



**SPECIFICATION**

**Special Duty**

The standard housing material for Special Duty mounted bearings is ASTM A48 Class 30 Iron having a minimum tensile strength of 30,000 psi. The outer housings for the pillow blocks and flange bearings are of split construction for ease of replacement of the completely assembled, adjusted and lubricated inner units. The housings for the D, S-1 and B-1 units are of solid one piece construction. Pillow blocks and flange bearings are available in both expansion and non expansion types.

Special Duty mounted bearings have duplex tapered roller mounted to the shaft with a tapered adaptor sleeve extending thru the complete length of the pillow block. The tapered roller bearings used in the Special Duty mounted bearings all have case carburized inner races (cone), outer races (cup) and rollers. A single adaptor nut is used on sizes thru 3-1/2" with two adaptor nuts being used on the larger sizes. The nut at the large end of the taper can be used to remove the bearing from the shaft.

Special Duty mounted bearings have two piston ring seals running in grooves in the seal ring carriers at each end of the units to seal the bearings both on and off the shaft. Sizes thru 3-1/2" use a grooved seal ring carrier at one end and grooved adaptor at the opposite end for carrying the piston ring seals. Larger sizes have grooved adaptor nuts to carry the piston ring seals.

**SPECIAL DUTY (Hinged Cap Type)**

The standard housing material for Special Duty hinged cap bearings is ASTM A48 Class 30 Iron having a minimum tensile strength of 30,000 psi. The housing is equipped with a brass hand wheel for ease of removal of the S-1 unit from the pillow block housing. Hinged cap pillow blocks are available in both expansion and non-expansion types.

Hinged cap pillow blocks and units are mounted to the shaft with a tapered adapter sleeve extending completely thru the unit. The tapered adapter sleeve is equipped with micro mount removal screws for ease of demounting the bearing from the shaft.

The hinged cap pillow blocks are arranged for relubrication from the end of the pillow block rather than from the top of the pillow block. Besides the features specified above the hinged cap pillow blocks have many other features in common with the special duty mounted bearings.

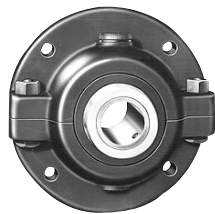
**TRACTION WHEEL**

The traction wheel is to be equipped with a ductile iron (ASTM 536 grade 65-45-10) hub, having indirect mounted tapered roller bearings mounted to ASTI 1018 shafting secured in a support and having drops of 7-3/16", 8" and 10". Combination labyrinth and dynaface seals shall be used.

**SPECIAL DUTY AVAILABLE IN**



Pillow Blocks,  
2-Bolt Base  
1-3/8" To 3-1/2"  
  
Pillow Blocks,  
4-Bolt Base  
2-1/4" To 12"



Flange  
Bearings  
4-Bolt  
1-3/16" To 6"



All In Either Expansion Or Non-Expansion D, S1 & B1 Units 1-3/8" To 12"



Hinged Cap Pillow Blocks Available In Pillow Blocks,  
2-Bolt Base  
1-3/8" To 2-15/16"  
All In Either Expansion Or Non-Expansion

Hinged Cap S-1 Units  
1-3/8" To 2-15/16"



Traction Wheel

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# HOW TO ORDER

## Special Duty

There are two ways to specify DODGE 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 and add any special instructions to the end of the description for options not covered by the nomenclature.

### SPECIAL BEARING REQUIREMENTS AND LUBRICANTS

DODGE Bearings are factory adjusted and pre-lubricated with lithium based NLGI Grade 2 grease. For applications where extreme ambient temperatures, high speeds or high loads are

expected, a variety of specialty lubricants and adjustments are available. Special lubricant options usually involve set-up charges and premiums. To order, specify type of lubricant required at the end of the product name or after the standard part number.

Example:

066231 except with Mobilith SHC 460 grease and .012-.015 Lateral End Play

or

P4B-SD-215 except with Mobilith SHC 460 grease and .012-.015 Lateral End Play

### OTHER SPECIAL REQUIREMENTS NOT LISTED

For applications requiring modifications not listed, we encourage you to contact our Customer Order Engineering Department for Bearings at 864-284-5700.

Bearing Reference Guide

E-Family Roller Bearings

Specialty Tapered Products

S-2000

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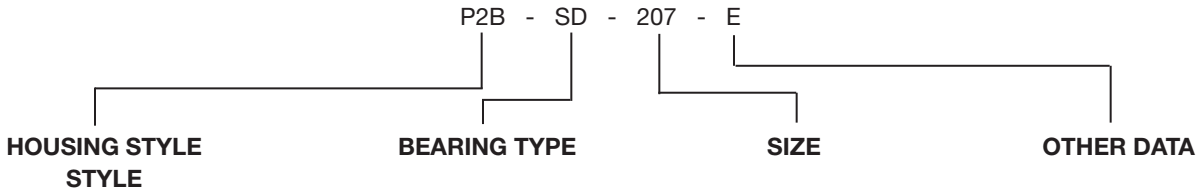
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# NOMENCLATURE

## Specialty Tapered Products



P2B = PILLOW BLOCK  
2 BOLT, CAST IRON

P4B = PILLOW BLOCK  
4 BOLT, CAST IRON

SP4B = PILLOW BLOCK  
4 BOLT, CAST STEEL

F4B = FLANGE BEARING  
4 BOLT, CAST IRON

B1U = B-1 UNIT, CAST IRON

DU = D UNIT, CAST IRON

S1U = S-1 UNIT, CAST IRON

CRT = CARTRIDGE UNIT  
DUCTILE IRON END PLATES

NSTU = NARROW SLOT TAKE UP  
BEARING, CAST IRON

HNG = HANGER BEARING CAST IRON

C = TYPE C

SD = SPECIAL DUTY

HC = HINGED CAP

TRW - TRACTION WHEEL

AS = ALL STEEL

INCHES & 16TH

2 = 2 INCHES

07 = 7/16 INCHES

OR

207 = 2-7/16"

E = EXPANSION  
TYPE BEARING

IF E DOES NOT APPEAR  
AFTER SEAL TYPE, THEN  
BEARING IS NON-EXPANSION  
TYPE