

Sleeve bearings

Features/Benefits

Sleeve bearings

Solidlube



Self-lubricating, statically self-aligning bearings for extreme industrial applications

- Good in temperature extremes and inaccessible locations
- Will function effectively in a vacuum
- Ideal where bearings are subject to dry cycles or where lube systems would be too costly
- Usable in many corrosive (chemical) medias
- Will operate in submersible applications of some low viscosity liquids
- Recommended for slow speeds and limited shaft movement applications

Sleeve Bearings

Specification/How to order

Sleeve bearings

How to order sleeve bearings

There are two ways to specify Dodge Sleeve bearings. Most of the product offering have part numbers with listings shown throughout this catalog. Use of part numbers ensures accurate order processing.

When part numbers are not shown, the product may be specified by description or part name. This method is used when ordering units that include modifications or options. To order by description, use the nomenclature key shown on page B17-5 and add any special instructions to the end of the description for options not covered by the nomenclature.

Solidlube

Statically self-aligning, non-galling, solid-film lubricating for temperature extremes.

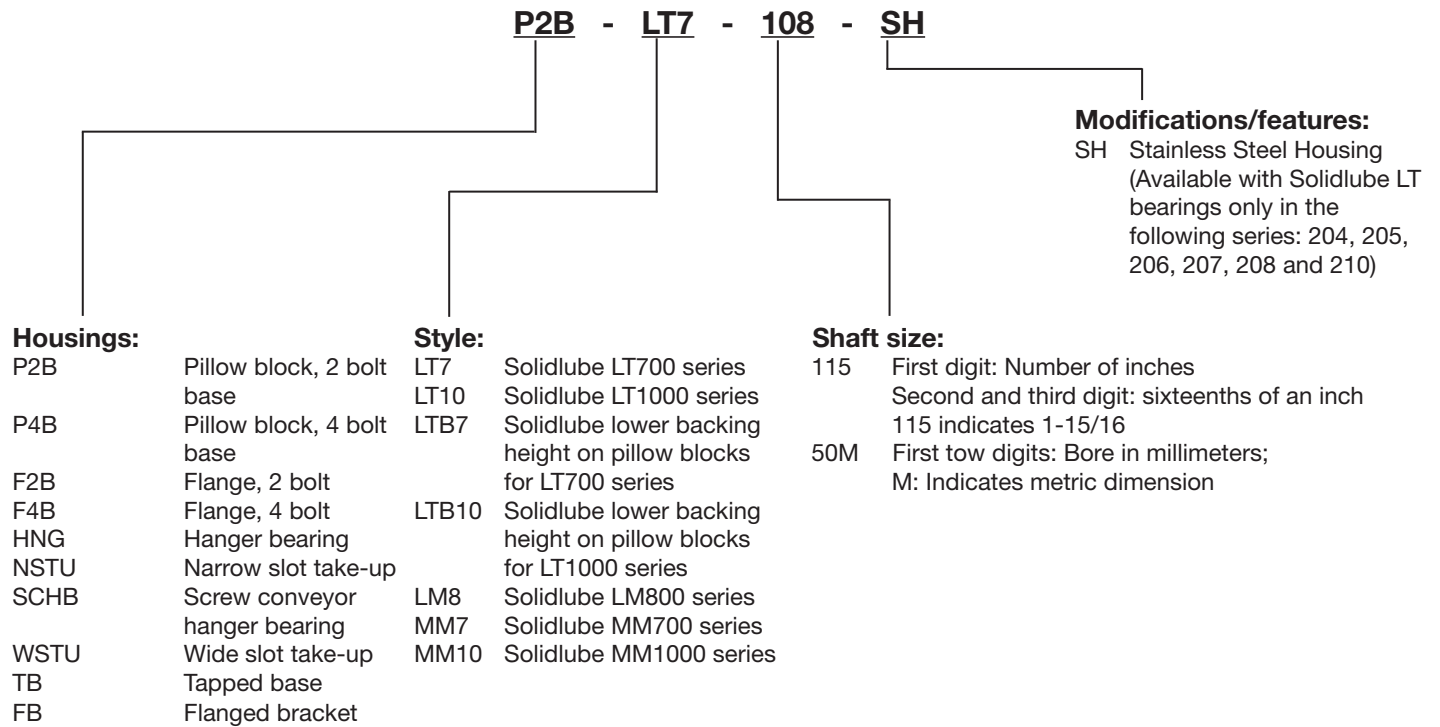
- 700 series: -40° to 370°C (-40° to 700°F)
- 1000 series: -128° to -40°C (-200° to -40°F);
120°C to 537°C (250° to 1,000°F)
- 800 series: -40° to 426°C (-40° to 800°F)

Also suitable for submerged and limited movement applications.

Sleeve bearings

Nomenclature

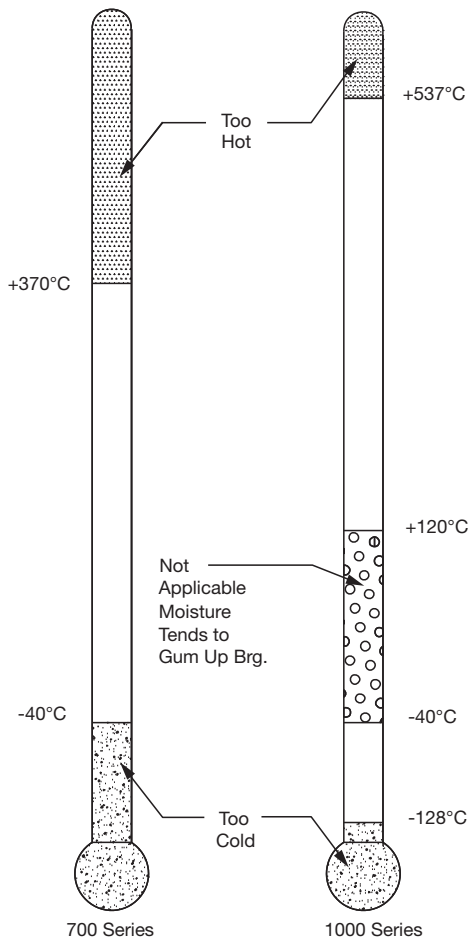
Sleeve bearing nomenclature



Sleeve bearings

Selection

Sleeve bearings - Solidlube - Metric



SOLIDLUBE Bearing Operating Temperature

Bearing size

Select a bearing from tables for normal loads or loads in limited shaft movement applications having a radial load equal to or greater than the actual load. This simple method is all that is required for the majority of general machine applications using commercial steel shafting and operating in a dry atmosphere. (For more favorable conditions, ratings may be increased somewhat; consult factory). Shaft collars may be used for slight amounts of thrust. Generally the rule of 10% of the radial load applies. Dirty environments will reduce bearing life and should be avoided. Losses due to friction can be as high as 30% depending on speed, load, temperature and shaft material.

Shafting

Commercial steel shafting is good in applications where temperatures do not exceed 370°C. However, for extended bearing life, at any temperature, the shaft should be hardened to 35 Rockwell .C. or better. Shaft finish should be 0.25 to 0.50 micrometres. A finish rougher than 0.50 micrometres will lessen bearing life. A finish smoother than R_a . 0.25 micrometres will not allow the optimum lubricant film to develop. Shaft tolerance should be +0.000/-0.051 millimeters (+0.000/-0.002 inches) for commercial steel shafting. If using other shaft materials, consult Dodge for the shaft tolerance and thermal expansion.

When commercial shafting is exposed to a corrosive media, it will oxidize. A rusty shaft will grow in the bearing, thus eliminating clearances. In this case stainless steel shafting may be used and/or provide for regularly scheduled movement of shaft. In elevated temperatures stainless grades such as 17-4, 15-5, or 13-8 are hardenable. Shafts can be spray coated with ceramic or hard chrome. This is good up to about 425°C. Check with your supplier, since these coatings can flake off when the coefficient of thermal expansion of the base material differs greatly from that of the coating.

High grade specialty shafting may be used in excess of 537°C. It may be less expensive to use sleeves of this material on more economical shafting.

Noise or high pitched squeal

Carbon-graphite bushings can develop a high frequency vibration in resonance with the operating system to cause noise. Dampening or change of resonant frequency of the shaft is required to eliminate noise.

Specials

Solidlube bearings or bearings made from alternate bushing materials such as polymers, fibers, bronze, etc. for unusual operating and load conditions are available on a specially engineered basis by supplying the following:

- Shaft size, material and rpm.
- Normal load, shock load and frequency.
- Direction of load.
- Ambient temperature and atmospheric conditions (water, dirt, corrosive, etc.)
- Type of bearing: pillow block, flange bearing, etc.
- Housing material desired.
- Quantity.

End closures

Ball bearing end closures are available (Page 4-102).

Note: Solidlube bearings are not designed for rotating housing applications

Sleeve bearings

Selection

Sleeve bearings - Solidlube - metric Solidlube bearing 700 and 1000 series

Solidlube bearing 700 and 1000 series radial load ratings in newtons (N) normal loads

| Series | Shaft size | Radial load ratings in N (lb) at various revolutions per minute | | | | | | | | | | | |
|--------|------------|---|-----------------|-----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | 10 | 25 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| 204 | 20mm | 2490 (560) | 2490 (560) | 2490 (560) | 2490 (560) | 2490 (560) | 1690 (380) | 1270 (286) | 1020 (229) | 840 (189) | 730 (164) | 640 (144) | 560 (126) |
| 205 | 25mm | 3340 (751) | 3340 (751) | 3340 (751) | 3340 (751) | 2710 (609) | 1800 (405) | 1400 (315) | 1090 (245) | 910 (205) | 780 (175) | 690 (155) | 580 (130) |
| 206 | 30mm | 4670 (1050) | 4670 (1050) | 4670 (1050) | 4040 (908) | 3020 (679) | 2000 (450) | 1510 (339) | 1200 (270) | 1000 (225) | 840 (189) | 760 (171) | 670 (151) |
| 207 | 35mm | 7160 (1610) | 7160 (1610) | 7160 (1610) | 5070 (1140) | 3800 (854) | 2540 (571) | 1910 (429) | 1510 (339) | 1240 (279) | 1090 (245) | 960 (216) | 840 (189) |
| 209 | 40mm, 45mm | 8800 (1978) | 8800 (1978) | 7960 (1789) | 5290 (1189) | 3980 (895) | 2650 (596) | 1960 (441) | 1740 (391) | 1310 (295) | 1130 (254) | 980 (220) | 890 (200) |
| 210 | 50mm | 10500 (2361) | 10500 (2361) | 8270 (1859) | 5520 (1241) | 4140 (931) | 2760 (620) | 2070 (465) | 1650 (371) | 1380 (310) | 1180 (265) | 1040 (234) | 910 (205) |
| 212 | 60mm | 16700 (3754) | 16700 (3754) | 10500 (2361) | 7030 (1580) | 5250 (1180) | 3540 (796) | 2620 (589) | 2110 (474) | 1730 (389) | 1510 (339) | 1310 (295) | 1180 (265) |
| 215 | 70mm, 75mm | 26500 (5957) | 26500 (5957) | 13900 (3125) | 9200 (2068) | 6940 (1560) | 4630 (1041) | 3470 (780) | 2780 (625) | 2290 (515) | 1980 (445) | 1740 (391) | 1540 (346) |

| Series | Shaft size | Radial load ratings in newtons at various revolutions per minute | | | | | | | | | | | | |
|--------|------------|--|---------------|---------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 500 | 550 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1300 | 1600 | 1900 | 2200 | 2500 |
| 204 | 20mm | 490 (110) | 470 (106) | 430 (97) | 360 (81) | 320 (72) | 200 (45) | 250 (56) | 230 (52) | 200 (45) | 160 (36) | 130 (29) | 120 (27) | 100 (22) |
| 205 | 25mm | 530 (119) | 490 (110) | 470 (106) | 400 (90) | 360 (81) | 310 (70) | 270 (61) | 240 (54) | 210 (47) | 170 (38) | 140 (31) | | |
| 206 | 30mm | 600 (135) | 560 (126) | 510 (115) | 430 (97) | 380 (85) | 330 (74) | 300 (67) | 280 (63) | 190 (43) | 190 (43) | | | |
| 207 | 35mm | 760 (171) | 690 (155) | 640 (144) | 530 (119) | 470 (106) | 420 (94) | 380 (85) | 350 (79) | 300 (67) | | | | |
| 209 | 40mm, 45mm | 800 (180) | 730 (164) | 670 (151) | 580 (130) | 490 (110) | 440 (99) | 400 (90) | 360 (81) | | | | | |
| 210 | 50mm | 820 (184) | 760 (171) | 690 (155) | 600 (135) | 510 (115) | 470 (106) | | | | | | | |
| 212 | 60mm | 1040 (234) | 960 (216) | 870 (196) | 760 (171) | | | | | | | | | |
| 215 | 70mm, 75mm | 1530 (344) | 1400 (315) | 1290 (290) | | | | | | | | | | |

Note: The above ratings apply to all base loaded pillow blocks, all cylindrical units and flange type bearings (up to 370°C). For flange bearings operating at temperatures above 370°C, cap and side loading of pillow blocks, please consult your local ABB office for assistance. For operation speeds below heavy line, use LT1000 and/or hardened shaft.

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.

Note: Dimensions are in MM (in)

Solidlube bearings

700 series and 1000 series

Radial load ratings in newtons (N)

(Limited shaft movement applications) ▲

| Series | Shaft size | Max. radial load, N (lb) | | Max. thrust load, N (lb) |
|--------|------------|--------------------------|---------------------|--------------------------|
| | | Base loaded | Cap or side loading | |
| 204 | 20mm | 4890 (1099) | 3450 (776) | 250 (56) |
| 205 | 25mm | 6670 (1499) | 3540 (796) | 330 (74) |
| 206 | 30mm | 9340 (2100) | 3650 (821) | 470 (106) |
| 207 | 35mm | 14200 (3192) | 7600 (1709) | 720 (162) |
| 209 | 40mm, 45mm | 17800 (4002) | 8470 (1904) | 880 (198) |
| 210 | 50mm | 20900 (4699) | 8540 (1920) | 1050 (236) |
| 212 | 60mm | 33400 (7509) | 10500 (2361) | 1670 (375) |
| 215 | 70mm, 75mm | 53400 (12005) | 18500 (4159) | 2660 (598) |

▲ Use only when shaft movement is limited to approx. ± 90°

Movement is infrequent as opposed to continuous and maximum bearing temperature is 370°C.

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.

Note: Dimensions are in MM (in)

Sleeve bearings

Selection

Sleeve bearings - Solidlube - Inch

Bearing size

Select a bearing from tables for normal loads or loads in limited shaft movement applications having a radial load equal to or greater than the actual load. This simple method is all that is required for the majority of general machine applications using commercial steel shafting and operating in a dry atmosphere. (For more favorable conditions, ratings may be increased somewhat; consult factory). Shaft collars may be used for slight amounts of thrust. Generally the rule of 10% of the radial load applies. Dirty environments will reduce bearing life and should be avoided. Losses due to friction can be as high as 30% depending on speed, lead, temperature and shaft material.

Shafting

Commercial steel shafting is good in applications where temperatures do not exceed 371°C (700°F). However, for extended bearing life, at any temperature, the shaft should be hardened to 35 Rockwell .C. or better. Shaft finish should be .00025 to .0005mm (10 to 20 micro-inches). A finish rougher than 0.0005mm (20μ) will lessen bearing life. A finish smoother than 0.00025 (10) will not allow the optimum lubricant film to develop. Shaft tolerance should be +0.0001 to 0.05 (+.000/- .002) for commercial steel shafting. If using other shaft materials, consult Dodge for the shaft tolerance and thermal expansion.

When commercial shafting is exposed to a corrosive media, it will oxidize. A rusty shaft will grow in the bearing, thus eliminating clearances. In this case stainless steel shafting may be used and/or provide for regularly scheduled movement of shaft. In elevated temperatures stainless grades such as 17-4, 15-5, or 13-8 are hardenable. Shafts can be spray coated with ceramic or hard chrome. This is good up to about 426°C (800°F). Check with your supplier, since these coatings can flake off when the coefficient of thermal expansion of the base material differs greatly from that of the coating.

High grade specialty shafting may be used in excess of 537°C (1000°F). It may be less expensive to use sleeves of this material on more economical shafting.

Noise or high pitched squeal

Carbon-graphite bushings can develop a high frequency vibration in resonance with the operating system to cause noise. Dampening or change of resonant frequency of the shaft is required to eliminate noise.

Specials

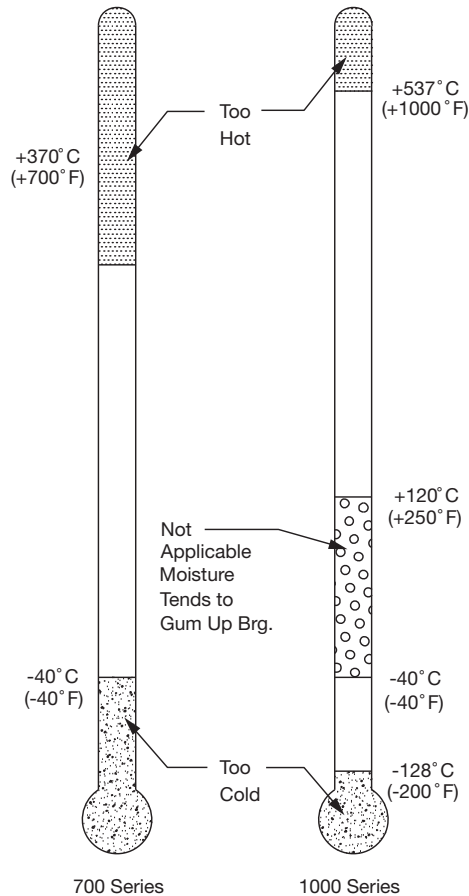
Solidlube bearings or bearings made from alternate bushing materials such as polymers, fibers, bronze, etc. for unusual operating and load conditions are available on a specially engineered basis by supplying the following:

- Shaft size, material and rpm.
- Normal load, shock load and frequency.
- Direction of load.
- Ambient temperature and atmospheric conditions (water, dirt, corrosive, etc.)
- Type of bearing: pillow block, flange bearing, etc.
- Housing material desired.
- Quantity.

End covers

Ball bearing end covers are available (4-102).

Note: Solidlube bearings are not designed for rotating housing applications



SOLIDLUBE Bearing Operating Temperature

Sleeve bearings

Selection

Sleeve bearings - Solidlube - inch Solidlube 700, 1000 and 800 series

Solidlube bearing 700 and 1000 series radial load ratings in pounds (normal loads)

| Shaft size | Radial load ratings in N (lb) at various revolutions per minute | | | | | | | | | | | |
|--------------------------------|---|---------------|--------------|--------------|--------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | Up to 10 | 25 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| 3/4 | 2491 (560) | 2491 (560) | 2491 (560) | 2491 (560) | 2491 (560) | 1690 (380) | 1268 (285) | 1023 (230) | 845 (190) | 734 (165) | 645 (145) | 556 (125) |
| 7/8, 15/16, 1 | 3336 (750) | 3336 (750) | 3336 (750) | 3336 (750) | 2713 (610) | 1802 (405) | 1401 (315) | 1090 (245) | 912 (205) | 778 (175) | 689 (155) | 578 (130) |
| 1-1/8, 1-3/16 | 4671 (1050) | 4671 (1050) | 4671 (1050) | 4039 (908) | 3025 (680) | 2002 (450) | 1512 (340) | 1201 (270) | 1001 (225) | 845 (190) | 756 (170) | 667 (150) |
| 1-1/4, 1-3/8, 1-7/16, 1-1/2 | 7162 (1610) | 7162 (1610) | 7162 (1610) | 5071 (1140) | 3803 (855) | 2535 (570) | 1913 (430) | 1512 (340) | 1246 (280) | 1090 (245) | 956 (215) | 845 (190) |
| 1-11/16, 1-3/4 | 8807 (1980) | 8807 (1980) | 7962 (1790) | 5293 (1190) | 3981 (895) | 2647 (595) | 1957 (440) | 1735 (390) | 1312 (295) | 1134 (255) | 979 (220) | 890 (200) |
| 1-15/16, 2 | 10498 (2360) | 10498 (2360) | 8274 (1860) | 5516 (1240) | 4137 (930) | 2758 (620) | 2068 (465) | 1646 (370) | 1379 (310) | 1179 (265) | 1045 (235) | 912 (205) |
| 2-3/16 | 12766 (2870) | 12766 (2870) | 8941 (2010) | 5961 (1340) | 4448 (1000) | 2980 (670) | 2224 (500) | 1779 (400) | 1490 (335) | 1268 (285) | 1112 (250) | 1001 (225) |
| 2-7/16, 2-1/2 | 16725 (3760) | 16725 (3760) | 10498 (2360) | 7028 (1580) | 5249 (1180) | 3536 (795) | 2624 (590) | 2113 (475) | 1735 (390) | 1512 (340) | 1312 (295) | 1179 (265) |
| 2-15/16, 3 | 26556 (5970) | 26556 (5970) | 13878 (3120) | 9208 (2070) | 6939 (1560) | 4626 (1040) | 3470 (780) | 2780 (625) | 2291 (515) | 1979 (445) | 1735 (390) | 1535 (345) |
| 3-7/16, 3-1/2 | 40479 (9100) | 35630 (8010) | 17793 (4000) | 11877 (2670) | 8896 (2000) | 5961 (1340) | 4448 (1000) | 3559 (800) | 2980 (670) | 2535 (570) | 2224 (500) | 1979 (445) |
| 3-15/16, 4 | 52489 (11800) | 40746 (9160) | 20417 (4590) | 13612 (3060) | 10186 (2290) | 6806 (1530) | 5115 (1150) | 4137 (930) | 3403 (765) | 2958 (665) | 2558 (575) | 2269 (510) |
| 4-7/16, 4-1/2 | 67613 (15200) | 45817 (10300) | 22908 (5150) | 15302 (3440) | 11476 (2580) | 7651 (1720) | 5738 (1290) | 4582 (1030) | 3825 (860) | 3292 (740) | 2869 (645) | |
| 4-15/16, 5 | 81847 (18400) | 50710 (11400) | 25399 (5710) | 16948 (3810) | 12722 (2860) | 8496 (1910) | 6361 (1430) | 5071 (1140) | 4248 (955) | 3625 (815) | | |

| Shaft size | 500 | 550 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1300 | 1600 | 1900 | 2200 | 2500 |
|--------------------------------|------------|------------|------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|---------|
| 3/4 | 489 (110) | 467 (105) | 427 (96) | 365 (82) | 320 (72) | 285 (64) | 254 (57) | 231 (52) | 196 (44) | 156 (35) | 133 (30) | 116 (26) | 98 (22) |
| 7/8, 15/16, 1 | 534 (120) | 489 (110) | 467 (105) | 400 (90) | 356 (80) | 311 (70) | 267 (60) | 240 (54) | 209 (47) | 169 (38) | 142 (32) | | |
| 1-1/8, 1-3/16 | 601 (135) | 556 (125) | 512 (115) | 431 (97) | 378 (85) | 334 (75) | 302 (68) | 276 (62) | 187 (42) | 187 (42) | | | |
| 1-1/4, 1-3/8, 1-7/16, 1-1/2 | 756 (170) | 689 (155) | 645 (145) | 534 (120) | 467 (105) | 423 (95) | 383 (86) | 347 (78) | 294 (66) | | | | |
| 1-11/16, 1-3/4 | 801 (180) | 734 (165) | 667 (150) | 578 (130) | 489 (110) | 440 (99) | 396 (89) | 360 (81) | | | | | |
| 1-15/16, 2 | 823 (185) | 756 (170) | 689 (155) | 601 (135) | 512 (115) | 467 (105) | | | | | | | |
| 2-3/16 | 890 (200) | 801 (180) | 734 (165) | 645 (145) | 556 (125) | | | | | | | | |
| 2-7/16, 2-1/2 | 1045 (235) | 956 (215) | 867 (195) | 756 (170) | | | | | | | | | |
| 2-15/16, 3 | 1535 (345) | 1401 (315) | 1290 (290) | | | | | | | | | | |
| 3-7/16, 3-1/2 | 1779 (400) | 1624 (365) | | | | | | | | | | | |

Note: The above ratings apply to all base loaded pillow blocks, all cylindrical units and flange type bearings (up to 371°C). For flange bearings operating at temperatures above 372°C, cap and side loading of pillow blocks please consult your local ABB office for assistance. For operations speeds below heavy line, use LT1000 and/or hardened shaft.

Solidlube bearing corrosion (chemical) resistance

| Type of chemical | Chemical | Bearing series | |
|--------------------------------------|-----------------------------------|----------------|------|
| | | LM800 700 | 1000 |
| Acids and acidic solutions | Mineral (Non-oxidizing) | ★ | ★ |
| | Mineral (Oxidizing) | ■ | ★ |
| | Inorganic Salts (Acid forming) | ★ | ★ |
| | Organic (Strong) | ★ | ★ |
| | Organic (Weak) pH 3-7 | ★ | ★ |
| | Organic salts (Acid forming) | ★ | ★ |
| Alkalis (Bases & alkaline solutions) | Mineral (Non-oxidizing) | ★ | ★ |
| | Mineral (Oxidizing) | ▲ | ★ |
| | Inorganic salts (Base forming) | ★ | ★ |
| | Organic (Strong) | ★ | ★ |
| | Weak organic bases pH 7-11 | ★ | ★ |
| Gases | Acid | ★ | ★ |
| | Alkaline (base) | ★ | ★ |
| | Anhydrous (dew point below -30°F) | ▲ | ▲ |
| | Cyrogenic (Liquefied) | ■ | ▲ |
| | Inert | ★ | ★ |
| | Oxidizing | ■ | ▲ |
| Salts | Reducing | ★ | ★ |
| | Acid salts | ▲ | ▲ |
| | Alkaline sales | ▲ | ▲ |
| | Metals | ★ | ★ |
| | Neutral salts | ■ | ▲ |
| Solvents | Neutral salt solutions | ★ | ★ |
| | Aliphatic | ★ | ★ |
| | Aromatic | ★ | ★ |
| | Chlorinated, fluorinated | ★ | ★ |
| | Oxygenated, sulfides | ★ | ★ |

★ Good, not known interaction; compatible
▲ Questionable (depends on conditions)
■ Not recommended

Note: For compatibility or specific chemical, contact your local ABB office for assistance

700 and 1000 series Solidlube bearing radial load rating in pounds (Limited shaft movement applications) ▲

| Shaft size | Max. radial load | | Max. thrust, N (lb) |
|--------------------------------|---------------------|-----------------------------|---------------------|
| | Base loaded, N (lb) | Cap or side loading, N (lb) | |
| 3/4 | 1100 (247291) | 775 (174228) | 56 (12589) |
| 7/8, 15/16, 1 | 1500 (337215) | 795 (178724) | 75 (16861) |
| 1-1/8, 1-3/16 | 2100 (472101) | 820 (184344) | 105 (23605) |
| 1-1/4, 1-3/8, 1-7/16, 1-1/2 | 3200 (719392) | 1710 (384425) | 161 (36194) |
| 1-11/16, 1-3/4 | 4000 (899240) | 1905 (428263) | 198 (44512) |
| 1-15/16, 2 | 4700 (1056607) | 1920 (431635) | 236 (53055) |
| 2-3/16 | 5700 (1281417) | 1900 (427139) | 287 (64520) |
| 2-7/16, 2-1/2 | 7500 (1686075) | 2360 (530552) | 376 (84529) |
| 2-15/16, 3 | 12,000 (2697720) | 4151 (933186) | 597 (134212) |

▲ Use only when shaft movement is limited to approx. ±90°. Movement is infrequent as opposed to continuous and maximum bearing temperature is 371°C.

LM800 Radial load ratings

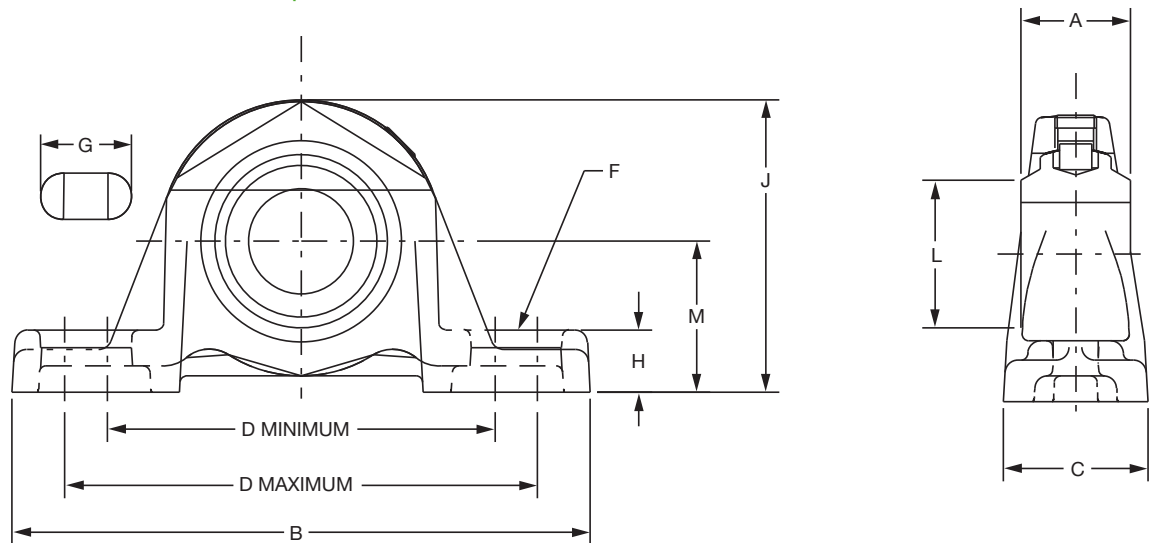
| Bearing size | Max. radial base load, N (lb) | Max. radial cap load, N (lb) |
|--------------|-------------------------------|------------------------------|
| 3/4 | 560 (125894) | 560 (125894) |
| 1 | 750 (168608) | 600 (134886) |
| 1-1/4 | 1610 (361944) | 600 (134886) |
| 1-1/2 | 1610 (361944) | 600 (134886) |

Note: These load ratings are to be used only when shaft rotation is less than 10 RPM and temperature does not exceed 427°C. Maximum allowable thrust load is 50 lb

Sleeve bearings

Selection/Dimensions

Sleeve bearings - Solidlube
3/4. thru 3. Solidlube LT pillow blocks



| Series | Shaft size | 700 series | | | 1000 series | | | Used on frame |
|--------|------------|---------------|-------------|-------|---------------|--------------|-------|---------------|
| | | Part no. | Description | Wt. | Part no. | Description | Wt. | |
| 204 | 20mm | 034225 | P2B-LT7-20M | 0.77 | 034234 | P2B-LT10-20M | 0.77 | LD-10 |
| | 3/4 | 033667 | P2B-LT7-012 | 1.70 | 033977 | P2B-LT10-012 | 1.70 | LD-10 |
| 205 | 25mm | 034226 | P2B-LT7-25M | 0.64 | 034235 | P2B-LT10-25M | 0.64 | LD-10 |
| | 7/8 | 033668 | P2B-LT7-014 | 1.60 | 033978 | P2B-LT10-014 | 1.60 | LD-10 |
| | 15/16 | 033669 | P2B-LT7-015 | 1.50 | 033979 | P2B-LT10-015 | 1.50 | LD-10 |
| | 1 | 033670 | P2B-LT7-100 | 1.40 | 033980 | P2B-LT10-100 | 1.40 | LD-10 |
| 206 | 30mm | 034227 | P2B-LT7-30M | 1.22 | 034236 | P2B-LT10-30M | 1.22 | LD-20 |
| | 1-1/8 | 033672 | P2B-LT7-102 | 2.80 | 033982 | P2B-LT10-102 | 2.80 | LD-20 |
| | 1-3/16 | 033673 | P2B-LT7-103 | 2.70 | 033983 | P2B-LT10-103 | 2.70 | LD-20 |
| 207 | 35mm | 034228 | P2B-LT7-35M | 1.77 | 034237 | P2B-LT10-35M | 1.77 | LD-20 |
| | 1-1/4 | 033674 | P2B-LT7-104 | 4.20 | 033984 | P2B-LT10-104 | 4.20 | LD-20 |
| | 1-3/8 | 033676 | P2B-LT7-106 | 3.90 | 033986 | P2B-LT10-106 | 3.90 | LD-20 |
| | 1-7/16 | 033677 | P2B-LT7-107 | 3.80 | 033987 | P2B-LT10-107 | 3.80 | LD-20 |
| | 1-1/2 | 033678 | P2B-LT7-108 | 3.70 | 033988 | P2B-LT10-108 | 3.70 | LD-20 |
| 209 | 40mm | 034229 | P2B-LT7-40M | 2.72 | 034238 | P2B-LT10-40M | 2.72 | LD-20 |
| | 45mm | 034230 | P2B-LT7-45M | 2.63 | 034239 | P2B-LT10-45M | 2.63 | LD-20 |
| | 1-11/16 | 033680 | P2B-LT7-111 | 6.00 | 033990 | P2B-LT10-111 | 6.00 | LD-20 |
| | 1-3/4 | 033681 | P2B-LT7-112 | 5.80 | 033991 | P2B-LT10-112 | 5.80 | LD-20 |
| 210 | 50mm | 034231 | P2B-LT7-50M | 3.08 | 034240 | P2B-LT10-50M | 3.08 | LD-30 |
| | 1-15/16 | 033682 | P2B-LT7-115 | 6.80 | 033992 | P2B-LT10-115 | 6.80 | LD-30 |
| | 2 | 033683 | P2B-LT7-200 | 6.60 | 033993 | P2B-LT10-200 | 6.60 | LD-30 |
| 211 | 2-3/16 | 033684 | P2B-LT7-203 | 8.00 | 033994 | P2B-LT10-203 | 8.00 | LD-40 |
| 212 | 60mm | 034221 | P2B-LT7-60M | 4.58 | 034241 | P2B-LT10-60M | 4.58 | LD-40 |
| | 2-7/16 | 033686 | P2B-LT7-207 | 10.10 | 033996 | P2B-LT10-207 | 10.10 | LD-40 |
| | 2-1/2 | 033687 | P2B-LT7-208 | 9.80 | 033997 | P2B-LT10-208 | 9.80 | LD-40 |
| 215 | 70mm | 034232 | P2B-LT7-70M | 9.98 | 034242 | P2B-LT10-70M | 9.98 | LD-45 |
| | 75mm | 034233 | P2B-LT7-75M | 9.62 | 034243 | P2B-LT10-75M | 9.62 | LD-45 |
| | 2-15/16 | 033688 | P2B-LT7-215 | 21.20 | 033998 | P2B-LT10-215 | 21.20 | LD-45 |
| | 3 | 033077 | P2B-LT7-300 | 20.90 | 033974 | P2B-LT10-300 | 20.90 | LD-45 |

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)