8*	4.306 *109.37*	4 3/4 *120.6*	3/4 *20*	2 3/8 *60.3*	2 1/4 *57.2*	7 1/2 *190.5*	4 15/16 *125.4*	7/8 *22.2*	2 9/16 *65.1*	3 *76.2*	46 *20.9*
3 15/16	P-B22663FH	PE-B22663FH	4 1/4 *107.95*	11 7/8 *301.6*	13 *330.2*	15 1/4 *387.4*	4.944 *125.58*	4 1/2 *114.3*	3/4 *20*	2 1/4 *57.2*	2 5/8 *66.7*	8 1/2 *215.9*	5 7/16 *138.1*	15/16 *23.8*	2 15/16 *74.6*	3 7/16 *87.3*	67 *30.4*
4 7/16	**P-B22671FH**	PE-B22671FH	4 3/4 *120.65*	12 3/4 *323.8*	14 1/8 *358.8*	16 1/2 *419.1*	5.534 *140.56*	4 3/4 *120.6*	3/4 *20*	2 1/2 *63.5*	2 3/4 *69.8*	9 3/8 *238.1*	6 1/8 *155.6*	1 3/32 *27.8*	3 11/32 *84.9*	3 3/4 *95.2*	88 *39.5*
4 15/16	**P-B22679FH**	PE-B22679FH	5 1/2 *139.70*	14 5/16 *363.5*	16 1/8 *409.6*	18 1/2 *469.9*	6.056 *153.82*	5 3/8 *136.5*	7/8 *24*	2 3/4 *69.8*	3 *76.2*	10 7/8 *276.2*	6 3/4 *171.4*	1 3/16 *30.2*	3 21/32 *92.9*	4 *101.6*	128 *58.1*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66 through D-67.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
† Tolerance, ±.005" *(±0.13 mm)*.
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Pillow Blocks
Max Mount™
PK-B22600H, PKE-B22600H

Cast Steel Housing
2-Bolt Base
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

Shaft dia. inches	Pillow block number△ Fixed	Pillow block number△ Expansion	A †	B	C	D ●	E	F Bolts	H	L Fixed	L Expansion	M	P ●	S	U ●	W ◆	Unit wt. (lbs./kg.)
1 7/16	PK-B22623H	PKE-B22623H	1 7/8 *47.62*	5 *127.0*	6 7/8 *174.6*	2.708 *68.78*	2 1/4 *57.2*	1/2 *12*	1 3/16 *30.2*	3 11/16 *93.7*	3 7/8 *98.4*	2 1/4 *57.2*	9/16 *14.3*	13/16 *20.6*	1 43/64 *42.5*	2 3/16 *55.6*	7 *3.2*
1 15/16	PK-B22631H	PKE-B22631H	2 1/4 *57.15*	6 1/4 *158.8*	8 3/8 *212.7*	3.075 *78.10*	2 1/2 *63.5*	5/8 *16*	1 3/8 *34.9*	4 9/16 *115.9*	4 9/16 *115.9*	2 31/32 *75.4*	43/64 *17.1*	15/16 *23.8*	1 55/64 *47.2*	2 9/32 *57.9*	12 *5.4*
2 3/16	PK-B22635H	PKE-B22635H	2 1/2 *63.50*	6 3/4 *171.4*	8 7/8 *225.4*	3.159 *80.24*	2 9/16 *65.1*	5/8 *16*	1 5/8 *41.3*	5 *127.0*	5 *127.0*	3 5/32 *80.2*	21/32 *16.7*	15/16 *23.8*	1 9/32 *30.7*	2 7/16 *61.9*	16 *7.3*
2 7/16	PK-B22639H	PKE-B22639H	2 3/4 *69.85*	7 1/8 *181.0*	9 1/4 *235.0*	3.362 *85.39*	2 11/16 *68.3*	5/8 *16*	1 3/4 *44.4*	5 1/2 *139.7*	5 1/2 *139.7*	3 5/8 *92.1*	43/64 *17.1*	15/16 *23.8*	2 3/64 *52.0*	2 9/16 *65.1*	18 *8.2*
2 11/16	PK-B22643H	PKE-B22643H	3 1/4	8 1/8	10 7/16	3.863	3 3/16	3/4	2 1/4	6 7/16	6 7/16	4 5/32	3/4	1 1/16	2 19/64	2 25/32	30 29
2 15/16	PK-B22647H	PKE-B22647H	*82.55*	*206.4*	*265.1*	*98.12*	*81.0*	*20*	*57.2*	*163.5*	*163.5*	*105.6*	*19.1*	*27.0*	*58.3*	*70.6*	*13.6* *13.2*
3 7/16	PK-B22655H	PKE-B22655H	3 3/4 *95.25*	10 *254.0*	13 *330.2*	4.306 *109.37*	3 7/16 *87.3*	7/8 *24*	2 1/4 *57.2*	7 1/2 *190.5*	7 1/2 *190.5*	4 15/16 *125.4*	7/8 *22.2*	1 5/8 *41.3*	2 9/16 *65.1*	3 *76.2*	43 *19.5*
3 15/16	PK-B22663H	PKE-B22663H	4 1/4 *107.95*	11 3/4 *298.4*	15 1/4 *387.4*	4.944 *125.58*	4 *101.6*	1 *24*	2 5/8 *66.7*	8 1/2 *215.9*	8 1/2 *215.9*	5 7/16 *138.1*	1 5/16 *23.8*	2 1/4 *57.2*	2 15/16 *74.6*	3 7/16 *87.3*	62 *28.1*

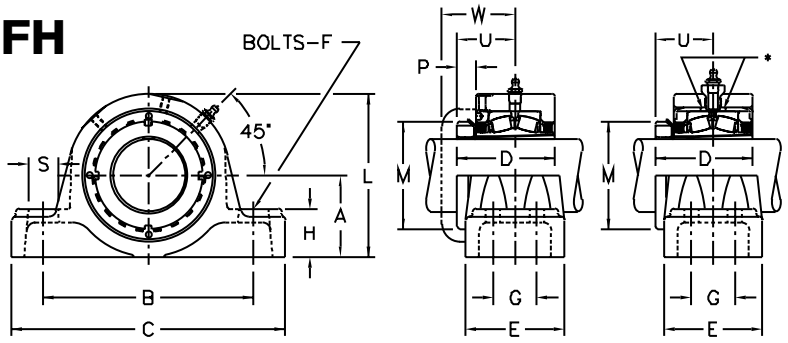
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66, D-67.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, ±.005" *(±0.13 mm)*.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
△ LHD Sliding Base Takeup can be drilled for PK-B22600H pillow blocks, see page D-22.
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Pillow Blocks

Max Mount™

PK-B22600FH, PKE-B22600FH

Cast Steel Housing
4-Bolt Base
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Fixed **Expansion**

Dimensions (inches/*mm*)

Shaft dia. inches	Pillow block number Fixed	Pillow block number Expansion	A †	B	C	D ●	E	F Bolts	G	H	L	M	P ●	S	U ●	W ◆	Unit wt. (lbs./kg.)
1 15/16	PK-B22631FH	PKE-B22631FH	2 1/4 *57.15*	6 1/4 *158.8*	8 3/8 *212.7*	3.075 *78.10*	3 3/16 *81.0*	1/2 *12*	1 19/32 *40.5*	1 3/8 *34.9*	4 9/16 *115.9*	2 31/32 *75.4*	43/64 *17.1*	13/16 *20.6*	1 55/64 *47.2*	2 9/32 *57.9*	13 *5.9*
2 3/16	PK-B22635FH	PKE-B22635FH	2 1/2 *63.50*	6 3/4 *171.4*	8 7/8 *225.4*	3.159 *80.24*	3 1/4 *82.6*	1/2 *12*	1 11/16 *42.9*	1 5/8 *41.3*	5 *127.0*	3 5/32 *80.2*	21/32 *16.7*	13/16 *20.6*	1 9/32 *30.7*	2 7/16 *61.9*	16 *7.3*
2 7/16	PK-B22639FH	PKE-B22639FH	2 3/4 *69.85*	7 1/8 *181.0*	9 1/4 *235.0*	3.362 *85.39*	3 3/8 *85.7*	1/2 *12*	1 3/4 *44.4*	1 3/4 *44.4*	5 1/2 *139.7*	3 5/8 *92.1*	43/64 *17.1*	13/16 *20.6*	2 3/64 *52.0*	2 9/16 *65.1*	20 *9.3*
2 11/16	PK-B22643FH	PKE-B22643FH	3 1/4	8 1/8	10 7/16	3.863	3 3/4	5/8	1 7/8	2 1/4	6 7/16	4 5/32	3/4	15/16	2 19/64	2 25/32	30 29
2 15/16	PK-B22647FH	PKE-B22647FH	*82.55*	*206.4*	*265.1*	*98.12*	*95.2*	*16*	*47.6*	*57.2*	*163.5*	*105.6*	*19.1*	*23.8*	*58.3*	*70.6*	*13.6* *13.2*
3 7/16	PK-B22655FH	PKE-B22655FH	3 3/4 *95.25*	10 *254.0*	13 *330.2*	4.306 *109.37*	4 1/8 *104.8*	3/4 *20*	2 *50.8*	2 1/4 *57.2*	7 1/2 *190.5*	4 15/16 *125.4*	7/8 *22.2*	1 1/2 *38.1*	2 9/16 *65.1*	3 *76.2*	47 *21.3*
3 15/16	PK-B22663FH	PKE-B22663FH	4 1/4 *107.95*	12 1/2 *317.5*	15 1/4 *387.4*	4.944 *125.58*	4 1/2 *114.3*	3/4 *20*	2 1/4 *57.2*	2 5/8 *66.7*	8 1/2 *215.9*	5 7/16 *138.1*	15/16 *23.8*	1 1/4 *31.8*	2 15/16 *74.6*	3 7/16 *87.3*	74 *33.5*
4 7/16	PK-B22671FH	PKE-B22671FH	4 3/4 *120.65*	13 1/2 *342.9*	16 1/2 *419.1*	5.534 *140.56*	4 3/4 *120.6*	3/4 *20*	2 1/2 *63.5*	2 3/4 *69.8*	9 3/8 *238.1*	6 1/8 *155.6*	1 3/32 *27.8*	1 3/8 *34.9*	3 11/32 *84.9*	3 3/4 *95.2*	93 *42.2*
4 15/16	PK-B22679FH	PKE-B22679FH	5 1/2 *139.70*	15 1/2 *393.7*	18 1/2 *469.9*	6.056 *153.82*	5 3/8 *136.5*	7/8 *24*	2 3/4 *69.8*	3 *76.2*	10 7/8 *276.2*	6 3/4 *171.4*	1 3/16 *30.2*	1 1/2 *38.1*	3 21/32 *92.9*	4 *101.6*	124 *56.2*

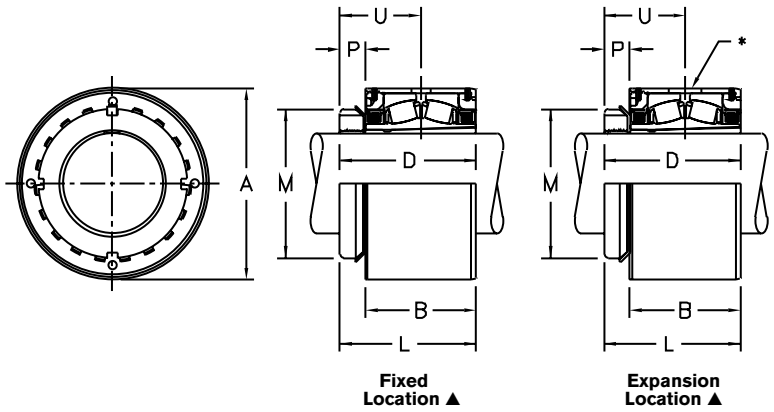
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66 through D-67.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, ±.005" *(±0.13 mm)*.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Cartridge Units

Max Mount™

CSE-B22600H

Steel Housing
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

Shaft dia. inches	Cartridge unit number ▲	A †	B	D ●	L	M	P ●	U ●	Unit wt. (lbs./kg.)
1 7/16	**CSE-B22623H**	3.124 *79.35*	2 3/16 *55.56*	2.708 *68.78*	2 3/4 *69.9*	2 1/4 *57.2*	9/16 *14.3*	1 43/64 *42.5*	4 *1.8*
1 15/16	**CSE-B22631H**	3.833 *97.36*	2 25/64 *60.72*	3.075 *78.10*	3 1/16 *77.8*	2 31/32 *75.4*	43/64 *17.1*	1 55/64 *47.2*	5 *2.3*
2 3/16	**CSE-B22635H**	4.227 *107.36*	2 1/2 *63.50*	3.159 *80.24*	3 5/32 *80.2*	3 5/32 *80.2*	21/32 *16.7*	1 9/32 *30.7*	7 *3.2*
2 7/16	**CSE-B22639H**	4.621 *117.37*	2 5/8 *66.68*	3.362 *85.39*	3 19/64 *83.7*	3 5/8 *92.1*	43/64 *17.1*	2 3/64 *52.0*	8 *3.6*
2 11/16 2 15/16	**CSE-B22643H** **CSE-B22647H**	5.407 *137.34*	3 1/8 *79.38*	3.863 *98.12*	3 7/8 *98.4*	4 5/32 *105.6*	3/4 *19.1*	2 19/64 *58.3*	14 13 *6.4* *5.9*
3 7/16	**CSE-B22655H**	6.194 *157.33*	3 7/16 *87.31*	4.306 *109.37*	4 5/16 *109.5*	4 15/16 *125.4*	7/8 *22.2*	2 9/16 *65.1*	18 *8.2*
3 15/16	**CSE-B22663H**	7.375 *187.32*	4 *101.60*	4.944 *125.58*	4 15/16 *125.4*	5 7/16 *138.1*	15/16 *23.8*	2 15/16 *74.6*	31 *14.1*
4 7/16	**CSE-B22671H**	7.769 *197.33*	4 9/16 *115.89*	5.534 *140.56*	5 21/32 *143.7*	6 1/8 *155.6*	1 3/32 *27.8*	3 11/32 *84.9*	51 *23.1*
4 15/16	**CSE-B22679H**	8.753 *222.33*	4 7/8 *123.82*	6.056 *153.82*	6 1/16 *154.0*	6 3/4 *171.4*	1 3/16 *30.2*	3 21/32 *92.9*	55 *24.9*

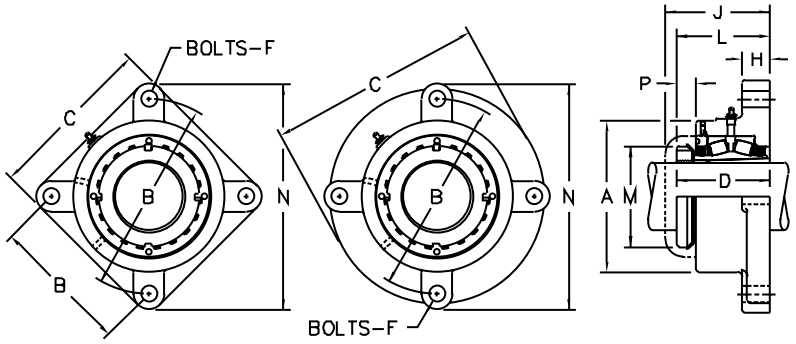
Bold face items are normally available from stock; please consult for availability of non-stock items.
Steel cartridge units cannot be disassembled. For replacement, use entire new unit.
All units available with type E lip seals.
† Tolerance, +.000" –.002" (*+0.00 mm –0.05 mm)*; bore tolerance for mounting +.002" –.000" (*+0.05 mm –0.00 mm)*.
* Plug diameter .531" *(13.49 mm)*, engagement depth .125" ±.015" *(3.18 ±0.38 mm)*, allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position on expansion units.
● Dimensions based on unmounted condition.
▲ Hole for fixed location and slot for expansion location in the same housing.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Flanged Units

Max Mount™

F-B22600H, FE-B22600H

Cast Iron Housing
3-bolt or 4-bolt Mounting
Fixed or Expansion
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

Type of Housing	Shaft dia. inches	Flanged unit number Fixed	Flanged unit number Expansion†	A Fixed	A Exp	B Circle	B Square	C ▲	D ●	F Bolts	H	J ◆	L ●	M	N	P ●	Unit wt. (lbs./kg.)
3-BOLT ROUND	1 7/16	**F-B22623H**	**FE-B22623H**	3 7/16 *87.3*	3 3/4 *95.2*	5 *127.00*	. . . . . .	5 7/8 *149.2*	2.708 *68.78*	1/2 *12*	5/8 *15.9*	3 5/16 *84.1*	2 13/16 *71.4*	2 1/4 *57.2*	6 1/4 *158.8*	9/16 *14.3*	7 *3.2*
4-BOLT ROUND	1 15/16	**F-B22631H**	**FE-B22631H**	4 1/4 *108.0*	4 1/2 *114.3*	5 3/4 *146.05*	4 1/16 *103.17*	6 11/16 *169.9*	3.075 *78.10*	1/2 *12*	11/16 *17.5*	3 9/16 *90.5*	3 13/64 *81.4*	2 31/32 *75.4*	7 *177.8*	43/64 *17.1*	10 *4.5*
	2 3/16	**F-B22635H**	**FE-B22635H**	4 7/8 *123.8*	4 7/8 *123.8*	6 3/8 *161.92*	4 1/2 *114.30*	7 3/8 *187.3*	3.159 *80.24*	5/8 *16*	11/16 *17.5*	3 25/32 *96.0*	3 9/32 *83.3*	3 5/32 *80.2*	7 3/4 *196.8*	21/32 *16.7*	14 *6.5*
	2 7/16	**F-B22639H**	**FE-B22639H**	5 3/8 *136.5*	5 3/8 *136.5*	6 3/4 *171.45*	4 49/64 *121.06*	7 3/4 *196.8*	3.362 *85.39*	5/8 *16*	3/4 *19.0*	3 31/32 *100.8*	3 27/64 *86.9*	3 5/8 *92.1*	8 1/8 *206.4*	43/64 *17.1*	17 *7.9*
	2 11/16	**F-B22643H**	**FE-B22643H**	6 1/4	6 1/4	7 7/8	5 9/16	9 1/8	3.863	3/4	7/8	4 7/16	4	4 5/32	9 1/2	3/4	27 26
	2 15/16	**F-B22647H**	**FE-B22647H**	*158.8*	*158.8*	*200.02*	*141.27*	*231.8*	*98.12*	*20*	*22.2*	*112.7*	*101.6*	*105.6*	*241.3*	*19.1*	*12.2* *11.8*
4-BOLT SQUARE	3 7/16	**F-B22655H**	**FE-B22655H**	7 3/8 *187.3*	7 3/8 *187.3*	9 1/2 *241.30*	6 23/32 *170.64*	8 5/8 *219.1*	4.306 *109.37*	3/4 *20*	1 3/8 *34.9*	4 29/32 *124.6*	4 1/2 *114.3*	4 15/16 *125.4*	11 7/16 *290.5*	7/8 *22.2*	39 *17.7*
	3 15/16	**F-B22663H**	**FE-B22663H**	8 1/8 *206.4*	8 3/8 *212.7*	10 3/4 *273.05*	7 39/64 *193.28*	9 3/4 *247.6*	4.944 *125.58*	7/8 *24*	1 1/2 *38.1*	5 5/8 *142.9*	5 1/8 *130.2*	5 7/16 *138.1*	12 29/32 *327.8*	15/16 *23.8*	57 *25.9*

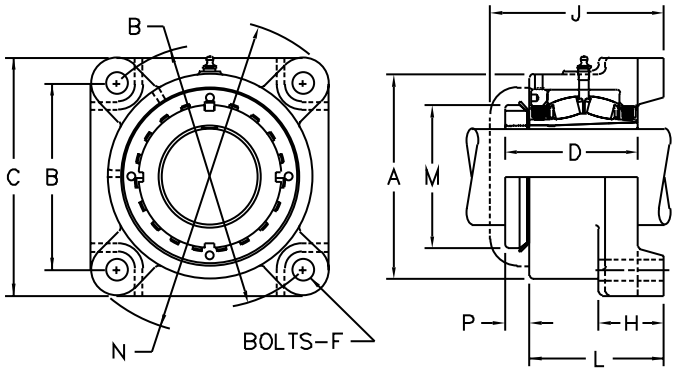
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66, D-67.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
† For expansion units, dimensions G, L, and P are minimum values. For maximum values, add .375" *(9.5 mm)*.
● Dimensions based on unmounted condition.
▲ Cross flat dimension for 3 3/16" and larger shaft.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Flanged Units

Max Mount™

EF-B22600H

Cast Iron Housing
Padded Flange
4-bolt Mounting
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Self-Aligning Type E Interchange

Dimensions (inches/*mm*)

Shaft dia. inches	Flanged unit number	A	B Circle	B Square	C	D ●	F Bolts	H	J ◆	L ●	M	N	P ●	Unit wt. (lbs./kg.)
1 7/16	EF-B22623H	3¾ *95.2*	4 61/64 *125.81*	3½ *88.9*	4⅝ *117.5*	2.708 *68.78*	½ *12*	1¼ *31.8*	4 1/32 *102.4*	3⅝ *92.1*	2¼ *57.2*	6 1/16 *154.0*	9/16 *14.3*	8 *3.6*
1 15/16	EF-B22631H	4½ *114.3*	6 3/16 *157.18*	4⅜ *111.1*	5½ *139.7*	3.075 *78.10*	½ *12*	1 7/16 *36.5*	4 5/16 *109.5*	3 15/16 *100.0*	2 31/32 *75.4*	7 5/16 *185.7*	43/64 *17.1*	11 *5.0*
2 3/16	EF-B22635H	5 *127.0*	6 57/64 *175.03*	4⅞ *123.8*	6¼ *158.8*	3.159 *80.24*	5/8 *16*	1½ *38.1*	4⅝ *117.5*	4¼ *108.0*	3 5/32 *80.2*	8 9/32 *210.3*	21/32 *16.7*	15 *6.8*
2 7/16	EF-B22639H	5⅜ *136.5*	7 19/32 *192.89*	5⅜ *136.5*	6¾ *171.4*	3.362 *85.39*	⅝ *16*	1 11/16 *42.9*	4 15/16 *125.4*	4 9/16 *115.9*	3⅜ *92.1*	8 31/32 *227.8*	43/64 *17.1*	17 *7.7*
2 11/16 2 15/16	EF-B22643H EF-B22647H	6¼ *158.8*	8 31/64 *215.49*	6 *152.4*	7⅝ *193.7*	3.863 *98.12*	¾ *20*	1 13/16 *46.0*	5 13/32 *137.3*	5 1/16 *128.6*	4 5/32 *105.6*	10⅛ *257.2*	¾ *19.1*	25 24 *11.5* *11.0*
3 7/16	EF-B22655H	7⅜ *187.3*	9 59/64 *251.23*	7 *177.8*	8¾ *222.2*	4.306 *109.37*	¾ *20*	1 15/16 *49.2*	5¾ *146.0*	5 13/32 *137.3*	4 15/16 *125.4*	11 21/32 *296.1*	⅞ *22.2*	41 *18.6*
3 15/16	EF-B22663H	8⅜ *212.7*	10 61/64 *278.21*	7¾ *196.8*	9¾ *247.6*	4.944 *125.58*	⅞ *24*	2 3/16 *55.6*	6⅝ *168.3*	6 7/32 *158.0*	5 7/16 *138.1*	12 31/32 *329.4*	15/16 *23.8*	56 *25.4*

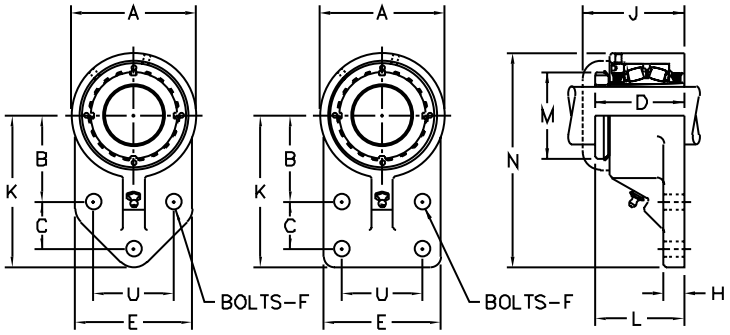
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66, D-67.
Lubrication fitting tap size, ⅛" PT.
All units available with type E lip seals.
* Expansion unit allows axial movement of 3/16" *(4.8 mm)* in either direction from centered position shown.
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Flanged Bracket Units

Max Mount™

FB-B22600H

High-Test Iron Housing
3-bolt or 4-bolt Mounting
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed



Dimensions (inches/*mm*)

Type of Housing	Shaft dia. inches	Flanged bracket unit number	A	B	C	D	E	F Bolts	H	J ◆	K	L	M	N	U	Unit wt. (lbs./kg.)
3-BOLT	1 7/16	FB-B22623H	3 7/16 *87.3*	2 3/8 *60.3*	1 1/4 *31.8*	2.708 *68.78*	3 1/4 *82.6*	1/2 *12*	5/8 *15.9*	3 5/16 *84.1*	4 1/4 *108.0*	2 13/16 *71.4*	2 1/4 *57.2*	5 31/32 *151.6*	2 *50.8*	6.4 *2.9*
	1 15/16	FB-B22631H	4 1/4 *108.0*	2 15/16 *74.6*	1 5/8 *41.3*	3.075 *78.10*	4 *101.6*	1/2 *12*	11/16 *17.5*	3 9/16 *90.5*	5 3/16 *131.8*	3 13/64 *81.4*	2 31/32 *75.4*	7 5/16 *185.7*	2 3/4 *69.8*	10.0 *4.4*
4-BOLT	2 7/16	FB-B22639H	5 3/8 *136.5*	3 3/4 *95.2*	1 3/4 *44.4*	3.159 *80.24*	4 7/8 *123.8*	5/8 *16*	3/4 *19.0*	3 31/32 *100.8*	6 1/4 *158.8*	3 9/32 *83.3*	3 5/32 *80.2*	8 15/16 *227.0*	3 *76.2*	17.5 *7.9*
	2 11/16	FB-B22643H	6 1/4	3 7/8	2 1/4	3.362	5 3/4	3/4	7/8	4 7/16	7	3 27/64	3 5/8	10 1/8	4	30.0 28.0
	2 15/16	FB-B22647H	*158.8*	*98.4*	*57.2*	*85.39*	*146.0*	*20*	*22.2*	*112.7*	*177.8*	*86.9*	*92.1*	*257.2*	*101.6*	*13.7* *12.8*

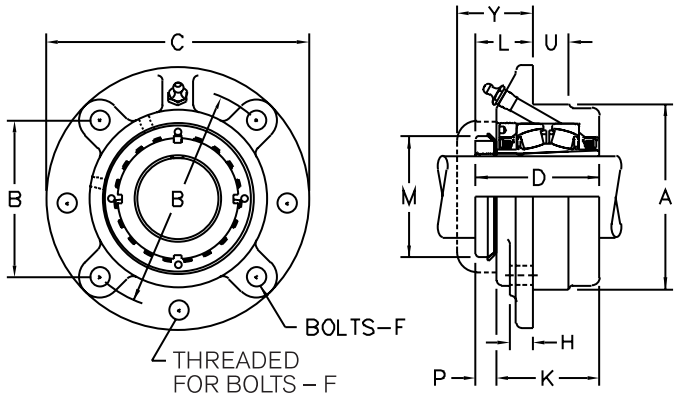
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66, D-67.
Lubrication fitting tap size: for 1½ and smaller shafts, ¼"-28 UNF; for all other shafts, ⅛" PT.
All units available with type E lip seals.
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Flanged Cartridge Units

Max Mount™

FC-B22600H

Cast Iron Housing
Self-aligning
Adapter Mounted
Factory Adjusted and Sealed
Jack Screws for Removal



Self-Aligning Type E Interchange

Dimensions (inches/*mm*)

Shaft dia. inches	Flanged cartridge unit number	A †	B Circle	B Square	C	D	F Bolts	H	J	K	L	M	P	U	Y ◆	Unit wt. (lbs./kg.)
1 7/16	**FC-B22623H**	3.625 *92.08*	4 3/8 *111.12*	3 3/32 *78.6*	5 1/4 *133.4*	2.708 *68.78*	3/8 *10*	1/2 *12.7*	1 25/64 *35.3*	2 7/32 *56.4*	1 3/8 *60.3*	2 1/4 *57.2*	9/16 *14.3*	3/4 *19.0*	1 7/8 *47.6*	6 *2.6*
1 15/16	**FC-B22631H**	4.500 *114.30*	5 3/8 *136.52*	3 51/64 *96.4*	6 3/8 *161.9*	3.075 *78.10*	7/16 *10*	9/16 *14.3*	1 19/32 *40.5*	2 15/32 *62.7*	1 35/64 *39.3*	2 31/32 *75.4*	43/64 *17.1*	7/8 *22.2*	1 29/32 *48.4*	9 *4.0*
2 3/16	**FC-B22635H**	5.000 *127.00*	6 *152.40*	4 1/4 *107.9*	7 1/8 *181.0*	3.159 *80.24*	1/2 *12*	9/16 *14.3*	1 21/32 *42.1*	2 17/32 *64.3*	1 17/32 *38.9*	3 5/32 *80.2*	21/32 *16.7*	1 *25.4*	2 1/32 *51.6*	12 *5.4*
2 7/16	**FC-B22639H**	5.500 *139.70*	6 1/2 *165.10*	4 19/32 *116.7*	7 5/8 *193.7*	3.362 *85.39*	1/2 *12*	5/8 *15.9*	1 11/16 *42.9*	2 21/32 *67.5*	1 39/64 *40.9*	3 5/8 *92.1*	43/64 *17.1*	1 *25.4*	2 5/32 *54.8*	16 *7.2*
2 11/16 2 15/16	**FC-B22643H** **FC-B22647H**	6.375 *161.92*	7 1/2 *190.50*	5 19/64 *134.5*	8 3/4 *222.2*	3.863 *98.12*	5/8 *16*	3/4 *19.0*	2 1/32 *51.6*	3 5/32 *80.2*	1 7/8 *44.4*	4 5/32 *105.6*	3/4 *19.1*	1 1/4 *31.8*	2 5/16 *58.7*	25 24 *11.4* *11.0*
3 7/16	**FC-B22655H**	7.375 *187.32*	8 5/8 *219.08*	6 3/32 *154.8*	10 1/4 *260.4*	4.306 *109.37*	3/4 *20*	15/16 *23.8*	1 15/16 *49.2*	3 13/32 *86.5*	2 23/64 *59.9*	4 15/16 *125.4*	7/8 *22.2*	1 1/4 *31.8*	2 25/32 *70.6*	37 *16.9*
3 15/16	**FC-B22663H**	8.125 *206.38*	9 3/8 *238.12*	6 5/8 *168.3*	10 7/8 *276.2*	4.944 *125.58*	3/4 *20*	1 1/8 *28.6*	2 13/32 *61.1*	3 31/32 *101.1*	2 9/16 *65.1*	5 7/16 *138.1*	15/16 *23.8*	2 *50.8*	3 1/16 *77.8*	50 *22.8*

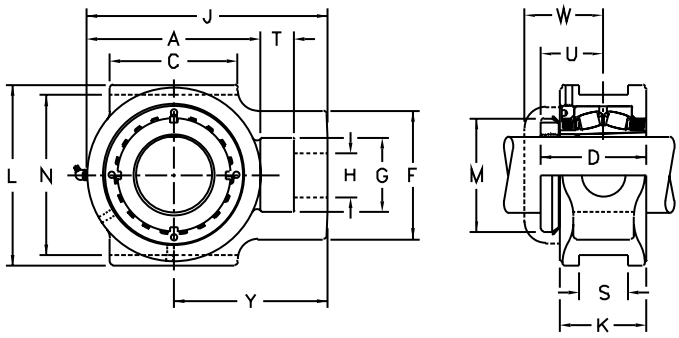
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-66, D-67.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
† Tolerance, +.000 –.002" (+*0.00 mm −0.05 mm)*; bore tolerance for mounting +.002" –.000" (+*0.05 mm −0.00 mm).*
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Takeup Units

Max Mount™

T-B22600H

Cast Iron Housing
Machined Slots
Self-aligning
Adapter Mounted
Factory Adjusted Clearance



Dimensions (inches/*mm*)

Shaft dia. inches	Takeup unit number	A	C	D ●	F	G	H	J	K	L	M	N □	S □	T	U ●	W ◆	Y	Unit wt. (lbs./kg.)
1 7/16	**T-B22623H**	3 1/2 *88.9*	2 3/4 *69.8*	2.708 *68.78*	2 3/8 *60.3*	1 7/16 *36.5*	7/8 *22.2*	4 3/4 *120.6*	2 1/4 *57.2*	4 1/8 *104.8*	2 1/4 *57.2*	3.500 *88.90*	.531 *13.49*	5/8 *15.9*	1 43/64 *42.5*	2 3/16 *55.6*	3 *76.2*	6.4 *2.9*
1 15/16	**T-B22631H**	4 3/8 *111.1*	3 3/8 *85.7*	3.075 *78.10*	3 3/16 *81.0*	1 15/16 *49.2*	1 1/8 *28.6*	5 15/16 *150.8*	2 1/2 *63.5*	4 3/4 *120.6*	2 31/32 *75.4*	4.000 *101.60*	.687 *17.46*	3/4 *19.0*	1 55/64 *47.2*	2 9/32 *57.9*	3 3/4 *95.2*	9.7 *4.4*
2 3/16	**T-B22635H**	5 1/16 *128.6*	3 3/4 *95.2*	3.159 *80.24*	3 3/4 *95.2*	2 1/4 *57.2*	1 1/4 *31.8*	7 *177.8*	2 9/16 *65.1*	5 1/4 *133.4*	3 5/32 *80.2*	4.500 *114.30*	.813 *20.64*	1 *25.4*	1 9/32 *30.7*	2 7/16 *61.9*	4 15/32 *113.5*	14.1 *6.4*
2 7/16	**T-B22639H**	5 9/16 *141.3*	4 *101.6*	3.362 *85.39*	4 1/8 *104.8*	2 1/2 *63.5*	1 3/8 *34.9*	7 13/16 *198.4*	2 11/16 *68.3*	5 7/8 *149.2*	3 5/8 *92.1*	5.125 *130.18*	1.063 *26.99*	1 1/4 *31.8*	2 3/64 *52.0*	2 9/16 *65.1*	5 1/32 *127.8*	17.8 *8.3*
2 11/16	**T-B22643H**	6 7/16	4 3/4	3.863	4 3/4	2 3/4	1 5/8	8 15/16	3 3/16	6 11/16	4 5/32	5.937	1.812	1 1/4	2 19/64	2 25/32	5 23/32	13.5 13.0
2 15/16	**T-B22647H**	*163.5*	*120.6*	*98.12*	*120.6*	*69.8*	*41.3*	*227.0*	*81.0*	*169.9*	*105.6*	*150.81*	*46.02*	*31.8*	*58.3*	*70.6*	*145.2*	*6.1* *5.9*
3 7/16	**T-B22655H**	7 3/8 *187.3*	5 1/2 *139.7*	4.306 *109.37*	4 7/8 *123.8*	2 7/8 *73.0*	1 7/8 *47.6*	10 *254.0*	3 7/16 *87.3*	7 13/16 *198.4*	4 15/16 *125.4*	6.812 *173.02*	1.812 *46.02*	1 9/16 *39.7*	2 9/16 *65.1*	3 *76.2*	6 5/16 *160.3*	43.1 *19.6*
3 15/16	**T-B22663H**	8 7/8 *225.4*	7 *177.8*	4.944 *125.58*	5 1/4 *133.4*	3 1/8 *79.4*	1 7/8 *47.6*	11 7/8 *301.6*	4 *101.6*	9 5/8 *244.5*	5 7/16 *138.1*	8.625 *219.08*	2.062 *52.37*	1 5/8 *41.3*	2 15/16 *74.6*	3 7/16 *87.3*	7 7/16 *188.9*	76 *34.5*

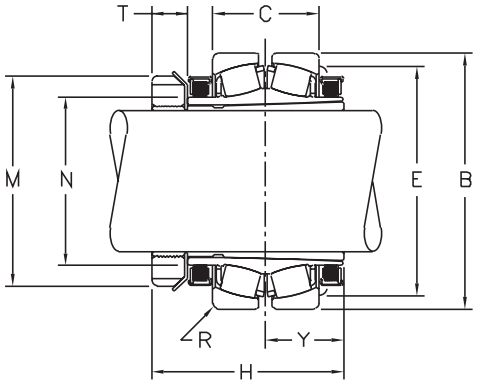
Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearing numbers, see pages D-67, D-68.
Lubrication fitting tap size, 1/8" PT.
All units available with type E lip seals.
□ Slots are machined, tolerance, +.005" –.015" (*+0.13 mm −0.38 mm).*
● Dimensions based on unmounted condition.
◆ Width dimension for closed end unit.
Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Replacement Spherical Roller Bearings

Max Mount™

B22600HL

Self-aligning
Adapter Mounted



Dimensions (inches/*mm*)

Shaft Sizes inches	Bearing number *	B +.0010" −.000" *+0.025 −0.000 mm*	C ±.025" *±0.64 mm* ‡	E Shoulder diameter	H ●	M ●	N	R Housing fillet	T	Y	Unit wt. (lbs./kg.)
1 7/16	**B22623HL**	2.8345 *71.996*	1.310 *33.27*	2 1/2 *63.5*	2.708 *68.78*	2 1/4 *57.2*	1.745 *44.32*	.062 *1.57*	1/2 *12.7*	1 3/32 *27.78*	2.1 *1.0*
1 15/16	**B22631HL**	3.5433 *90.000*	1.526 *38.76*	3 3/16 *81.0*	3.075 *78.10*	2 31/32 *75.4*	2.307 *58.59*	.078 *1.98*	9/16 *14.3*	1 7/32 *30.96*	3.3 *1.5*
2 3/16	**B22635HL**	3.9370 *100.000*	1.656 *42.06*	3 1/2 *88.9*	3.159 *80.24*	3 5/32 *80.2*	2.620 *66.55*	.062 *1.57*	19/32 *15.1*	1 1/4 *31.75*	4.5 *2.1*
2 7/16	**B22639HL**	4.3307 *110.000*	1.750 *44.45*	3 7/8 *98.4*	3.362 *85.39*	3 5/8 *92.1*	2.901 *73.69*	.078 *1.98*	5/8 *15.9*	1 5/16 *33.34*	5.9 *2.8*
2 11/16	**B22643HL**	5.1172	2.125	4 17/32	3.863	4 5/32	3.370	.078	43/64	1 9/16	10.1 9.0
2 15/16	**B22647HL**	*129.977*	*53.98*	*115.1*	*98.12*	*105.6*	*85.60*	*1.98*	*17.1*	*39.69*	*4.6* *4.1*
3 7/16	**B22655HL**	5.9045 *149.974*	2.313 *58.75*	5 11/32 *135.7*	4.306 *109.37*	4 15/16 *125.4*	3.975 *100.97*	.125 *3.18*	51/64 *20.2*	1 23/32 *43.66*	12.8 *5.8*
3 15/16	**B22663HL**	7.0856 *179.974*	2.750 *69.85*	6 3/8 *161.9*	4.944 *125.58*	5 7/16 *138.1*	4.561 *115.85*	.125 *3.18*	55/64 *21.8*	2 *50.80*	23.2 *10.5*
4 7/16	**B22671HL**	7.4792 *189.972*	2.974 *75.54*	6 5/8 *168.3*	5.534 *140.56*	6 1/8 *155.6*	5.000 *127.00*	.125 *3.18*	61/64 *24.2*	3 3/8 *85.72*	36.0 *16.3*
4 15/16	**B22679HL**	8.4634 *214.970*	3.437 *87.30*	7 1/2 *190.5*	6.056 *153.82*	6 3/4 *171.4*	5.594 *142.08*	.125 *3.18*	1 1/64 *25.8*	3 5/8 *92.08*	40.7 *18.9*

Bold face items are normally available from stock; please consult for availability of non-stock items.
For replacement bearings for expansion units use complete CSE-B22600H per page D-55.

* Includes bearing, two floating labyrinth seals and one adapter assembly.

● Dimensions based on unmounted condition. All bearings available with type E lip seals.

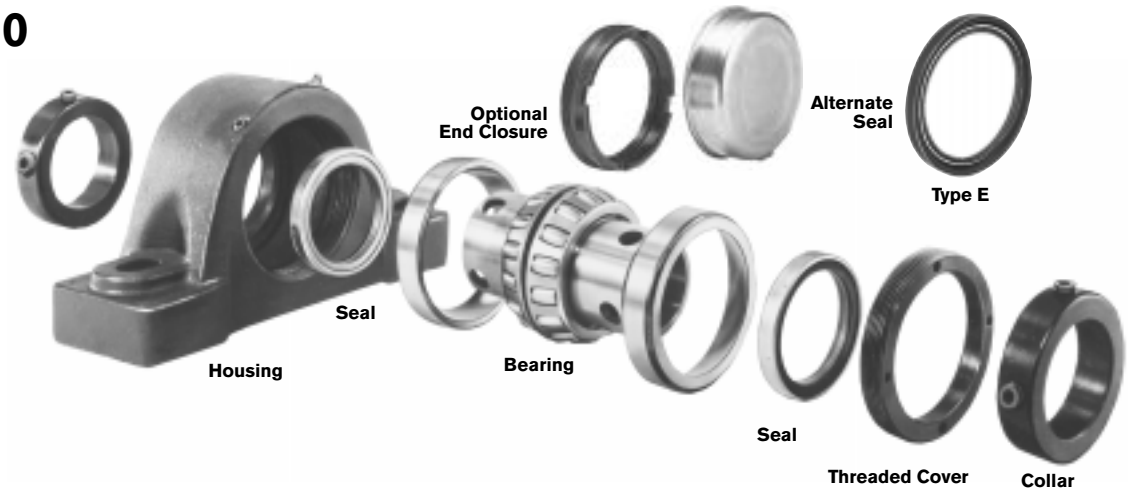
‡ Use shims, threaded cover, or spacer ring to provide for adjustment. Housing must allow clearance for this adjustment on dimension C.

Selection guide, pages D-45, D-46.
Load ratings, pages D-47, D-48.
Additional information, page D-69.

Spherical Roller Bearing Unit Replacement Parts

Series B22400

Fixed Type



Shaft diameter mm	Shaft diameter inches	Basic Bearing Designation ▲	Repair kit ■	Components in repair kit: Spherical roller bearing	Components in repair kit: Type H multi-disc labyrinth seals (2 reqd.)■	Components in repair kit: Collar with setscrews	Threaded cover for open end	Threaded cover for closed end	End closure *	Housing number ▲
25	1	B22416 *B224M25*	B22416HL *B224M25HL*	B22416 *B224M25*	B22417-3H	B22416-5S	B22417-7	B22417-7C	B22417-6	P-B22417-0
30	1 3/16 1 1/4	B22419 B22420 *B224M30*	B22419HL B22420HL *B224M30HL*	B22419 B22420 *B224M30*	B22420-3H	B22420-5S	B22420-7	B22420-7C	B22420-6	P-B22420-0
35	1 7/16 1 1/2	B22423 B22424 *B224M35*	B22423HL B22424HL *B224M35HL*	B22423 B22424 *B224M35*	B22424-3H	B22424-5S	B22424-7	B22424-7C	B22424-6	P-B22424-0
40	1 1/2 1 5/8 1 11/16 1 3/4	B224B24 B22426 B22427 B22428 *B224M40*	B224B24HL B22426HL B22427HL B22428HL *B224M40HL*	B224B24 B22426 B22427 B22428 *B224M40*	B22428-3H	B22524-5S B22428-5S B22428-5S B22428-5S B22428-5S	B22428-7	B22428-7C	B22428-6	P-B22428-0
45 50	1 3/4 1 15/16 2	B224B28 B22431 B22432 *B224M45* *B224M50*	B224B28HL B22431HL B22432HL *B224M45HL* *B224M50HL*	B224B28 B22431 B22432 *B224M45* *B224M50*	B22432-3H	B22528-5S B22432-5S B22432-5S B22432-5S B22432-5S	B22432-7	B22432-7C	B22432-6	P-B22432-0
55	2 3/16 2 1/4	B22435 B22436 *B224M55*	B22435HL B22436HL *B224M55HL*	B22435 B22436 *B224M55*	B22436-3H	B22435-5S B22436-5S B22436-5S	B22436-7	B22436-7C	B22436-6	P-B22436-0
60	2 1/4 2 7/16 2 1/2	B224B36 B22439 B22440 *B224M60*	B224B36HL B22439HL B22440HL *B224M60HL*	B224B36 B22439 B22440 *B224M60*	B22440-3H	B22536-5S B22440-5S B22440-5S B22440-5S	B22440-7	B22440-7C	B22440-6	P-B22440-0
65 70 75	2 11/16 2 3/4 2 15/16 3	B22443 B22444 B22447 B22448 *B224M65* *B224M70* *B224M75*	B22443HL B22444HL B22447HL B22448HL *B224M65HL* *B224M70HL* *B224M75HL*	B22443 B22444 B22447 B22448 *B224M65* *B224M70* *B224M75*	B22448-3H	B22443-5S B22448-5S B22448-5S B22448-5S B22443-5S B22448-5S B22448-5S	B22448-7	B22448-7C	B22448-6	P-B22448-0
80 85	3 3/16 3 7/16 3 1/2	B22451 B22455 B22456 *B224M80* *B224M85*	B22451HL B22455HL B22456HL *B224M80HL* *B224M85HL*	B22451 B22455 B22456 *B224M80* *B224M85*	B22456-3H	B22551-5S B22456-5S B22456-5S B22551-5S B22456-5S	B22456-7	B22456-7C	B22456-6	P-B22456-0
90 100	3 11/16 3 15/16 4	B22459 B22463 B22464 *B224M90* *B224M100*	B22459HL B22463HL B22464HL *B224M90HL* *B224M100HL*	B22459 B22463 B22464 *B224M90* *B224M100*	B22464-3H	B22464-5S	B22464-7	B22464-7C	B22464-6	P-B22464-0

▲ For variations in type and material, use prefix:

T — takeup unit
EFR — padded flanged unit
EP — pillow block, cast iron
F — flanged unit
FB — flanged bracket unit
FC — flanged cartridge unit
C — cartridge unit, cast iron
P — pillow block, cast iron
PK — pillow block, cast steel
PL — pillow block, low backing
DS — takeup unit

P-B22432 -0 For construction features, use suffix:
F — 4-bolt base pillow block (on 1 15/16" and larger shafts only)

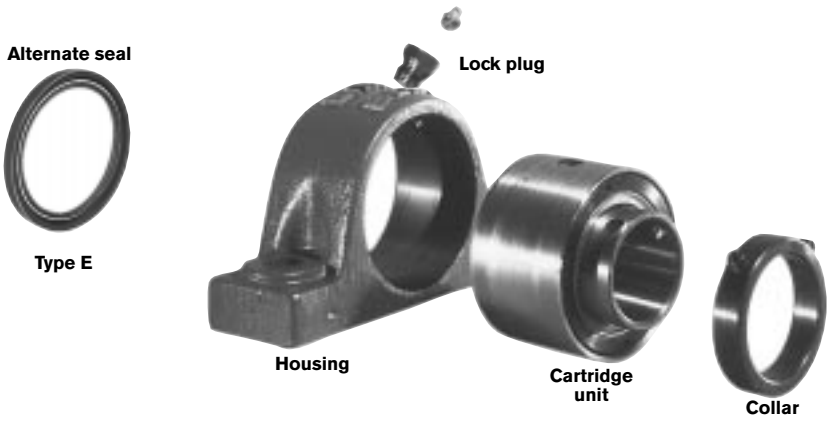
* Closed end units are assembled with two seals.

■ Floating labyrinth seals, suffix H, are furnished with B22400HL repair kits. For spring-loaded lip type seals specify B22400EL.

Spherical Roller Bearing Unit Replacement Parts

Series B22400

Expansion Type



Shaft diameter mm	Shaft diameter inches	Pillow block number ▲	Basic Bearing Designation	Repair kit ■	Components in repair kit: Type H■ multi-disc labyrinth seals (2 reqd.)	Components in repair kit: Collar with setscrews	Locking plug number: For pillow block	Locking plug number: For flanged unit	Housing number ▲
	1	PE-B22416H	B22416	CSE-B22416H	B22417-3H	B22416-5S	B22440-8A	B22440-8A	PE-B22417-OE
25		*PE-B224M25H*	*B224M25*	*CSE-B224M25H*					
	1 3/16	PE-B22419H	B22419	CSE-B22419H	B22420-3H	B22420-5S	B22440-8A	B22440-8A	PE-B22420-OE
	1 1/4	PE-B22420H	B22420	CSE-B22420H					
30		*PE-B224M30H*	*B224M30*	*CSE-B224M30H*					
	1 7/16	PE-B22423H	B22423	CSE-B22423H	B22424-3H	B22424-5S	B22440-8A	B22440-8A	PE-B22424-OE
	1 1/2	PE-B22424H	B22424	CSE-B22424H					
35		*PE-B224M35H*	*B224M35*	*CSE-B224M35H*					
	1 1/2	PE-B224B24H	B224B24	CSE-B224B24H	B22428-3H	B22524-5S	B22440-8A	B22440-8A	PE-B22428-OE
	1 5/8	PE-B22426H	B22426	CSE-B22426H		B22428-5S			
	1 11/16	PE-B22427H	B22427	CSE-B22427H		B22428-5S			
	1 3/4	PE-B22428H	B22428	CSE-B22428H		B22428-5S			
40		*PE-B224M40H*	*B224M40*	*CSE-B224M40H*		B22428-5S			
	1 3/4	PE-B224B28H	B224B28	CSE-B224B28H	B22432-3H	B22528-5S	B22440-8A	B22440-8A	PE-B22432-OE
	1 15/16	PE-B22431H	B22431	CSE-B22431H		B22432-5S			
	2	PE-B22432H	B22432	CSE-B22432H		B22432-5S			
45		*PE-B224M45H*	*B224M45*	*CSE-B224M45H*		B22432-5S			
50		*PE-B224M50H*	*B224M50*	*CSE-B224M50H*		B22432-5S			
	2 3/16	PE-B22435H	B22435	CSE-B22435H	B22436-3H	B22435-5S	B22440-8A	B22440-8A	PE-B22436-OE
	2 1/4	PE-B22436H	B22436	CSE-B22436H		B22436-5S			
55		*PE-B224M55H*	*B224M55*	*CSE-B224M55H*		B22436-5S			
	2 1/4	PE-B224B36H	B224B36	CSE-B224B36H	B22440-3H	B22536-5S	B22440-8A	B22440-8A	PE-B22440-OE
	2 7/16	PE-B22439H	B22439	CSE-B22439H		B22440-5S			
	2 1/2	PE-B22440H	B22440	CSE-B22440H		B22440-5S			
60		*PE-B224M60H*	*B224M60*	*CSE-B224M60H*		B22440-5S			
	2 11/16	PE-B22443H	B22443	CSE-B22443H	B22448-3H	B22443-5S	B22448-8A	B22448-8A	PE-B22448-OE
	2 3/4	PE-B22444H	B22444	CSE-B22444H		B22448-5S			
	2 15/16	PE-B22447H	B22447	CSE-B22447H		B22448-5S			
	3	PE-B22448H	B22448	CSE-B22448H		B22448-5S			
65		*PE-B224M65H*	*B224M65*	*CSE-B224M65H*		B22443-5S			
70		*PE-B224M70H*	*B224M70*	*CSE-B224M70H*		B22448-5S			
75		*PE-B224M75H*	*B224M75*	*CSE-B224M75H*		B22448-5S			
	3 3/16	PE-B22451H	B22451	CSE-B22451H	B22456-3H	B22551-5S	B22572-8A	B22572-8A	PE-B22456-OE
	3 7/16	PE-B22455H	B22455	CSE-B22455H		B22456-5S			
	3 1/2	PE-B22456H	B22456	CSE-B22456H		B22456-5S			
80		*PE-B224M80H*	*B224M80*	*CSE-B224M80H*		B22551-5S			
85		*PE-B224M85H*	*B224M85*	*CSE-B224M85H*		B22456-5S			
	3 11/16	PE-B22459H	B22459	CSE-B22459	B22464-3H	B22464-5S	B22448-8A	B22572-8A	PE-B22464-OE
	3 15/16	PE-B22463H	B22463	CSE-B22463					
	4	PE-B22464H	B22464	CSE-B22464					
90		*PE-B224M90H*	*B224M90*	*CSE-B224M90H*					
100		*PE-B224M100H*	*B224M100*	*CSE-B224M100H*					

▲ For variations in type and material, use prefix: PE-B22432 -0 For construction features, use suffix:

FE — flanged unit PE — pillow block, cast iron F — 4-bolt base pillow block

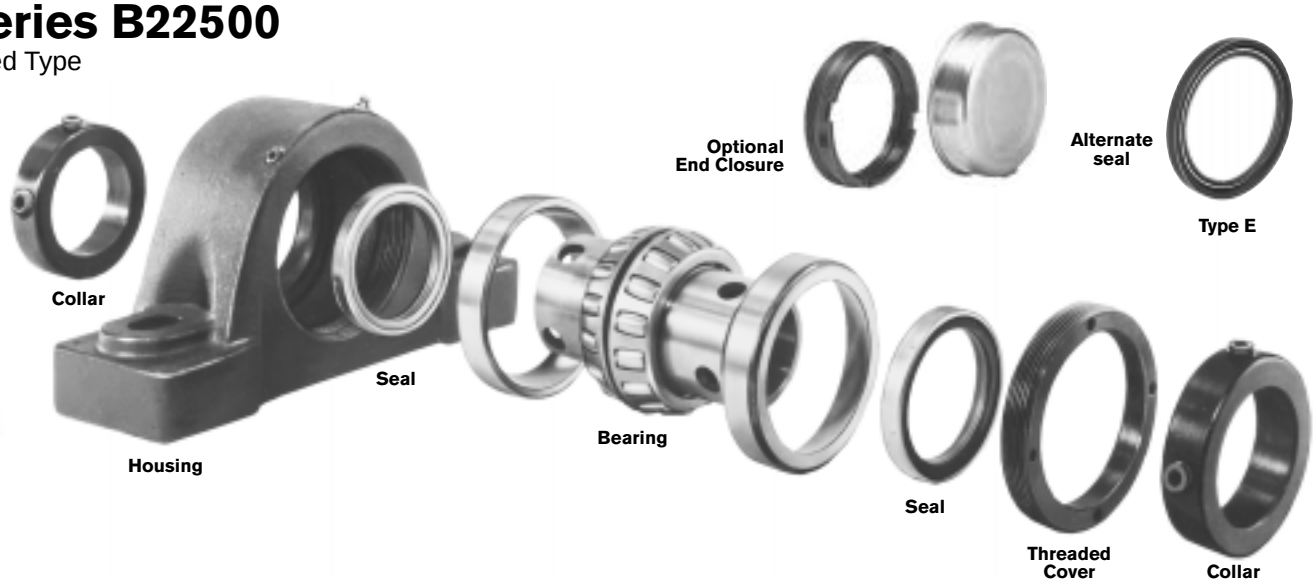
EPE — pillow block, cast iron PKE — pillow block, cast steel (on 1 15/16" and larger shafts only)

■ Floating labyrinth seals, suffix H, are furnished with CSE-B22400H repair kits. For spring-loaded lip type seals specify CSE-B22400E.

Spherical Roller Bearing Unit Replacement Parts

Series B22500

Fixed Type



Shaft diameter mm	Shaft diameter inches	Basic Bearing Designation ▲	Repair kit ■	Components in repair kit: Spherical roller bearing	Components in repair kit: Type H multi-disc labyrinth seals (2 reqd.)■	Components in repair kit: Collar with setscrews (2 included)	Threaded cover for open end	Threaded cover for closed end	End closure	Housing number ▲
	1 7/16	B22523	B22523HL	B22523	B22424-3H	B22424-5S	B22424-7	B22424-7C	B22424-6	P-B22523-0
	1 11/16	B22527	B22527HL	B22527	B22428-3H	B22428-5S	B22428-7	B22428-7C	B22428-6	P-B22527-0
	1 15/16	B22531	B22531HL	B22531	B22432-3H	B22432-5S	B22432-7	B22432-7C	B22432-6	P-B22531-0
	2	B22532	B22532HL	B22532	B22436-3H	B22435-5S	B22436-7	B22436-7C	B22436-6	P-B22535-0
	2 3/16	B22535	B22535HL	B22535						
	2 7/16	B22539	B22539HL	B22539	B22440-3H	B22440-5S	B22440-7	B22440-7C	B22440-6	P-B22539-0
	2 11/16	B22543	B22543HL	B22543	B22448-3H	B22443-5S	B22448-7	B22448-7C	B22448-6	P-B22547-0
	2 15/16	B22547	B22547HL	B22547		B22448-5S				
	3 7/16	B22555	B22555HL	B22555	B22456-3H	B22456-5S	B22456-7	B22456-7C	B22456-6	P-B22556F-0
	3 15/16	B22563	B22563HL	B22563	B22464-3H	B22464-5S	B22464-7	B22464-7C	B22464-6	P-B22564F-0
	4	B22564	B22564HL	B22564						
	4 3/16	B22567	B22567HL	B22567	B22572-3H	B22571-5S	B22572-7	B22572-7C	B22572-6	P-B22572F-0
	4 7/16	B22571	B22571HL	B22571		B22571-5S				
	4 1/2	B22572	B22572HL	B22572		B22572-5S				
110		*B225M110*	*B225M110HL*	*B225M110*		B22571-5S				
115		*B225M115*	*B225M115HL*	*B225M115*		B22572-5S				
	4 15/16	B22579	B22579HL	B22579	B22580-3H	B22580-5S	B22580-7	B22580-7C	B22580-6	P-B22580F-0
	5	B22580	B22580HL	B22580						
125		*B225M125*	*B225M125HL*	*B225M125*						

▲ For variations in type and material, use prefix: P-B22531 -0 For construction features, use suffix:

P — pillow block, cast iron — F — 4-bolt base pillow block

PK — pillow block, cast steel (on 1 15/16" and larger shafts only)
(for 4 3/16", 110 mm and larger shaft only)

DSH — takeup unit

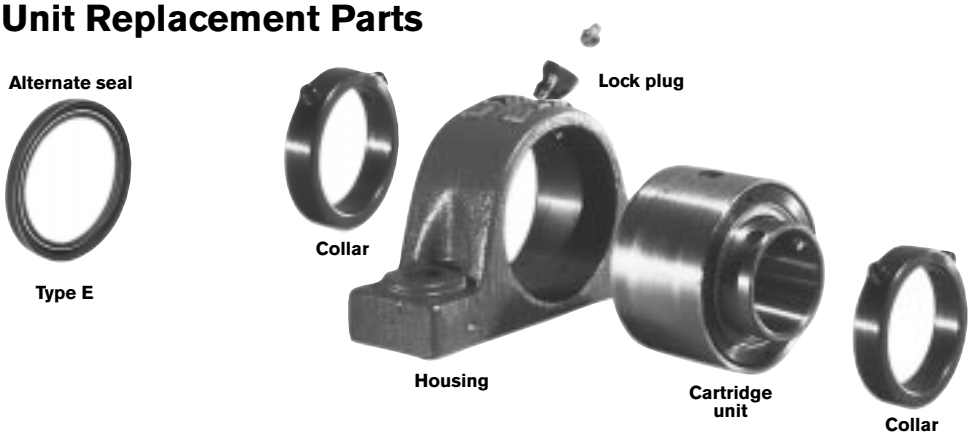
■ Floating labyrinth seals, suffix H, are furnished with B22500HL repair kits. For spring-loaded lip type seals specify B22500EL.

* Closed end units are assembled with two seals.

Spherical Roller Bearing Unit Replacement Parts

Series B22500

Expansion Type



Shaft diameter mm	Shaft diameter inches	Pillow block number	Basic Bearing Designation	Repair kit ■	Components in repair kit: Type H multi-disc labyrinth seals (2 reqd.)■	Components in repair kit: Collar with setscrews (2 included)	Locking plug number	Housing number ▲
	1 7/16	PE-B22523H	B22523	CSE-B22523H	B22424-3H	B22424-5S	B22440-8A	PE-B22523-OE
	1 11/16	PE-B22527H	B22527	CSE-B22527H	B22428-3H	B22428-5S	B22448-8A	PE-B22527-OE
	1 15/16	PE-B22531H	B22531	CSE-B22531H	B22432-3H	B22432-5S	B22448-8A	PE-B22531-OE
	2	PE-B22532H	B22532	CSE-B22532H	B22436-3H	B22435-5S	B22448-8A	PE-B22535-OE
	2 3/16	PE-B22535H	B22535	CSE-B22535H				
	2 7/16	PE-B22539H	B22539	CSE-B22539H	B22440-3H	B22440-5S	B22448-8A	PE-B22539-OE
	2 11/16	PE-B22543H	B22543	CSE-B22543H	B22448-3H	B22443-5S	B22572-8A	PE-B22547-OE
	2 15/16	PE-B22547H	B22547	CSE-B22547H		B22448-5S		
	3 7/16	PE-B22555FH	B22555	CSE-B22555H	B22456-3H	B22456-5S	B22580-8A	PE-B22556F-OE
	3 15/16	PE-B22563FH	B22563	CSE-B22563H	B22464-3H	B22464-5S	B22572-8A	PE-B22564F-OE
	4	PE-B22564FH	B22564	CSE-B22564H				
	4 3/16	PE-B22567FH	B22567	CSE-B22567H	B22572-3H	B22571-5S	B22572-8A	PE-B22572F-OE
	4 7/16	PE-B22571FH	B22571	CSE-B22571H		B22571-5S		
	4 1/2	PE-B22572FH	B22572	CSE-B22572H		B22572-5S		
110		*PE-B225M110FH*	*B225M110*	*CSE-B225M110H*		B22571-5S		
115		*PE-B225M115FH*	*B225M115*	*CSE-B225M115H*		B22572-5S		
	4 15/16	PE-B22579FH	B22579	CSE-B22579H	B22580-3H	B22580-5S	B22580-8A	PE-B22580F-OE
	5	PE-B22580FH	B22580	CSE-B22580H				
125		*PE-B225M125FH*	*B225M125*	*CSE-B225M125H*				

Expansion units cannot be furnished with closed end caps.

4 3/16", 110 mm and larger shafts are available with cast steel housing, use prefix PKE i.e., PKE-B22567FH.

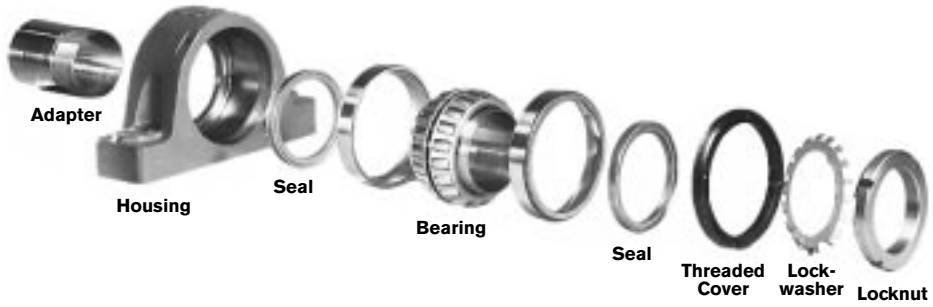
▲ For pillow block with 4-bolt base, use suffix F (on 1 15/16" and larger shafts only).

■ Floating labyrinth seals, suffix H, are furnished with CSE-B22500H repair kits. For spring-loaded lip type seals specify CSE-B22500E.

Spherical Roller Bearing Unit Replacement Parts

Max Mount™ Series B22600

Fixed Type



Shaft diameter inches	Basic Bearing Designation ▲	Repair kit ■	Components in repair kit: Spherical roller bearing	Components in repair kit: Type H multi-disc labyrinth seals (2 reqd.)■	Components in repair kit: Adapter assembly†	Threaded cover for open end	Threaded cover for closed end	End closure *	Housing number ▲
1 7/16	B22623	B22623HL	B22623	B22424-3H	SNW623-1 7/16	B22424-7	B22424-7C	B22424-6	P-B22424-0
1 15/16	B22631	B22631HL	B22631	B22432-3H	SNW631-1 15/16	B22432-7	B22432-7C	B22432-6	P-B22432-0
2 3/16	B22635	B22635HL	B22635	B22436-3H	SNW635-2 3/16	B22436-7	B22436-7C	B22436-6	P-B22436-0
2 7/16	B22639	B22639HL	B22639	B22440-3H	SNW639-2 7/16	B22440-7	B22440-7C	B22440-6	P-B22440-0
2 11/16 2 15/16	B22643 B22647	B22643HL B22647HL	B22643 B22647	B22448-3H	SNW647-2 11/16 SNW647-2 15/16	B22448-7	B22448-7C	B22448-6	P-B22448-0
3 7/16	B22655	B22655HL	B22655	B22456-3H	SNW655-3 7/16	B22456-7	B22456-7C	B22456-6	P-B22456-0
3 15/16	B22663	B22663HL	B22663	B22464-3H	SNW663-3 15/16	B22464-7	B22464-7C	B22464-6	P-B22464-0
4 7/16	B22671	B22671HL	B22671	B22572-3H	SNW671-4 7/16	B22572-7	B22572-7C	B22572-6	P-B22572F-0
4 15/16	B22679	B22679HL	B22679	B22580-3H	SNW679-4 7/16	B22580-7	B22580-7C	B22580-6	P-B22580F-0

▲For variations in type and material, use prefix:
T — takeup unit
EF — padded flanged unit
EP — pillow block, cast iron
F — flanged unit
FB— flanged bracket unit
FC— flanged cartridge unit
P— pillow block, cast iron
PK— pillow block, cast steel

P-B22631 -0 For construction features, use suffix:
F— 4-bolt base pillow block (on 1 15/16" and larger shafts only)

* Closed end units are assembled with two seals.

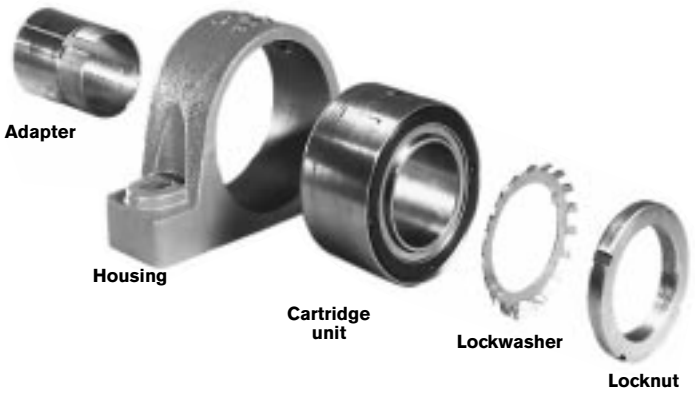
■ Floating labyrinth seals, suffix H, are furnished with B22600HL repair kits. For spring-loaded lip type seals specify B22600EL.

† — Adapter assembly consists of adapter, lockwasher and locknut.

Spherical Roller Bearing Unit Replacement Parts

Max Mount™ B22600

Expansion Type



Shaft diameter inches	Pillow block number ▲	Basic Bearing Designation	Repair kit ■	Components in repair kit: Type H■ multi-disc labyrinth seals (2 reqd.)	Components in repair kit: Adapter assembly†	Locking plug number: For pillow block	Locking plug number: For flanged unit	Housing number ▲
1 7/16	PE-B22623H	B22623	CSE-B22623H	B22424-3H	SNW623-1 7/16	B22440-8A	B22440-8A	PE-B22424-OE
1 15/16	PE-B22631H	B22631	CSE-B22631H	B22432-3H	SNW631-1 15/16	B22440-8A	B22440-8A	PE-B22432-OE
2 3/16	PE-B22635H	B22635	CSE-B22635H	B22436-3H	SNW635-2 3/16	B22440-8A	B22440-8A	PE-B22436-OE
2 7/16	PE-B22639H	B22639	CSE-B22639H	B22440-3H	SNW639-2 7/16	B22440-8A	B22440-8A	PE-B22440-OE
2 11/16 2 15/16	PE-B22643H PE-B22647H	B22643 B22647	CSE-B22643H CSE-B22647H	B22448-3H	SNW647-2 11/16 SNW647-2 15/16	B22448-8A	B22448-8A	PE-B22448-OE
3 7/16	PE-B22655H	B22655	CSE-B22655H	B22456-3H	SNW655-3 7/16	B22572-8A	B22572-8A	PE-B22456-OE
3 15/16	PE-B22663H	B22663	CSE-B22663H	B22464-3H	SNW663-3 15/16	B22448-8A	B22572-8A	PE-B22464-OE
4 7/16	PE-B22671H	B22671	CSE-B22671H	B22572-3H	SNW671-4 7/16	B22572-8A		PE-B22572F-OE
4 15/16	PE-B22679H	B22679	CSE-B22679H	B22580-3H	SNW679-4 15/16	B22580-8A		PE-B22580F-OE

▲ For variations in type and material, use prefix:
FE — flanged unit
EPE — pillow block, cast iron
PE — pillow block, cast iron
PKE — pillow block, cast steel

PE-B22631 -0

For construction features, use suffix:
F — 4-bolt base pillow block (on 1 15/16" and larger shafts only)

■ Floating labyrinth seals, suffix H, are furnished with CSE-B22600H repair kits. For spring-loaded lip type seals specify CSE-B22600E.

† — Adapter assembly consists of adapter, lockwasher and locknut.

Additional Information

Series B22400 and B22500

Housing End Closures:

All fixed type B22400 and B22500 mounted units can be purchased with formed steel closed end caps on the collar side which covers all rotating elements. Two housing seals are provided to protect the bearing during mounting or in case of accidental cap removal. Closed end units have a special extended threaded cover for mounting the end cap. They are designated with the suffix HHC or EEC (i.e., P-B22431HHC). Shafting should not extend beyond the end of the bearing inner ring more than ⅛" *(3.2 mm)* when end caps are to be used.

Housing Mounting:

Series B22400 and B22500 mounted units have drilled or cored mounting bolt holes suitable for the inch or metric bolts listed. Drilled holes will be 1/32" *(0.8 mm)* larger than the largest inch bolt shown. Cast slots in pillow blocks are normally 1/16" wider than the specified mounting bolt nominal diameter. It is expected that plain washers will be used under the bolt head to span the slot width and aid torquing. Narrow (N) series washers per ANSI B18.22.1-1981 (previously designated SAE series) are recommended. If wide series washers are used, the full length of the slot may not be usable for positioning the unit.

Replacement Parts:

Bearings and seals can be replaced in Series B22400 and B22500 mounted units (except CSE units). Replacement parts are listed on pages D-62 through D-65. Service instructions for mounting are included with each unit or replacement bearing and should be closely followed. Replacement bearings are not prelubricated but are coated with a mineral base preservative and should be further protected from moisture and dirt, especially during installation.

Operation:

Series B22400 and B22500 mounted units are prelubricated with a good quality petroleum grease of No. 2 consistency which has been tested for operational characteristics and stability for long shelf life. The service instructions packed with each unit provide guidelines for relubrication intervals and recommended greases. The lubricant furnished is generally limited to an operating temperature range of –20°F to +200°F *(–29° to 93°C)*. The lip seal E should be limited to a temperature less than 225°F *(107°C)*.

Where significant thrust loads are applied to B22400 or B22500 mounted units, thrust collars, spacers, shaft shoulders etc. should be utilized to support the thrust so that it is not transmitted through the locking collars and set screws.

These units have a misalignment capability of ±2°. They are factory adjusted with sufficient clearance for operation within stated speed limits.

Takeups:

The mounting of B22400 and B22500 pillow blocks on universal LHD takeup frames is illustrated on page D-22. Smaller pillow blocks can be mounted on LC frames, see page B-60.

Fixed and Expansion Units:

Fixed and expansion type units are available in series B22400 and B22500 pillow blocks and flanged units. As these units are designed for slip fitted shafts, collar mounted, two fixed units can usually be applied to a shaft. Expansion units are recommended for use on one end of longer shafts, where supports are not steel or where significant temperature differentials are expected between shafts and mounting structures.

Recommended Shaft Tolerances

Shaft Diameter	Tolerance
1"–2"	Nominal to –.0005"
2 1/16"–5"	Nominal to –.0010"
17 mm–50 mm	Nominal to –0.013 mm
55 mm–125 mm	Nominal to –0.025 mm

CAUTION The above shaft tolerances are suitable for loads up to .18 C and an L_{10} life greater than 20,000 hours. For more severe conditions, consult Rexnord Corporation.

The service life of a collar mounted bearing is largely dependent on shaft fit and may be expected to approach theoretical L_{10} life only if the bearing is press fitted to a shaft. A slip fit mounting in accordance with the shaft tolerances shown in table will provide generally acceptable service life on normal applications under light to moderate load and speed conditions. A shaft tolerance resulting in looser fits (such as with commercial shafting) may be expected to have greatly reduced reliability and increasing problems of shaft fret wear, bearing inner ring fracture and shaft slippage. In general, looser fits than recommended are feasible only for very light loading and lower speeds. Prototype or field testing is strongly recommended if looser fits must be considered.

Shafting should be designed for adequate strength and stiffness for the intended application. It should be round, straight, free of nicks and burrs and of correct size.

Warning:

The correct selection of bearings or mounted units requires that the magnitude and nature of all loads, speeds, alignment, mounting, operating requirements, and maintenance be adequately considered. The selection of materials for and design of housings, shafting, fasteners, seals, and accessories, as well as provisions for installation and maintenance, must follow good engineering principles.

Housings must be selected and installed with regard to the degree and direction of the forces that will occur. Housings should not be used under tension loads except with adequate safety factors. For this reason pillow blocks are best suited to withstand radial loads passing through the base. When heavy loads or shock loads are possible, it is most important to mount a unit so that the unit is directly and substantially supported other than through its mounting bolts. Where the line of force falls outside the base, such as with horizontal or uplift loads on pillow blocks, serious housing and fastener deflection or failure may occur. These conditions may require designs using different materials, fasteners, mounting design, stops bars, etc., together with proper safety factors. When these conditions are unavoidable Link-Belt Bearing Division, Rexnord Corp. should be consulted.

Service instructions are provided with shipments of bearings and are available on request. These instructions provide detailed information to aid in the proper installation, operation, and maintenance, and should be carefully read and followed. Failure to do so may result in unsatisfactory service as well as serious personal injury or property damage.

Additional Information

Max Mount™ Series B22600

Housing End Closures:

All fixed type B22600 mounted units can be purchased with formed steel closed end caps on the collar side which covers all rotating elements. Two housing seals are provided to protect the bearing during mounting or in case of accidental cap removal. Closed end units have a special extended threaded cover for mounting the end cap. They are designated with the suffix HHC or EEC (i.e., P-B22631HHC). Shafting should not extend beyond the end of the bearing inner ring more than ⅛" *(3.2 mm)* when end caps are to be used.

Housing Mounting:

Series B22600 mounted units have drilled or cored mounting bolt holes suitable for the inch or metric bolts listed. Drilled holes will be 1/32" *(0.8 mm)* larger than the largest inch bolt shown. Cast slots in pillow blocks are normally 1/16" wider than the specified mounting bolt nominal diameter. It is expected that plain washers will be used under the bolt head to span the slot width and aid torquing. Narrow (N) series washers per ANSI B18.22.1-1981 (previously designated SAE series) are recommended. If wide series washers are used, the full length of the slot may not be usable for positioning the unit.

Replacement Parts:

Bearings and seals can be replaced in Series B22600 mounted units (except CSE units). Replacement parts are listed on pages D-66 and D-67. Service instructions for mounting are included with each unit or replacement bearing and should be closely followed. Replacement bearings are not prelubricated but are coated with a mineral base preservative and should be further protected from moisture and dirt, especially during installation.

Operation:

Series B22600 mounted units are prelubricated with a good quality petroleum grease of No. 2 consistency which has been tested for operational characteristics and stability for long shelf life. The service instructions packed with each unit provide guidelines for relubrication intervals and recommended greases. The lubricant furnished is generally limited to an operating temperature range of –20°F to +200°F *(–29° to 93°C)*. The lip seal E should be limited to a temperature less than 225°F *(107°C)*.

Where significant thrust loads are applied to B22600 mounted units, thrust collars, spacers, shaft shoulders etc. should be utilized to support the thrust so that it is not transmitted through the locking collars and set screws.

These units have a misalignment capability of ±2°. They are factory adjusted with sufficient clearance for operation within stated speed limits.

Takeups:

The mounting of B22600 pillow blocks on universal LHD takeup frames is illustrated on page D-22. Smaller pillow blocks can be mounted on LC frames, see page B-60.

Fixed and Expansion Units:

Fixed and expansion type units are available in series B22600 pillow blocks and flanged units. Expansion units are recommended for use on one end of the shaft, unless special consideration is taken into account for axial movement when mounting the adapter assemblies. In the case of fixed units only, consult the Link-Belt Bearing Division for proper mounting instructions.

Recommended Shaft Tolerances

Shaft Diameter	Tolerance
1"–2"	Nominal to –.003"
2 1/16"–4"	Nominal to –.004"
3 1/16"–5"	Nominal to –.005"
17 mm–50 mm	Nominal to –0.076 mm
55 mm–100 mm	Nominal to –0.102 mm
110 mm–125 mm	Nominal to –0.127 mm

CAUTION The above shaft tolerances are suitable for loads up to .18C and an L10 life greater than 20,000 hours. For more severe conditions, consult the Rexnord Corporation.

The service life of an adapter mounted bearing is largely dependent on a correctly tightened adapter. Improperly tightened bearings and adapter assemblies may slip or turn on the shaft. The proper procedure for tightening the adapter assembly is specified in the service instructions B-RBU-47. Refer to these instructions before mounting the B22600 series bearings.

The shafting should be designed for adequate strength and stiffness for the intended application. It should be round, straight, free of nicks and burrs and of the correct size.

Warning:

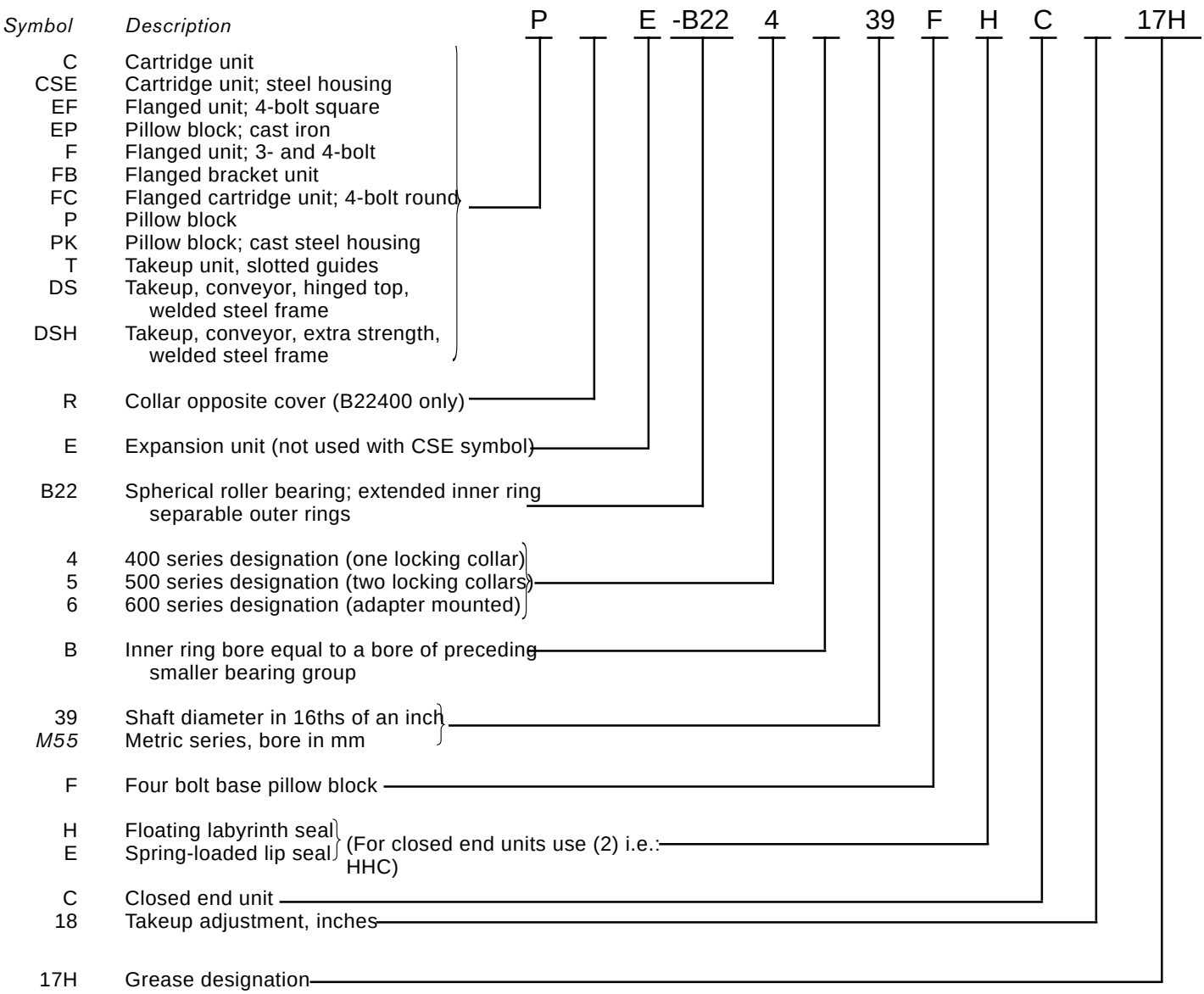
The correct selection of bearings or mounted units requires that the magnitude and nature of all loads, speeds, alignment, mounting, operating requirements, and maintenance be adequately considered. The selection of materials for and design of housings, shafting, fasteners, seals, and accessories, as well as provisions for installation and maintenance, must follow good engineering principles.

Housings must be selected and installed with regard to the degree and direction of the forces that will occur. Housings should not be used under tension loads except with adequate safety factors. For this reason pillow blocks are best suited to withstand radial loads passing through the base. When heavy loads or shock loads are possible, it is most important to mount a unit so that the unit is directly and substantially supported other than through its mounting bolts. Where the line of force falls outside the base, such as with horizontal or uplift loads on pillow blocks, serious housing and fastener deflection or failure may occur. These conditions may require designs using different materials, fasteners, mounting design, stops bars, etc., together with proper safety factors. When these conditions are unavoidable Link-Belt Bearing Division, Rexnord Corp. should be consulted.

Nomenclature

Series B22400, B22500 and B22600

Spherical Roller Bearing Units



The nomenclature shown is provided to identify the basic and optional features of bearing and mounted unit assemblies. The most commonly specified variations are listed; however, availability of all variations cannot be assumed. Link-Belt Bearing Division, Rexnord Corp. should be consulted regarding optional features, availability, and the application requirements.