

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 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 700°F
- 1,000 Series: -200° to -40°F; 250°F to 1,000°F
- 800 Series: -40° to 800°F

Also suitable for submerged and limited movement applications.

BABBITTED

Grease lubricated for moderate speeds and loads, ambient temperature to 130°F, babbitt accurately bored to insure even load distribution for conveyor shafts, heavy gear, and chain drives use.

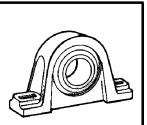
BRONZE-BUSHED

Grease lubricated for moderate speeds, ambient temperature to 300°F and heavy loads or shock loads make the advantage of a precision replaceable bronze bushing desirable. Other liner material is available on a special order basis, such as bronze with graphite plugs, or phenolic resin on nylon.

BRONZOIL

Economical, statically self-aligning, and self-lubricating pillow blocks and four-bolt flange units for fans, light machinery, and other general use.

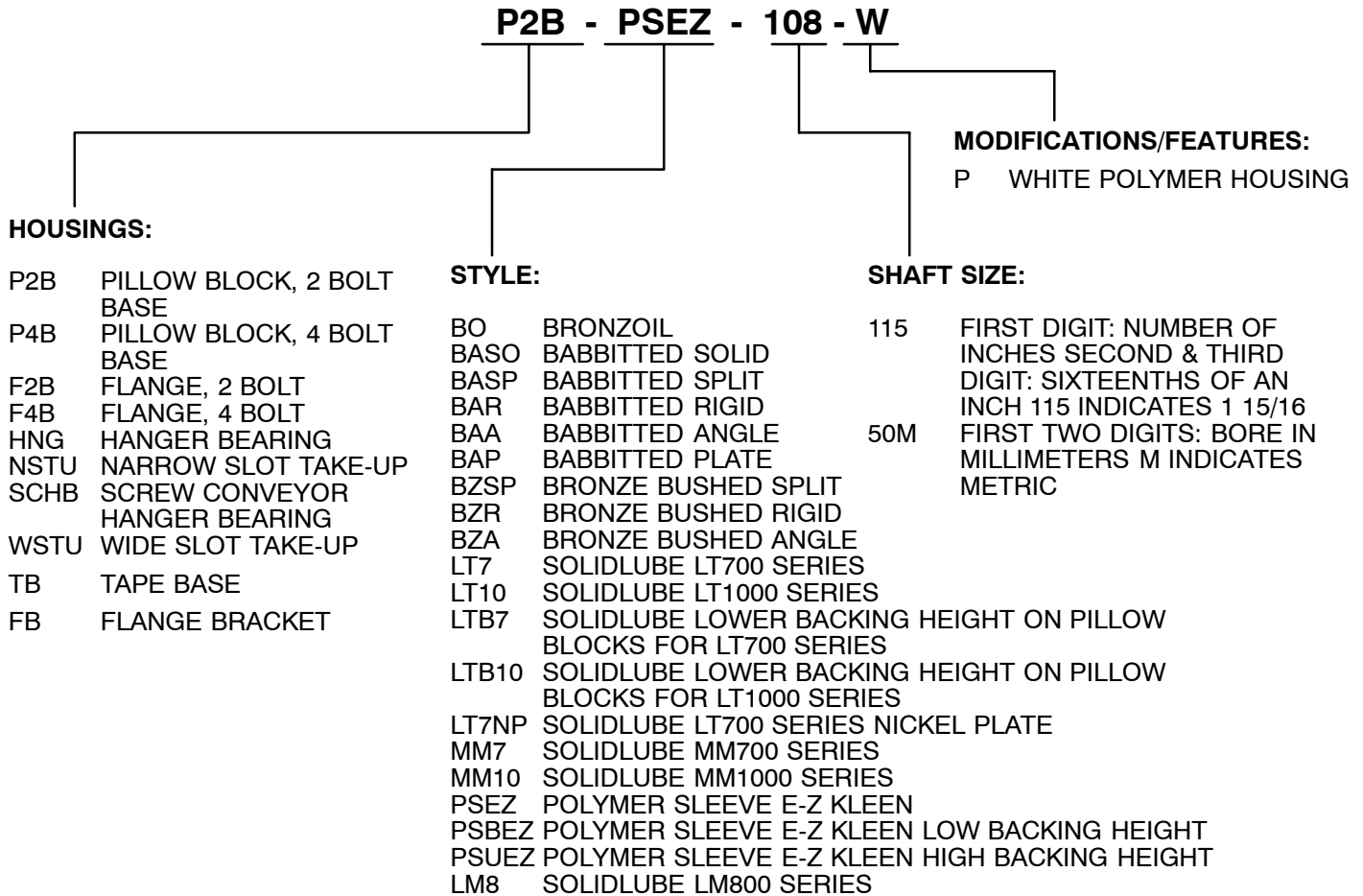
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| SELECTION/DIMENSIONS SOLIDLUBE PAGE B11-14 | SELECTION/DIMENSIONS SOLIDLUBE-METRIC PAGE B11-52 | | |
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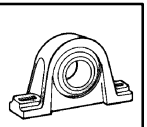
NOMENCLATURE

Sleeve Bearings

SLEEVE BEARING NOMENCLATURE



| | | | |
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| SELECTION/DIMENSIONS BABBITTED PAGE B11-52 | SELECTION/DIMENSIONS BRONZE PAGE B11-36 | SELECTION/DIMENSIONS BRONZOIL PAGE B11-50 | |
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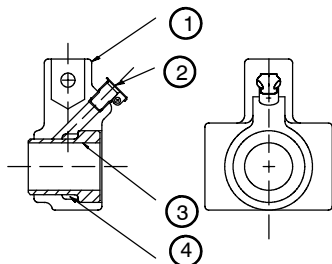
Sleeve Bearings—BRONZOIL

RADIAL LOAD RATINGS FOR BRONZOIL SLEEVE BEARINGS

| Shaft Sizes | Radial Load Rating in Lbs. at Various Revolutions Per Minute | | | | | |
|-------------|--|-----|-----|-----|------|------|
| | 50 | 100 | 200 | 500 | 1000 | 1500 |
| 1/2 | 230 | 225 | 220 | 175 | 120 | 110 |
| 5/8 | 250 | 240 | 230 | 180 | 125 | 105 |
| 3/4 | 260 | 250 | 240 | 185 | 130 | 100 |
| 7/8 | 280 | 270 | 260 | 190 | 145 | 95 |
| 15/16 | 380 | 360 | 290 | 200 | 150 | 90 |
| 1 | 420 | 400 | 300 | 210 | 160 | 85 |
| 1-3/16 | 500 | 475 | 395 | 250 | 135 | 115 |
| 1-1/4 | 525 | 500 | 415 | 260 | 140 | 120 |

| Shaft Sizes | Radial Load Rating in Lbs. at Various Revolutions Per Minute | | | | |
|-------------|--|------|------|------|------|
| | 2000 | 2500 | 3000 | 3500 | 4000 |
| 1/2 | 90 | 80 | 60 | 50 | 45 |
| 5/8 | 80 | 65 | 55 | 45 | 35 |
| 3/4 | 70 | 55 | 50 | 35 | ... |
| 7/8 | 60 | 50 | 45 | ... | ... |
| 15/16 | 55 | 45 | 40 | ... | ... |
| 1 | 50 | 40 | ... | ... | ... |
| 1-3/16 | 60 | ... | ... | ... | ... |
| 1-1/4 | 63 | ... | ... | ... | ... |

| BRONZOIL Take-Up Bearing Assembly | | | | | |
|-----------------------------------|------------------|--------|--------|--------|--------|
| Size | (TUBO—) Assy.No. | 1 | 2 | 3 | 4 |
| 1/2 | 034030 | 034001 | 405046 | 034013 | 444010 |
| 5/8 | 034031 | 034001 | 405046 | 034014 | 444010 |
| 3/4 | 034032 | 034001 | 405046 | 034015 | 444010 |
| 7/8 | 034033 | 034002 | 405046 | 034016 | 444010 |
| 15/16 | 034034 | 034002 | 405046 | 034017 | 444010 |
| 1 | 034035 | 034002 | 405046 | 034018 | 444010 |



1. BRONZOIL Housing
2. BRONZOIL Take-Up Oil Cup
3. BRONZOIL Bushing
4. BRONZOIL Permawick

Select a bearing from the rating tables having a radial load equal to or greater than the actual load providing normal operating conditions are met. If these conditions cannot be met, select a bearing for an equivalent radial load to be obtained by multiplying the actual radial load by a 2.0 to 4.0 service factor—depending on specific application.

Normal Operating Conditions:

1. Adequate oil supply.
2. Proper bearing alignment for uniform distribution of load at all operating conditions.
3. No shock loading.
4. No adversely high operating conditions.
5. No moist, corrosive, or abrasive atmosphere.
6. Shaft surface finish must be equal to that of commercial steel shafting. (About 32 micro inches)
7. Shaft diameter within the tolerance of commercial steel shafting.