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Specialty Tapered Products TYPE C

- Positive Concentric Clamp Sleeve Mounting
- Steel Multiple Labyrinth Seals
- Quality Single Row Tapered Roller Assemblies
- Rugged Two-Piece Housing
- Elongated Bolt Holes



2¹/₂" to 5" NE Construction Shown, Expansion also Available







CLAMP SLEEVE MOUNTING--

- Two quality single row tapered bearings press fitted on sleeve.
- Outer races shouldered against rib in housing.
- Offers improved concentricity over other collar mounted types of bearings
- Best bearing unit for wheel or sprocket applications
- Two piece split collars used on 2-1/2" and larger sizes
- Single piece split collars, used on smaller sizes (see take up bearing on page B13-45).
- Performs flinger like function keeping many materials away from seal.

STEEL MULTIPLE LABYRINTH SEALS

- Combine with collars offering excellent resistance to keep contaminants out of the bearing.
- Seal bearing both on and off the shaft before, during and after installation.
- Especially well suited on applications where dirt and dust are severe.

RUGGED TWO PIECE OUTER HOUSING

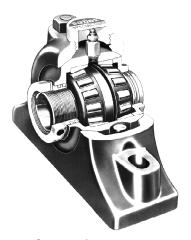
- Split housing of heavy duty gray iron construction houses completely assembled inner unit.
- Elongated bolt holes provide lateral adjustment for ease of installing pillow blocks.





Specialty Tapered Products SPECIAL DUTY

- **Quality Duplex Tapered Roller** Bearing
- Tapered Adapter Sleeve Mounting
- Effective Piston Ring Seals
- Rugged Two-Piece Housing
- **Elongated Bolt Holes**



 $1^{3}/8^{"}$ to $3^{1}/2^{"}$ NE Type Construction Shown

SPECIAL DUTY PILLOW BLOCKS **DUAL PISTON RING SEALS**

- Contained within self aligning inner unit, to be unaffected by misalignment.
- Seal bearing both on and off the shaft before, during and after installation.
- Extremely close clearances to exclude most materials from entering bearing.

TAPERED ADAPTER SLEEVE MOUNTING

- A split tapered adapter sleeve extending thru the entire length of the pillow block is used to securely fasten the bearing to the shaft tighter than shorter adapter sleeves.
- two adapter nuts being used on the larger sizes. The adapter nut at the large end of the taper can be used to remove the bearing from the shaft.

A single adapter nut is used on sizes 3-1/2" and smaller with

DUPLEX TAPERED ROLLER BEARING

- Uses case hardened inner race, outer races and rollers with adapter sleeve mounting resulting in unsurpassed load handling capability and longer useful bearing life.
- Handles any combination of radial and thrust load from 100% radial load to 100% thrust load.

RUGGED TWO PIECE OUTER HOUSING

- Split housing of heavy duty gray iron construction houses completely assembled inner unit.
- Elongated bolt holes provide lateral adjustment for ease of installing pillow blocks.









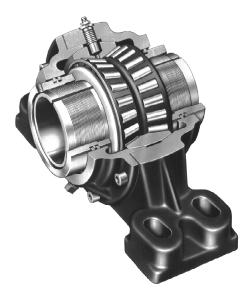




Specialty Tapered Products

ALL STEEL

- Quality Duplex Tapered Roller Bearing
- Tapered Adapter Sleeve Mounting
- Dual Piston Ring Seals
- Solid One-Piece Cast Steel Housing





DUPLEX TAPERED ROLLER BEARING

- Uses case hardened inner race, outer races and rollers with adapter sleeve mounting resulting in unsurpassed load handling capability and longer useful bearing life.
- Handles any combination of radial and thrust load from 100% radial load to 100% thrust load.



TAPERED ADAPTER SLEEVE MOUNTING

- A split tapered adapter sleeve extending thru the entire length of the pillow block is used to securely fasten the bearing to the shaft tighter than shorter adapter sleeves.
- Two ductile iron adapter nuts are used with the All Steel pillow blocks. The adapter nut at the small end of the taper is used to tighten the bearing to the shaft with the adapter nut at the large end of the taper is used to remove the bearing from the shaft.



DUAL PISTON RING SEALS

- Dual piston ring seals are housed in accurately machined grooves in the adapter nuts resulting efficient labyrinth sealing action throughout the full range of misalignment.
- Seal bearing both on and off the shaft before, during and after installation.



RUGGED TWO PIECE OUTER HOUSING

- Vertically split housing of heavy duty cast steel ribbed construction houses duplex tapered roller bearing.
- Elongated bolt holes provide lateral adjustment for ease of installing pillow blocks.

SPECIFICATION





Type C

The standard housing material for Type C 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 take-ups, hanger bearings, 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 styles. Take up and hanger bearings are available as non expansion only.

The Type C mounted bearing has indirect mounted tapered roller bearings press fitted on a common sleeve with the outer race shouldered against a rib in the housing. The tapered roller bearings used in the Type C mounted bearings all have case carburized inner races (cones), outer races (cups) and rollers.

The Type C bearing is mounted to the shaft by clamping the sleeve to the shaft at the slotted threaded end of the sleeve with flinger collars. These collars are one piece construction for sizes thru $2^{-1}/2$ ", with larger sizes using collars of two piece construction. The bearing rating for the type C is determined by the sleeve resulting in a L10 life at maximum speed of at least 100,000 hours.

Steel multiple labyrinth seals are used to offer extra resistance to keep contaminants out of the bearing before, during, and after installation.



TYPE C AVAILABLE IN PILLOW BLOCKS, 2 BOLT BASE $1^{-3}/_{16}$ " TO $3^{-7}/_{16}$ " PILLOW BLOCKS, 4 BOLT BASE $2^{-3}/_{8}$ " TO 5" FLANGE BEARINGS 4 BOLT $1^{-3}/_{16}$ " TO 5" ALL IN EITHER EXPANSION OR NON-EXPANSION





HANGER BEARINGS. $1 - ^{15}/_{16}{}''$ TO $3 - ^{7}/_{16}{}''$ TO $2 - ^{15}/_{16}{}''$ TO $2 - ^{15}/_{16}{}''$









D, S-1, OR B-1 UNITS 1-3/16" TO 5"

HOW TO ORDER





Type C

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 B6–7 and add any special instructions to the end of the description for options not covered by the nomenclature.

SPECIAL BEARING REQUIREMENTS AND SPECIAL LUBRICANTS

DODGE Type C Bearings are factory adjusted and pre-lubricated. For applications where extreme ambient temperatures, high speeds or high loads are expected, a variety of specialty lubricants and adjustments are available. Standard grease provided is Shell Alvania #2. Other general purpose

greases available include Chevron SRI, Exxon Unirex and Shell Alvania #2EP. Special service greases available include Mobiltemp 1, Aeroshell 7 and 17 and Shell Darina #2. High temperature greases available include Dow Corning Molykote 33, 44 and FS-1292, Moluballoy 896 HT and Mobilith SHC460. Special lubricant options usually involve setup charges and premiums. To order, specify type of lubricant required at the end of the product name or after the standard part number.

Example:

065294 except with Mobilith SHC 460 grease or

P2B-C-207 except with Mobilith SHC 460 grease

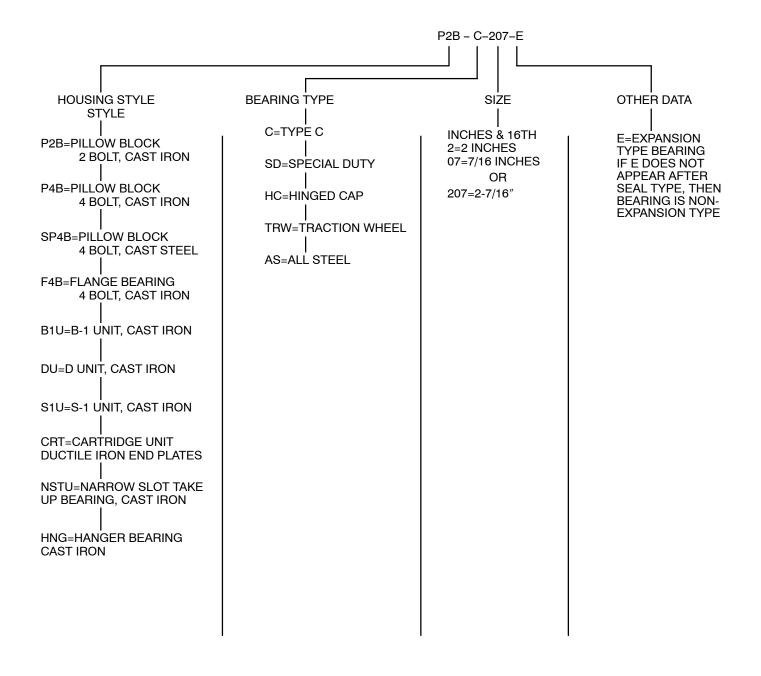
OTHER SPECIAL REQUIREMENTS NOT LISTED

For applications requiring modifications not listed, we encourage you to contact our Customer Order Engineering Department for Bearings at 864-297-4800.





Specialty Tapered Products Type C, Special Duty And All Steel



ſ	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
١	SPECIAL DUTY	TYPE C	TRACTION WHEEL	ALL STEEL
١	PAGE B6-25/B6-32	PAGE B6-8 / B6-10	PAGE B6-47	PAGE B6-51/B6-56





Type C

TYPE C BEARING

The capacity of the Type C bearing is designed to handle loads normally imposed on the shaft. However, due to the assembly method and method of fastening the bearing to the shaft, there are necessary clearances between the sleeve and the shaft except at the two ends. Consequently, under heavy loads a flexing and stressing of the sleeve will take place as the shaft rotates. For this reason, the Radial Load Ratings shown in Table 1 are based on the sleeve capacity under maximum clearance conditions rather than on the capacity of the roller bearings themselves.

Sleeve capacity being independent of speed, the table gives maximum recommended bearing loads at all allowable speeds and is based on the use of standard cold finished shafting with commercial undersize tolerances.

Type C bearings are primarily utilized on radial load applications. They have ample thrust capacity for use as the locating bearing normally encountered with this type service. If heavy thrust loads are involved, Application Engineering should be contacted for a review of the application. The maximum thrust load should not exceed Type C pillow block limits shown on page B6–9.

Since these ratings are considerably less than the base bearing ratings, the resulting life expectancy is, for all practical purposes, contingent only on proper lubrication.

TABLE 1 - TYPE C RADIAL LOAD RATINGS

Shaft Size Inches	Radial Load Rating (Lbs.) *	Max. RPM	Shaft Size Inches	Radial Load Rating (Lbs.)	Max. RPM
1-3/16 – 1-7/16	725	3000	2-1/2 – 2-15/16	3000	1750
1-1/2 – 1-3/4	1000	3000	3 – 3-7/16	4000	1500
1-15/16	1350	2500	3-1/2 – 4	5500	1250
2 - 2-1/4	1700	2500	4-7/16 - 4-1/2	6500	1000
2-3/8 – 2-7/16	2100	2000	4-15/16 – 5	7500	750

^{*} More than 100,000 L_{10} hours life at Max. RPM listed.





Type C

TABLE 2 - TYPE C EXPANSION CAPABILITY, INCHES

	Type C						
Shaft Size, Inches	2-Bolt Pillow Block	4-Bolt Pillow Block	Flange				
1-3/16 – 1-7/16	3/16		3/16				
1-1/2 - 1-3/4	5/8		1/4				
1-15/16	5/8		1/4				
2 - 2-1/4	5/8		1/4				
2-3/8 - 2-7/16	5/8	5/8	1/4				
2-1/2 – 2-15/16	3/4	5/8	5/8				
3 – 3-7/16	3/4	3/4	1/4				
3-1/2 – 4		3/4	1/4				
4-7/16 - 4-1/2		3/4	5/8				
4-15/16 – 5		3/4	5/8				

TABLE 3 - TYPE C PILLOW BLOCK PERMISSIBLE THRUST LOAD *

Shaft	Thrust lo	ads, Ibs Shaft Thrust loa			oads, Ibs		
Size, Inches	2-Bolt	4-Bolt	Si	Size, Inches		lt	4-Bolt
1-3/16 – 1-7/16	3000		2-1,	/2 – 2-15/16	6900		9300
1-1/2 - 1-3/4	3150		3	3 – 3-7/16	5700		12000
1-15/16	5000		;	3-1/2 – 4			12000
2 – 2-3/16	5000		4-7	7/16 – 4-1/2			12000
2-3/8 - 2-7/16	7300	10000	4-	-15/16 – 5			16500

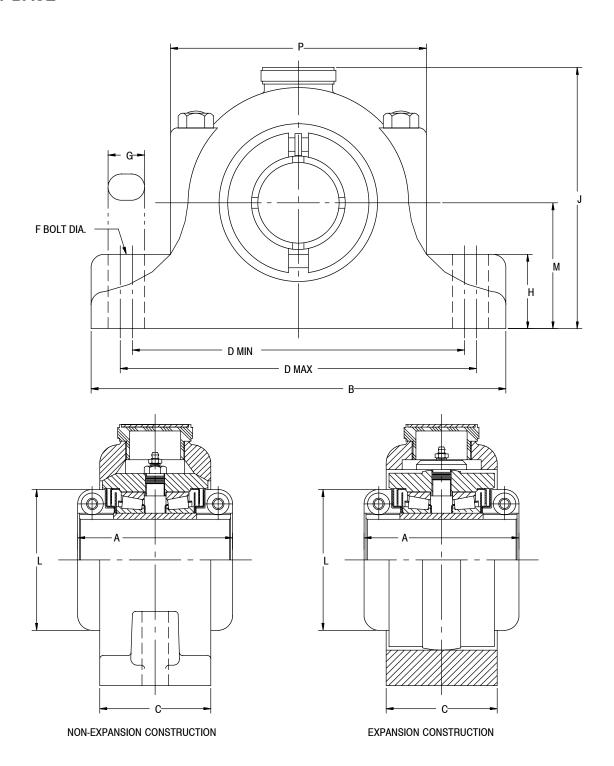
^{* .} The limits in above apply to pillow blocks. For thrust loads larger than listed or heavy thrust loading on other style housings, contact DODGE Engineering for recommendation.

SELECTION/DIMENSIONS SPECIAL DUTY	SELECTION/DIMENSIONS ALL STEEL	
PAGE B6-25/B6-32	PAGE B6-51/B6-56	





Type C Pillow Block - Inch



FEATURE/BENEFIT-Type C	SPECIFICATION-Type C	HOW TO ORDER-Type (
PAGE B6-2	PAGE B6-5	PAGE B6–6





Type C Pillow Block - Inch

2-BOLT BASE

	GRAY IRON NON-EXPANSION*					
SHAFT SIZE Inches#	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)			
1-3/16	065289	P2B-C-103	21			
1-1/4	065311	P2B-C-104	20			
1-7/16	065290	P2B-C-107	20			
1-1/2	065312	P2B-C-108	28			
1-11/16	065291	P2B-C-111	28			
1-3/4	065238	P2B-C-112	26			
1-15/16	065292	P2B-C-115	29			
2	065313	P2B-C-200	47			
2-3/16	065293	P2B-C-203	47			
2-1/4	065314+	P2B-C-204	47			
2-7/16	065294	P2B-C-207	57			
2-1/2	065315	P2B-C-208	83			
2-11/16	065295	P2B-C-211	83			
2-7/8	065244	P2B-C-214	83			
2-15/16	065296	P2B-C-215	83			
3	065316	P2B-C-300	132			
3-3/16	065317	P2B-C-303	132			
3-7/16	065297	P2B-C-307	128			

- * FURNISHED UNLESS OTHERWISE SPECIFIED
- # CONSULT DODGE FOR SIZES NOT LISTED.
- + NON-STOCK CONSULT DODGE FOR DELIVERY

	GRAY IRON EXPANSION					
SHAFT SIZE Inches#	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)			
1-3/16	087262	P2B-C-103E	22			
1-1/4	087263+	P2B-C-104E	22			
1-7/16	087180	P2B-C-107E	20			
1-1/2	087264	P2B-C-108E	28			
1-11/16	087181	P2B-C-111E	28			
1-3/4	087172+	P2B-C-112E	28			
1-15/16	087182	P2B-C-115E	29			
2	087265	P2B-C-200E	49			
2-3/16	087183	P2B-C-203E	49			
2-1/4	087266	P2B-C-204E	49			
2-7/16	087184	P2B-C-207E	57			
2-1/2	087267	P2B-C-208E	90			
2-11/16	087185	P2B-C-211E	90			
2-7/8	087178	P2B-C-214E	90			
2-15/16	087186	P2B-C-215E	90			
3	087268	P2B-C-300E	135			
3-3/16	087269	P2B-C-303E	135			
3-7/16	087187	P2B-C-307E	131			

- # CONSULT DODGE FOR SIZES NOT LISTED.
- + NON-STOCK CONSULT DODGE FOR DELIVERY

SHAFT				[)	F				LΔ	М		EXP**
SIZE INCHES	Α	B*	C*	MIN.	MAX.	BOLT DIA.	G*	H*	J			P*	
1-3/16													
1-1/4	4-1/2	9	3	6-7/8	7-5/8	1/2	1	2-1/8	6-1/4	3-3/32	2-7/8	5-7/8	3/16
1-7/16													
1-1/2													
1-1/16	4-7/8	9-1/2	3-3/8	7-9/16	7-15/16	1/2	13/16	2-3/8	6-13/16	3-1/2	3-1/8	6-1/2	5/8
1-3/4													
1-15/16	5-1/4	11	3-1/2	8-1/4	9-1/4	5/8	1-1/4	2-1/2	7-1/8	3-7/8	3-1/4	7-3/8	5/8
2													
2-3/16	5-3/4	12	4	9-5/16	10-3/16	5/8	1-3/16	2-7/8	8	4-3/8	3-3/4	8	5/8
2-1/4													
2-7/16	6	13-1/4	4-1/4	10-1/8	11-3/8	3/4	1-1/2	3	8-9/16	4-21/32	4	8-7/8	5/8
2-1/2													
2-11/16	0.4/0	444/4	4.0/4	44.4/0	10.0/0	0/4	4 4 /0	0.04	0.7/0	F 7/40	4.0/4	0.7/0	0/4
2-7/8	6-1/2	14-1/4	4-3/4	11-1/8	12-3/8	3/4	1-1/2	3-3/4	9-7/8	5-7/16	4-3/4	9-7/8	3/4
2-15/16													
3													
3-3/16	7	16-3/4	5-1/2	13-1/4	14-1/4	7/8	1-1/2	4	11-3/8	5-15/16	5-1/2	11-5/8	3/4
3-7/16													

Δ A ONE-PIECE COLLAR FURNISHED UP THRU 2-7/16 SIZES. LARGER SIZES USE A TWO-PIECE COLLAR.

* EXP- TOTAL EXPANSION DIVIDED EQUALLY ON BOTH SIDES OF BEARING (EXPANSION BEARING ONLY)

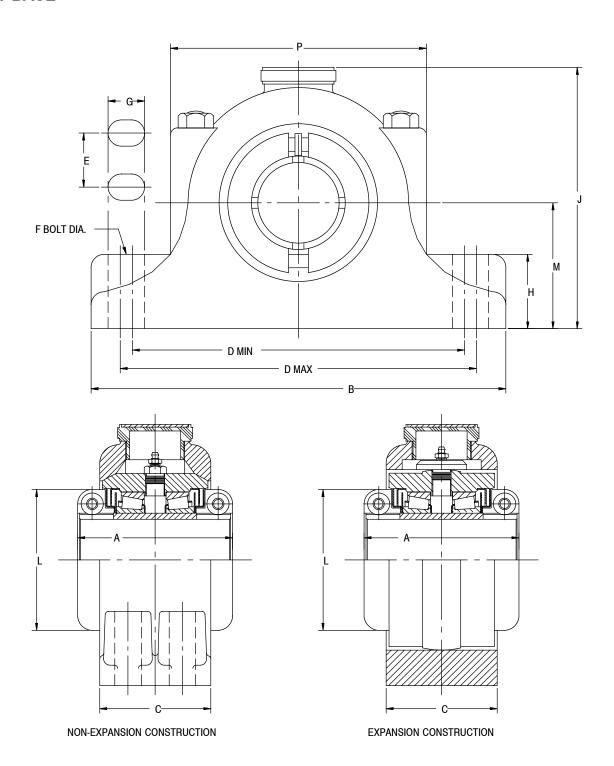
SELECTION/DIMENSIONS SPECIAL DUTY	SELECTION/DIMENSIONS ALL STEEL	
PAGE B6-25/B6-32	PAGE B6-51/B6-56	

^{*} THESE ARE AS CAST SURFACES. DIMENSIONS MAY FLUCTUATE DUE TO DRAFT ANGLES AND PATTERN SHIFTS.





Type C Pillow Block - Inch



FEATURE/BENEFIT-Type C
PAGE B6-2





Type C Pillow Block - Inch

4-BOLT BASE

	GRAY IRON NO	ON-EXPANSION*	
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
2-7/16	065310	P4B-C-207	59
2-15/16	065302	P4B-C-215	85
3-7/16	065303	P4B-C-307	130
3-15/16	065298	P4B-C-315	230
4-7/16	065299	P4B-C-407	280
4-15/16	065300	P4B-C-415	370

- FURNISHED UNLESS OTHERWISE SPECIFIED
- # CONSULT DODGE FOR SIZES NOT LISTED.
- + NON-STOCK CONSULT DODGE FOR DELIVERY

	GRAY IRON	EXPANSION	
SHAFT SIZE INCHES#	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
2-7/16	087191	P4B-C-207E	59
2-15/16	087192	P4B-C-215E	85
3-7/16	087193	P4B-C-307E	135
3-15/16	087188	P4B-C-315E	230
4-7/16	087189	P4B-C-407E	290
4-15/16	087190	P4B-C-415E	380

- # CONSULT DODGE FOR SIZES NOT LISTED.
- + NON-STOCK CONSULT DODGE FOR DELIVERY

SHAFT	_)	_	F							
SIZE INCHES	А	B*	C*	MIN.	MAX.	E	BOLT DIA.	G*	H*	J	LΔ	М	P*	EXP**
2-7/16	6	13-1/4	4-1/4	10	11-1/2	2-1/2	5/8	1-1/2	3	8-9/16	4-21/32	4	8-7/8	5/8
2-15/16	6-1/2	14-1/4	4-3/4	11	12-1/2	2-3/4	5/8	1-1/3	3-3/4	9-7/8	5-7/16	4-3/4	9-7/8	5/8
3-7/16	7	16-3/4	5-1/2	12-7/8	14-5/8	3-1/4	3/4	1-1/2	4	11-3/8	5-15/16	5-1/2	11-5/8	3/4
3-15/16	9-1/2	19	7	15	16	3-1/4	7/8	1-1/2	4	13-3/8	7-3/8	6-3/8	13-7/8	3/4
4-7/16	10	20	7-1/2	15-5/8	17-3/8	3-1/2	7/8	1-7/8	4	14-1/2	8-3/8	7-1/4	15-1/4	3/4
4-15/16	11-1/4	23	8-1/4	17-3/4	19-3/4	3-3/4	1	2-1/8	4-1/4	15-5/8	9-3/8	7-1/2	16-3/4	3/4

 $[\]Delta$ $\,$ A ONE-PIECE COLLAR FURNISHED UP THRU 2-7/16 SIZES. LARGER SIZES USE A TWO-PIECE COLLAR.

- * THESE ARE AS CAST SURFACES. DIMENSIONS MAY FLUCTUATE DUE TO DRAFT ANGLES AND PATTERN SHIFTS.
- ** EXP- TOTAL EXPANSION DIVIDED EQUALLY ON BOTH SIDES OF BEARING (EXPANSION BEARING ONLY)

SELECTION/DIMENSIONS SPECIAL DUTY PAGE B6-32

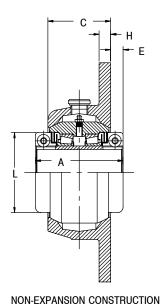
SELECTION/DIMENSIONS ALL STEEL PAGE B6-51/B6-56

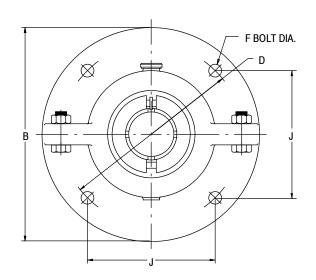


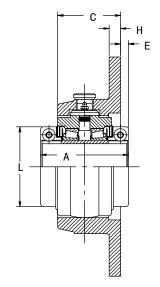




Type C Flange Bearing - Inch







EXPANSION CONSTRUCTION

	GRAY IRON NO	N-EXPANSION*	
SHAFT SIZE # INCHES	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
1-7/16	104040	F4B-C-107	21
1-11/16 1-3/4	104041 104106+	F4B-C-111 F4B-C-112	31 31
1-15/16	104042	F4B-C-115	37
2-3/16	104043	F4B-C-203	49
2-7/16	104044	F4B-C-207	63
2-15/16	104045+	F4B-C-215	98
3 3-7/16	104119+ 104046	F4B-C-300 F4B-C-307	140 140

- * FURNISHED UNLESS OTHERWISE SPECIFIED
- # CONSULT DODGE FOR SIZES NOT LISTED.
- + NON-STOCK CONSULT DODGE FOR DELIVERY

	GRAY IRON I	EXPANSION*	
SHAFT SIZE # INCHES	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
1-7/16	104050	F4B-C-107E	21
1-11/16 1-3/4	104051 104078+	F4B-C-111E F4B-C-112E	31 31
1-15/16	104052	F4B-C-115E	38
2-3/16	104053	F4B-C-203E	49
2-7/16	104054	F4B-C-207E	63
2-15/16	104055	F4B-C-215E	98
3 3-7/16	104090+ 104056	F4B-C-300E F4B-C-307E	140 140

- # CONSULT DODGE FOR SIZES NOT LISTED.
- + NON-STOCK CONSULT DODGE FOR DELIVERY

FEATURE/BENEFIT-Type C	NOMENCLATURE-Type C	HOW TO ORDER-Type C	SELECTION-Type C
PAGE B6-2	PAGE B6-7	PAGE B6-6	PAGE B6-8





Type C Flange Bearing - Inch

SHAFT SIZE INCHES	Α	В	С	D	E	F BOLT DIA.	н	J	LΔ	EXP*
1-7/16	4-1/2	8-1/4	3	7	3/4	1/2	5/8	4.950	3-3/32	3/16
1-11/16 1-3/4	4-7/8	9	3-3/8	7-5/8	3/4	1/2	11/16	5.392	3-1/2	1/4
1-15/16	5-1/4	10	3-1/2	8-3/8	7/8	5/8	3/4	5.922	3-7/8	1/4
2-3/16	5-3/4	10-3/4	4	9-1/8	7/8	5/8	13/16	6.452	4-3/8	1/4
2-7/16	6	12	4-1/4	10-1/4	7/8	3/4	7/8	7.248	4-21/32	1/4
2-15/16	6-1/2	13	4-5/8	11-1/4	15/16	3/4	1	7.955	5-7/16	5/8
3 3-7/16	7	14-1/2	5-3/8	12-1/2	13/16	7/8	1-1/8	8.839	5-15/16	1/4

 $[\]Delta$ $\,$ A ONE-PIECE COLLAR FURNISHED UP THRU 2-7/16 SIZES. LARGER SIZES USE A TWO-PIECE COLLAR.

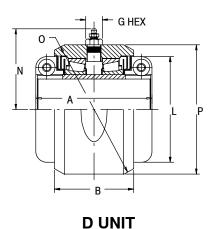
SELECTION/DIMENSIONS SPECIAL DUTY PAGE B6-25/B6-32 SELECTION/DIMENSIONS ALL STEEL PAGE B6-51/B6-56

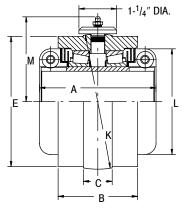
^{*} EXP-TOTAL EXPANSION DIVIDED EQUALLY ON BOTH SIDES OF BEARING (EXPANSION BEARING ONLY).

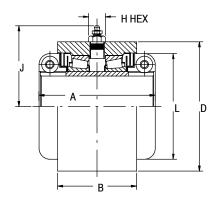




Type C Units - Inch







S-1 UNIT

B-1 UNIT

			Type C UNI	TS - INCHES			
	D UI	NITS	S-1 U	UNITS	B-1 U	JNITS	
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	PART NUMBER	PART NAME	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
1-7/16	065282	DU-C-107	087199	S1U-C-107	069060	B1U-C-107	7
1-1/2 1-11/16 1-3/4	065258+ 065283 065260	DU-C-108 DU-C-111 DU-C-112	087205+ 087200 087207+	S1U-C-108 S1U-C-111 S1U-C-112	069061 	B1U-C-111	11 11 11
1-15/16	065284	DU-C-115	087194	S1U-C-115	069062	B1U-C-115	12
2 2-3/16 2-1/4	065262 065285 065265	DU-C-200 DU-C-203 DU-C-204	087209 087195 087215+	S1U-C-200 S1U-C-203 S1U-C-204	069034+ 069063 	B1U-C-200 B1U-C-203	18 17 17
2-7/16	065286	DU-C-207	087196	S1U-C-207	069064	B1U-C-207	20
2-1/2 2-11/16 2-7/8 2-15/16	 065268 065270+ 065287	DU-C-211 DU-C-214 DU-C-215	 087218 087220+ 087197	S1U-C-211 S1U-C-214 S1U-C-215	069039 069065	B1U-C-208 B1U-C-215	35 34 34 34
3 3-3/16 3-1/4 3-7/16	065271 065288	DU-C-300 DU-C-307	087221 087222+ 087198	\$1U-C-300 \$1U-C-303 \$1U-C-307	 069045+ 069046+ 069066	B1U-C-303 B1U-C-304 B1U-C-307	55 53 53 51
3-1/2 3-11/16 3-15/16 4	065274+ 065304 	DU-C-308 DU-C-315 	087224+ 087225+ 087210 	\$1U-C-308 \$1U-C-311 \$1U-C-315 	 069067 069069+	 B1U-C-315 B1U-C-400	115 115 115 115
4-7/16	065305	DU-C-407	087211	S1U-C-407			138
4-15/16	065306	DU-C-415	087212	S1U-C-415			190

CONSULT DODGE FOR SIZES NOT LISTED.

FEATURE/BENEFIT-Type C	SPECIFICATIONS-Type C	NOMENCLATURE-Type C	SELECTION-Type C
PAGE B6-2	PAGE B6-5	PAGE B6-7	PAGE B6-8
·			

NON-STOCK — CONSULT DODGE FOR DELIVERY





Type C Units, D, S-1, B-1 - Inch

SHAFT SIZE INCHES	Α	В	С	D*	E	G HEX	н	J	К	LΔ	М	N	0	Р
1-7/16	4-1/2	2-11/16	3/4	3-7/8	3-13/16	7/16	5/8	3-1/8	4-1/16*	3-3/32	2-11/16	2-1/2	4-7/16	3-15/16
1-1/2														
1-11/16	4-7/8	3-1/8	3/4	4-1/4	4-1/8	7/16	5/8	3-5/16	4-7/16*	3-1/2	2-7/8	2-3/4	5	4-1/2
1-3/4														
1-15/16	5-1/4	3-1/4	7/8	4-3/4	4-1/2	7/16	5/8	3-9/16	4-13/16*	3-7/8	3-1/16	2-7/8	5-5/16	4-3/4
2														
2-3/16	5-3/4	3-3/4	7/8	5-1/4	5	7/16	5/8	3-13/16	5-3/8*	4-3/8	5-5/16	3-3/16	6	5-3/8
2-1/4														
2-7/16	6	4	1	5-3/4	5-5/16	5/8	5/8	4-1/16	5-11/16*	4-21/32	3-1/2	4-3/32	6-3/8	5-11/16
2-1/2														
2-11/16	6-1/2	4-7/16	1	6-1/2	6-3/16	5/8	3/4	4-5/8	6-9/16*	5-7/16	4-1/2	4-1/2	7-5/16	6-1/2
2-7/8	0-1/2	4-7/10	'	0-1/2	0-3/10	3/6	3/4	4-5/6	0-9/10	3-7/10	4-1/2	4-1/2	7-5/10	0-1/2
2-15/16														
3														
3-3/16	7	5	1-1/4	7-3/4	7-1/2	5/8	3/4	5-1/4	8#	5-15/16	4-7/8	5-9/16	8-5/8	8-1/8
3-1/4	,	5	1-1/4	7-3/4	1-1/2	5/6	3/4	3-1/4	0#	3-13/10	4-7/6	3-9/10	0-5/6	0-1/6
3-7/16														
3-1/2														
3-11/16	9-1/2	6-1/4	1-1/2	9-1/4	8-13/16	5/8	3/4	6	9-1/2#	7-3/8	5-5/8	6-3/8	10-1/4	9-3/4
3-15/16	9-1/2	0-1/4	1-1/2	9-1/4	0-13/10	5/6	3/4		3-1/2#	1-3/6	3-3/6	0-3/6	10-1/4	9-3/4
4														
4-7/16	10	6-5/8	1-3/4	10-1/2	9-15/16	3/4	3/4	6-5/8	10-5/8#	8-3/8	6-3/16	6-11/16	11-1/8	10-3/8
4-15/16	11-1/4	7-3/8	2	11-3/4	10-15/16	3/4	3/4	7-1/4	11-1/2#	9-3/8	6-5/8	7-7/16	12-1/2	11-7/8

A ONE-PIECE COLLAR FURNISHED UP THRU 2-7/16 SIZES. LARGER SIZES USE A TWO-PIECE COLLAR.

SELECTION/DIMENSIONS SPECIAL DUTY PAGE B6-25/B6-32	SELECTION/DIMENSIONS ALL STEEL PAGE B6-51/B6-56	
17(GL B0 L0/B0 GL	17 GE BO 01/BO 00	

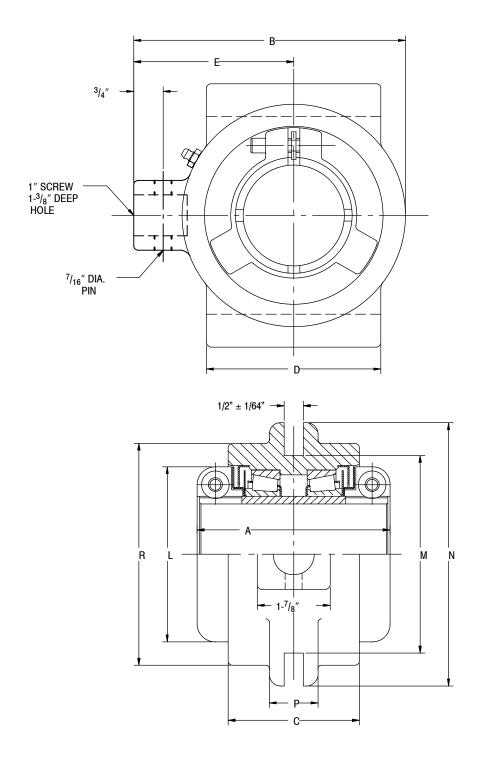
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Type C Take-Up Bearing



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Type C Take-Up Bearing

GRAY IRON										
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)							
1-7/16	036116	NSTU-C-107	12							
1-1/2	036054+	NSTU-C-108	15							
1-15/16	036118	NSTU-C-115	18							
2-3/16	036119	NSTU-C-203	26							
2-7/16	036120	NSTU-C-207	27							
2-15/16	036121	NSTU-C-215	37							

- CONSULT DODGE FOR SIZES NOT LISTED. NON-STOCK CONSULT DODGE FOR DELIVERY

SHAFT SIZE INCHES	A	В	С	D	E	L	М	N	Р	R
1-7/16	4-1/2	5-5/8	2-11/16	2-1/2	3-5/8	3-3/32	5-1/8	6-1/4	1-1/4	4
1-1/2	4-7/8	5-7/8	3-1/8	3	3-5/8	3-1/2	5-1/8	6-1/4	1-1/4	4-1/4
1-15/16	5-1/4	6	3-1/4	3-1/2	3-5/8	3-7/8	5-1/8	6-1/4	1-1/4	4-3/4
2-3/16	5-3/4	7	3-3/4	4-1/2	4-1/8	4-3/8	5-1/8	6-1/4	1-1/4	5-3/4
2-7/16	6	7	4	4-1/2	4-1/8	4-21/32	5-1/8	6-1/4	1-1/4	5-3/4
2-15/16	6-1/2	7-3/4	4-7/16	5	4-1/2	5-7/16	6-1/8	7-1/4	1-1/4	6-1/2

SELECTION/DIMENSIONS SPECIAL DUTY PAGE B6-25/B6-32

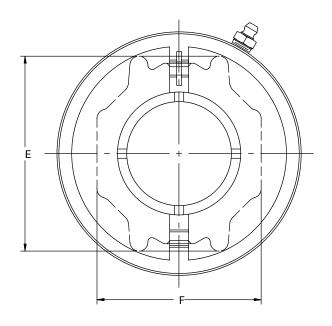
SELECTION/DIMENSIONS ALL STEEL PAGE B6-51/B6-56

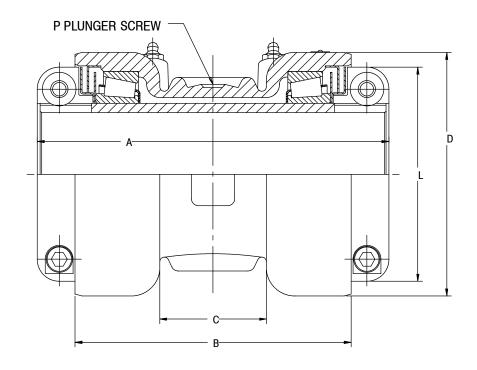






Type C Hanger Bearings





FEATURE/BENEFIT-Type C	
PAGE B6-2	





Type C Hanger Bearings

GRAY IRON										
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)							
1-15/16	061082	HNG-C-115	16							
2-3/16	061083	HNG-C-203	21							
2-7/16	061084	HNG-C-207	30							
2-11/16 2-15/16	061085 061086	HNG-C-211 HNG-C-215	41 40							
3-7/16	061087	HNG-C-307	51							

- # CONSULT DODGE FOR SIZES NOT LISTED.
- + NON-STOCK CONSULT DODGE FOR DELIVERY

SHAFT SIZE INCHES	А	В	С	D	E	F	L	P
1-15/16	8-1/4	6-1/4	2-3/4	4-5/8	3-3/8	2-15/16	3-7/8	5/8, 1-1/2
2-3/16	8-7/8	6-7/8	3	5-1/8	3-3/4	3-5/16	4-3/8	5/8, 1-1/2
2-3/8 2-7/16	9-5/8	7-5/8	3	5-3/8	4-1/8	3-1/2	4-21/32	5/8, 1-1/2
2-11/16 2-7/8 2-15/16	10-3/8	8-1/4	3-1/4	6-1/4	4-5/8	4	5-7/16	3/4, 2
3 3-3/16 3-7/16	11-1/4	9-1/4	4	6-3/4	5-1/8	4-1/2	5-15/16	3/4, 2-1/2

SELECTION/DIMENSIONS SPECIAL DUTY PAGE B6-25/B6-32 SELECTION/DIMENSIONS ALL STEEL PAGE B6-51/B6-56

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 adapter nut is used on sizes thru $3^{-1}/2^{-1}$ 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 $3^{-1}/2^n$ 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 $7-\frac{3}{16}$, 8" and 10". Combination labyrinth and dynaface seals shall be used.

SPECIAL DUTY AVAILABLE IN



PILLOW BLOCKS, 2-BOLT BASE $1-\frac{3}{8}$ " TO $3-\frac{1}{2}$ "

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-Sp. Duty PAGE B6-23

NOMENCLATURE-Sp.Duty **PAGE B6-24**

SELECTION-Sp.Duty **PAGE B6-25**

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 B6–24 and add any special instructions to the end of the description for options not covered by the nomenclature.

SPECIAL BEARING REQUIREMENTS AND LUBRICANTS

DODGE Special Duty Bearings are factory adjusted and pre-lubricated. For applications where extreme ambient temperatures, high speeds or high loads are expected, a variety of specialty lubricants and adjustments are available. Standard grease provided is Shell Alvania #2. Other general purpose greases available include Chevron SRI, Exxon Unirex

and Shell Alvania #2EP. Special service greases available include Mobiltemp 1, Aeroshell 7 and 17 and Shell Darina #2. High temperature greases available include Dow Corning Molykote 33, 44 and FS-1292, Moluballoy 896 HT and Mobilith SHC460. 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

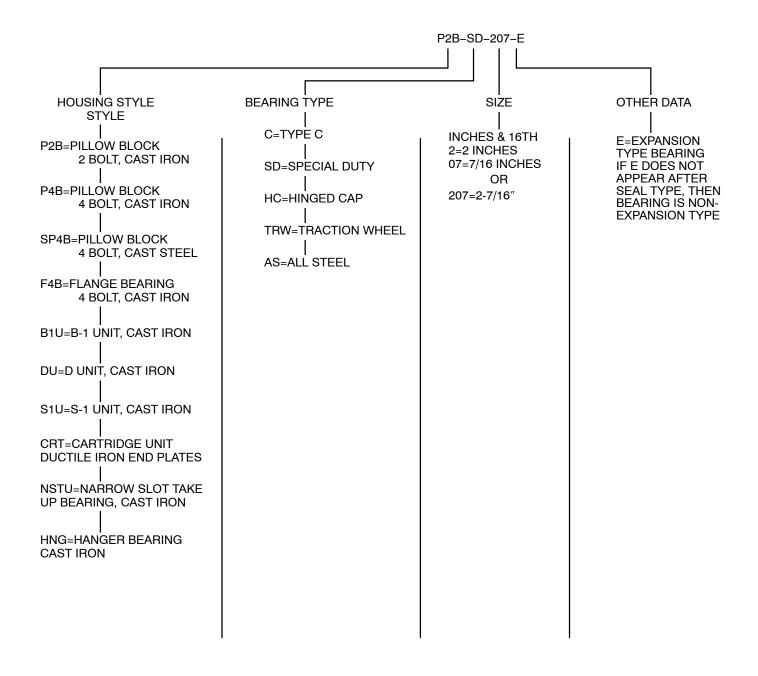
OTHER SPECIAL REQUIREMENTS NOT LISTED

For applications requiring modifications not listed, we encourage you to contact out Customer Order Engineering Department for Bearings at 864-297-4800.





Specialty Tapered Products



FEATURE/BENEFITS-Sp.Duty	HOW TO ORDER-Sp.Duty	EASY SELECTION-Sp.Duty	SPECIFICATION-Sp.Duty
PAGE B6-3	PAGE B6-23	PAGE B6-28	PAGE B6-22
l .			





Special Duty

SPECIAL DUTY-DOUBLE ROW TAPERED ROLLER BEARINGS

DODGE Special Duty Double Row Tapered Roller Bearings have the highest capacity of all DODGE Tapered Roller Bearings. They carry heavy radial loads and combined radial and thrust loads. The maximum recommended load which can be applied is limited by various components in the system such as bearing, housing, shaft, shaft attachment, speed and life requirements as listed in this catalog. DODGE Special Duty Tapered Roller Bearings have been applied successfully even when these limits have been exceeded under controlled operating conditions. Contact DODGE Application Engineering (864) 297-4800 for applications which exceed the recommendations of this catalog.

L₁₀ Hours Life* --- The life which may be expected from at least 90% of a given group of bearings operating under identical conditions.

$$L_{10} \, = \, \, \left(\frac{C_{90}}{P} \right)^{10/3} \, X \left(\frac{1,500,000}{RPM} \right)$$

Where:

C₉₀ = Dynamic Capacity (Table 4, pg. B6-28), lbs.

P = Equivalent Radial Load, lbs.

GENERAL

Heavy Service --- For heavy shock loads, frequent shock loads, or severe vibrations, add up to 50% (according to severity of conditions) to the Equivalent Radial Load. Consult DODGE Application Engineering for additional selection assistance.

Thrust load values shown in the table below are recommended as a guide for general applications that will give adequate L_{10} life for pillow blocks. The maximum thrust load should not exceed values shown on Table 5. Where substantial radial load is also present, it is advisable to calculate actual L_{10} life to assure that it meets the requirements. The effectiveness of the shaft attachment to carry thrust load depends on proper tightening, shaft tolerance (see table below) and shaft deflections. Therefore, it is advisable to use auxiliary thrust carrying devices such as shaft shoulder, snap ring or a thrust collar to locate the bearing under thrust loads heavier than shown below, or where extreme reliability is desired.

RPM RANGE	20-200	201-2000	over 2000
RECOMMENDED THRUST LOAD	C ₉₀ /4	C ₉₀ /8	C ₉₀ /12

The shaft tolerances recommended below are adequate for normal radial and radial/thrust load applications. Since the allowable load, especially at a low speed, is very large, the shaft should be checked to assure adequate shaft strength.

The magnitude and direction of both the thrust and radial load must be taken into account when selecting a housing. When pillow blocks are utilized, heavy loads should be directed through the base. Where uplift loads are involved, see Table 9, pg.B6–31 for maximum values. Where a load pulls the housing away from the mounting base, both the hold-down bolts and housing must be of adequate strength. Auxiliary load carrying devices such as shear bars are advisable for side or end loading of pillow blocks and radial load for flange units.

SHAFT SIZE	TOLERANCE, INCHES
UP TO 1-1/2"	+.000002"
1-9/16 TO 2-1/2	+.000003"
2-1/2 TO 4"	+.000004 "
4-3/16 TO 6"	+.000005 "
6-7/16 TO 8"	+.000006"

 L_{10} Life Adjustment --- The calculated L_{10} Life obtained from this procedure is subject to life adjustment factors in accordance with ABMA stan-

dards described on page B14-45. Consult Application Engineering for assistance.

SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
PAGE B6-8/B6-10	PAGE B6-25/B6-44	PAGE B6-47	PAGE B6-51/B6-56





Special Duty

SELECTING BEARINGS SUPPORTING RADIAL LOADS ONLY

- 4. Define L₁₀ Life Hours desired.
- Establish bearing radial load, F_R
 (F_R = P for Pure Radial Load Conditions).
 The DODGE program BEST[™] can be used to find application loads.
- 6. Establish RPM.

Using the easy selection Table 5, pg.B6–28 find, under the RPM column, the equivalent radial load that equals or is higher than the application radial load for the desired life. The shaft size on the far left will be the minimum shaft size that you can use for your application. If the desired life is different than the values shown on the chart, use alternate Method A shown below.

Example:

- 1. L10 Life = 30,000 Hours
- 2. Radial load = 3800 lbs.
- 3. RPM = 1,000

At the intersection of the 1,000 RPM column and the 30,000 hours L_{10} life row, the equivalent radial load of 5495 lbs. Exceeds the 3800 lbs. Radial load for shaft sizes 2-3/8" to 2-1/2". A bearing with bore ranging from 2-3/8" to 2-1/2" may be used for this application.

ALTERNATE METHOD A — SELECTING A BEARING FOR AN L_{10} LIFE VALUE NOT SHOWN IN THE EASY SELECTION CHART.

The L_{10} life equation can be rearranged so that the bearing dynamic capacity ${\bf C}$ is identified in terms of L_{10} , RPM and P.

$$C_{90} = \left(\frac{L_{10} X RPM}{1,500,000}\right)^{0.3} X P$$

(P = F_R for Pure Radial Load Conditions)

Since the L_{10} , RPM, and P are known, solve for C_{90} . Select from the dynamic capacity column on Table 4, pg.B6–28 the C_{90} value equal to or greater than the C_{90} value just calculated. The bore size on the far left represents the bore size selection. Check that the application RPM does not exceed the MAX. RPM on Table 4. When selecting an L_{10} life of less than 30,000 hours, particular attention must be paid to shaft deflection and proper lubricant selection.

SELECTING BEARINGS SUPPORTING COMBINATION RADIAL AND THRUST LOADS

When a bearing supports both a radial load and a thrust load, the loading on the two rows is shared unequally depending on the ratio of thrust to radial load. The use of the X (radial factor) and Y (thrust factor) from Table 4 converts the applied thrust load and radial loads to an equivalent radial load having the same effect on the life of the bearing as a radial load of this magnitude.

★The DODGE Bearing Evaluation and Selection Technique (BEST) is a menu driven computer program that calculates bearing loads, fatigue life and operating temperature for a two bearing shaft system based on user supplied input parameters. To order, call (864) 987-4800.

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SPECIFICATION-Sp.Duty PAGE B6-22 ENGINEER/TECH-Sp.Duty PAGE B6-30





Special Duty

The equivalent radial load $P = XF_R + YF_A$

Where:

P = Equivalent radial load. lbs.

F_R = Radial load, lbs.

 F_A = Thrust (axial) load, lbs.

e = Thrust load to radial load factor (Table 4)

X = Radial load factor (Table 4)

Y = Thrust load factor (Table 4)

To find X and Y, calculate F_A/F_R and compare to ${\bf e}$ for the selected bore size. Determine X and Y from Table 4, pg. B6–28 depending on whether F_A/F_R is equal to or less than ${\bf e}$, or F_A/F_R is greater than ${\bf e}$. Substitute all known values into the equivalent radial load equation. P (equivalent radial load) can be used in the life formula to determine L_{10} , or it can be compared to the allowable equivalent radial load ratings for the speed and hours life desired in the easy selection Table 5, pg.B6–28 & B6–29.

SELECTING BEARINGS SUPPORTING ONLY THRUST LOADS

Tapered Roller Bearings perform extremely well under pure thrust load applications. Use $P = YF_A$ for the equivalent radial load. The value of Y is obtained from Table 4, pg. B6–28 for F_A/F_R >**e**. Substitute Y and F_A into the equivalent load equation. P (equivalent radial load) can be used in the life formula to determine L_{10} or it can be compared to the allowable equivalent radial load ratings for the speed and hours life desired in the easy selection Table 5, pg. B6–28 & B6–29.

LUBRICATION

DODGE Special Duty Tapered Roller Bearings up to 5" bore are lubricated at the factory with Shell Alvania #2

grease. Above 5" bore they are lubricated with Mobil Mobilux #2. Shell Alvania #2 and Mobil Mobilux #2 greases are superior industrial greases using a lithium hydroxystearate thickener and highly refined base oil. These greases will adequately handle low and medium speeds with low and medium loads at normal temperatures as defined on Table 8, pg.B6-31. For very low and high speeds, for heavy loads and for low and high temperatures, special greases must be used. Contact DODGE Application Engineering (864) 297-4800. DODGE engineers will recommend bearings and lubricants for the above unusual conditions. DODGE also has the expertise to custom design and build special bearings for your needs. The only maintenance requirement for DODGE Tapered Roller Bearings is periodic relubrication at regular intervals as outlined in the appropriate instruction manu-

INSTALLATION AND MAINTENANCE

In nearly all applications good design practice requires two bearings supporting the shaft. In cases where three or more bearings are installed, unless precautions are taken to line the bearings up, both vertically and horizontally, it is possible to induce heavy loads. In the case of two bearings, alignment is not as critical, especially with DODGE Special Duty Tapered Roller Bearings. Special Duty bearings are designed to allow as much as 2° to 5° of static misalignment up to 8" bore size. 1° to 1.5° for bore sizes greater than 8". To ensure good alignment, mounting surfaces must be checked for flatness and must lie in the same plane. When tightening base bolts and cap bolts, each bolt should be alternately tightened in incremental torque values until full torque is achieved to prevent the angular shifting of the pillow block that occurs when one bolt is tightened to its full torque. Shimming may be required to minimize misalignment.

SELECTION/DIMENSIONS
TYPE C
PAGE B6-8/B6-10





Special Duty TABLE 4 - SPECIAL DUTY ROLLER BEARINGS RADIAL/THRUST FACTORS

SHAFT SIZE	e	F _A /F _R ≤e		F _A /F	- _{R≥} e		CAPACITY 90*	MAXIMUM RPM	
INCHES		X	Y	Х	Υ	LBS.	NEWTONS	RPIVI	
1-3/8 - 1-1/2	.31	.87	2.75	.70	3.32	7,690	34,217	3,250	
1-9/16 - 1-3/4	.35	.87	2.49	.70	3.01	8,260	36,753	2,900	
1-7/8 - 2	.36	.87	2.38	.70	2.87	8,550	38,044	2,700	
2-1/8 - 2-1/4	.41	.87	2.09	.70	2.52	9,290	41,336	2,300	
2-3/8 - 2-1/2	.39	.87	2.19	.70	2.64	13,500	60,069	2,180	
2-5/8 - 3	.41	.87	2.09	.70	2.52	19,400	86,322	1,830	
3-3/16 - 3-1/2	.48	.87	1.79	.70	2.16	24,900	110,794	1,510	
3-11/16 - 4	.43	.87	2.02	.70	2.44	34,200	152,175	1,330	
4-7/16 - 4-1/2	.50	.87	1.73	.70	2.09	35,900	159,739	1,120	
4-15/16 - 5	.45	.87	1.90	.70	2.30	48,400	215,358	1,040	
5-7/16 - 6	.48	.87	1.80	.70	2.18	62,000	275,873	860	
6-1/2 - 7	.54	.87	1.61	.70	1.95	68,700	305,685	760	
7-15/16 - 8	.34	.87	2.55	.70	3.08	79,200	352,406	700	
8-1/2 - 10	.45	.87	1.90	.70	2.30	76,500	340,392	550	
11 - 12	.34	.87	2.53	.70	3.06	124,000	551,746	490	

COMPARING SPHERICAL TO TAPER ROLLER BEARING
The dynamic capacity C (spherical) and C_{90} (taper) are not to the same base. To compare basic dynamic capacities, multiply C x .259 and compare to C_{90} . To select and then compare, use the complete* selection

TABLE 5 – DODGE SPECIAL DUTY TAPERED ROLLER BEARINGS

Shaft Size	Hours			Allowal	ole Equiva	alent Rad	ial Load F	Rating (Li	os.) at Vai	ious Rev	olutions I	Per Minute	e*	
Inches	Life	50	100	250	500	750	1000	1250	1500	1750	2000	2500	3000	3500
	5,000	13165	10690	8120	6595	5840	5360	5010	4745	4530	4350	4070	3855	3680
1-3/8	10,000	10690	8685	6595	5360	4745	4350	4070	3855	3680	3535	3305	3130	2990
1-7/16	30,000	7690	6245	4745	3855	3410	3130	2925	2770	2645	2540	2380	2250	2150
1-1/2	50,000	6595	5360	4070	3305	2925	2685	2510	2380	2270	2180	2040	1930	1845
	100,000	5360	4350	3305	2685	2380	2180	2040	1930	1845	1770	1655	1570	1500
	5,000	14140	11485	8725	7085	6275	5755	5385	5095	4865	4675	4370	4140	
1-9/16	10,000	11485	9330	7085	5755	5095	4675	4370	4140	3950	3795	3550	3360	
1-5/8	30,000	8260	6710	5095	4140	3665	3360	3145	2975	2840	2730	2555	2420	
1-11/16	50,000	7085	5755	4370	3550	3145	2885	2700	2555	2440	2345	2190	2075	
1-3/4	100,000	5755	4675	3550	2885	2555	2345	2190	2075	1980	1905	1780	1685	
	5,000	14635	11885	9030	7335	6495	5960	5570	5275	5035	4840	4525		
1-7/8	10,000	11885	9655	7335	5960	5275	4840	4525	4285	4090	3930	3675		
1-15/16	30,000	8550	6945	5275	4285	3795	3480	3255	3080	2940	2825	2645		
2	50,000	7335	5960	4525	3675	3255	2985	2790	2645	2525	2425	2270		
	100,000	5960	4840	3675	2985	2645	2425	2270	2145	2050	1970	1840		
	5,000	15900	12915	9810	7970	7055	6475	6055	5730	5475	5260			
2-1/8	10,000	12915	10490	7970	6475	5730	5260	4915	4655	4445	4270			
2-3/16	30,000	9290	7545	5730	4655	4120	3780	3535	3350	3195	3070			
2-1/4	50,000	7970	6475	4915	3995	3535	3245	3035	2870	2745	2635			
	100,000	6475	5260	3995	3245	2870	2635	2465	2335	2230	2140			
	5,000	23110	18770	14260	11580	10255	9405	8800	8330	7955	7640			
2-3/8	10,000	18770	15245	11580	9405	8330	7640	7145	6765	6460	6205			
2-7/16	30,000	13500	10965	9330	6765	5990	5495	5140	4865	4645	4465			
2-1/2	50,000	11580	9405	7145	5805	5140	4715	4410	4175	3985	3830			
	100,000	9405	7640	5805	4715	4175	3830	3580	3390	3235	3110			

	FEATURE/BENEFITS-Sp.Duty	NOMENCLATURE-Sp.Duty	SELECTION/DIMENSION-Sp.Duty	SELECTION-Sp.Duty
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١	PAGE B6-3	PAGE B6-24	PAGE 86-32	PAGE 86-25

procedure for each type of bearing and then compare.

*C₉₀ — Dynamic capacity based on a rated life of 90 million revolutions or 3000 hours at 500 RPM.





Special Duty

TABLE 5 - DODGE SPECIAL DUTY TAPERED ROLLER BEARINGS (CONT.)

Shaft	Hours			Allowak	ole Equiva	alent Rad	ial Load F	Rating (LI	bs.) at Vai	ious Rev	olutions	Per Minut	e*	
Size Inches	Life	50	100	250	500	750	1000	1250	1500	1750	2000	2500	3000	3500
2-5/8	5,000	33210	26975	20490	16645	14735	13520	12645	11970	11430				
2-11/16	10,000	26975	21910	16645	13520	11970	10980	10270	9725	9285				
2-3/4	30,000	19400	15755	11970	9725	8610	7895	7385	6995	6675				
2-15/16	50,000	16645	13520	10270	8340	7385	6775	6335	6000	5730				
3	100,000	13520	10980	8340	6775	6000	5505	5145	4875	4650				
	5,000	42625	34620	26300	21360	18915	17350	16225	15365					
3-3/16	10,000	34620	28120	21360	17350	15365	14095	13180	12480					
3-3/8	30,000	24900	20225	15365	12480	11050	10135	9480	8975					
3-7/16	50,000	21360	17350	13180	10705	9480	8695	8135	7700					
3-1/2	100,000	17350	14095	10705	8695	7700	7065	6505	6255					
3-11/16	5,000	58540	47550	36120	29340	25980	23830	22290						
3-3/4	10,000	47550	38625	29340	23830	21100	19355	18105						
3-7/8	30,000	34200	27780	21100	17140	15175	13920	13020						
3-15/16	50,000	29340	23830	18105	14705	13020	11945	11170						
4	100,000	23830	19355	14705	11945	10575	9700	9075						
	5,000	61450	49915	37920	30800	27270	25015							
4-7/16	10,000	49915	40545	30800	25015	22150	20320							
4-1/2	30,000	35900	29160	22150	17990	15930	14615							
	50,000	30800	25015	19005	15435	13670	12540							
	100,000	25015	20320	15435	12540	11100	10185							
	5,000	82850	67295	51120	41525	36765	33725							
4-15/16	10,000	67295	54660	41525	33725	29865	27395							
5	30,000	48400	39315	29865	24255	21480	19705							
	50,000	41525	33725	25620	20810	18425	16905							
	100,000	33725	27395	20810	16905	14965	13730							
	5,000	106130	86205	65485	53190	47100								
5-7/16	10,000	86205	70020	53190	43205	38255								
5-15/16	30,000	62000	50360	38255	31075	27515								
6	50,000	53190	43205	32820	26660	23605								
	100,000	43205	35090	26660	21655	19175								
	5,000	117600	95520	72560	58940	52190								
6-1/2	10,000	95520	77585	58940	47575	42390								
6-15/16	30,000	68700	55800	42390	34430	30490								
7	50,000	58940	47875	36365	29540	26155								
	100,000	47875	38885	29540	23995	21245								
	5,000	135570	110120	83650	67945	60165								
7-15/16	10,000	110120	89445	67945	55190	48870								
8	30,000	79200	64330	48870	39695	35145								
	50,000	67945	55190	41925	34055	30155								
	100,000	55190	44830	34055	27660	24490								
	5,000	130950	106365	80800	65630									<u> </u>
8-1/2	10,000	106365	86395	65630	53310									<u> </u>
9	30,000	76500	62135	47205	38340									<u> </u>
9-1/2	50,000	65630	53310	40495	32895							1	-	<u> </u>
10	100,000	53310	43300	32895	26715							1	1	
	5,000	212260	172410	130970	106380									
11	10,000	172410	140040	106380	86410									
12	30,000	124000	100720	76510	62145									
	50,000	106380	86410	65640	53315									
	100,000	86410	70185	53315	43305									

NOTE: See Table 4 on previous page for maximum RPM.

SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
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Special Duty TABLE 6 - SPECIAL DUTY PILLOW BLOCKS HOUSING PERMISSIBLE THRUST LOAD, LBS.*

TABLE 6 - SPECIAL DUTY PILLOW BLUCKS					
Shaft Size, Inches	2-Bolt	4-Bolt			
1-3/8					
1-7/16	1521				
1-1/2					
1-9/16					
1-5/8	1772				
1-11/16	1//2				
1-3/4					
1-7/8					
1-15/16	1964				
2					
2-1/8	2325				
2-3/16					
2-1/4					
2-3/8					
2-7/16	3122	3122			
2-1/2					
2-5/8					
2-11/16					
2-3/4					
2-13/16	4375	4375			
2-7/8					
2-15/16					
3					
3-3/16					
3-1/4					
3-3/8	6118	6118			
3-7/16					
3-1/2					

Shaft Size, Inches	2-Bolt	4-Bolt	
3-11/16			
3-3/4			
3-7/8		8250	
3-15/16			
4			
4-7/16		40500	
4-1/2		10538	
4-15/16		10100	
5		12190	
5-7/16			
5-15/16		17957	
6			
6-1/2			
6-15/16		24115	
7			
7-15/16		27260	
8		27200	
8-1/2			
9		20120	
9-1/2		38138	
10			
11		EOGEE	
12		50655	

The limits above apply to pillow blocks. For thrust loads larger than listed or heavy thrust loading on other style housing, contact DODGE Engineering for recommendation.

TABLE 7 - SPECIAL DUTY MAXIMUM TOTAL AXIAL EXPANSION

Ohatt Oha Jackson		Special Duty				
Shaft Size - Inches	2-Blt. P.B.	4-Blt.P.B.	Flg.			
1-3/8 - 1-1/2	3/16		3/16			
1-9/16 - 1-3/4	5/8	_	1/4			
1-7/8 - 2	5/8	_	1/4			
2-1/8 - 2-1/4	5/8	_	1/4			
2-3/8 - 2-1/2	5/8	5/8	1/4			
2-5/8 - 3	3/4	5/8	5/8			
3-3/16 - 3-1/2	3/4	3/4	3/4			
3-11/16 - 4	_	3/4	1/4			
4-7/16 - 4-1/2		3/4	5/8			
4-15/16 - 5		3/4	5/8			
5-7/16 - 6		3/4	5/8			
6-1/2 - 7	_	1-1/2	_			
7-15/16 - 8	_	1-1/2	_			
8-1/2 - 10	_	1-1/2	_			
11 - 12	_	1-1/2				

FEATURE/BENEFITS-Sp.Duty	HOW TO ORDER-Sp.Duty	SPECIFICATIONS-Sp.Duty	SELECTION-Sp.Duty
PAGE B6-3	PAGE B6-23	PAGE B6-22	PAGE B6-25





Special Duty

TABLE 8 - DEFINITION OF OPERATING CONDITIONS FOR TAPERED ROLLER BEARINGS

LOW SPEED	UP TO 20% OF MAX. RPM (TABLE 1)		
MEDIUM SPEED	OVER 20% TO 80% OF MAX. RPM		
HIGH SPEED	OVER 80% OF MAX. RPM		
LIGHT LOAD	UP TO 30% OF C ₉₀ (TABLE 1)		
NORMAL LOAD	OVER 30% TO 70% OF C ₉₀		
HEAVY LOAD	OVER 70% OF C ₉₀		
LOW TEMPERATURE	-100°F TO 20°F		
MEDIUM TEMPERATURE	OVER 20°F TO 200°F		
HIGH TEMPERATURE	OVER 200°F TO 300°F		
VERY HIGH TEMPERATURE	OVER 300°F TO 450°F		

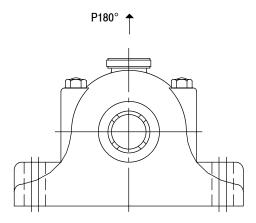


TABLE 9 - PILLOW BLOCK HOUSING RATINGS, SPECIAL DUTY

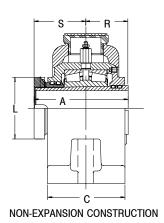
SHAFT	HOUSING STRENGTH LBS.
SIZE	GRAY IRON
(INCHES)	180°
1-3/8 - 1-1/2	3,470
1-9/16 - 1-3/4	4,430
1-7/8 - 2	5,250
2-1/8 - 2-1/4	7,300
2-3/8 - 2-1/2	7,200
2-5/8 - 3	10,600
3-3/16 - 3-1/2	13,000
3–11/6 – 4	21,600
4-7/16 - 4-1/2	25,800
4-15/16 - 5	22,900
5-7/16 - 6	41,500
6-1/2 - 7	82,000
7-15/16 - 8	104,000

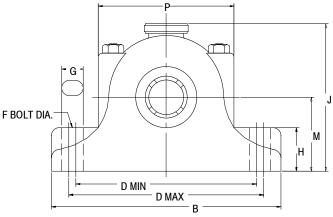
SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
PAGE B6-8/B6-10	PAGE B6-25/B6-44	PAGE B6-47	PAGE B6-51/B6-56

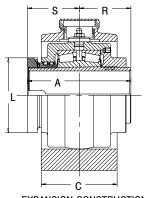




Special Duty Pillow Block - Inch







	GRAY IRON NON-EXPANSION*					
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)			
1-3/8	066213+	P2B-SD-106	20			
1-7/16	066214	P2B-SD-107	20			
1-1/2	066300	P2B-SD-108	20			
1-9/16 1-5/8 1-11/16 1-3/4	066212+ 066228+ 066216 066301	P2B-SD-109 P2B-SD-110 P2B-SD-111 P2B-SD-112	27 27 27 27 27			
1-7/8	066217+	P2B-SD-114	33			
1-15/16	066218	P2B-SD-115	32			
2	066302	P2B-SD-200	32			
2-1/8	066215+	P2B-SD-202	48			
2-3/16	066220	P2B-SD-203	47			
2-1/4	066303	P2B-SD-204	47			
2-7/16	066222	P2B-SD-207	56			
2-1/2	066246	P2B-SD-208	56			
2-5/8	066223+	P2B-SD-210	84			
2-11/16	066304	P2B-SD-211	84			
2-3/4	066226	P2B-SD-212	84			
2-15/16	066230	P2B-SD-215	82			
3	066305	P2B-SD-300	82			
3-3/16	066232+	P2B-SD-303	120			
3-3/8	066237+	P2B-SD-306	119			
3-7/16	066234	P2B-SD-307	118			
3-1/2	066236	P2B-SD-308	118			

*	Furnis	shec	l Un	less	Otherwis	se	Spe	ecitie	d
	_								

#	Consult DODGE For Sizes Not Listed.
+	Non-Stock Consult DODGE For Delivery

	GRAY IRON	EXPANSION	
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
1-3/8	066249+	P2B-SD-106E	22
1-7/16	066250	P2B-SD-107E	22
1-1/2	066306	P2B-SD-108E	22
1-9/16	066248+	P2B-SD-109E	28
1-5/8	066243+	P2B-SD-110E	28
1-11/16	066252	P2B-SD-111E	28
1-3/4	066307	P2B-SD-112E	28
1-7/8	066253+	P2B-SD-114E	33
1-15/16	066254	P2B-SD-115E	32
2	066308	P2B-SD-200E	32
2-1/8	066257+	P2B-SD-202E	50
2-3/16	066256	P2B-SD-203E	49
2-1/4	066309	P2B-SD-204E	49
2-7/16	066258	P2B-SD-207E	60
2-1/2	066247	P2B-SD-208E	60
2-5/8	066262+	P2B-SD-210E	80
2-11/16	066310	P2B-SD-211E	80
2-3/4	066263+	P2B-SD-212E	80
2-15/16	066266	P2B-SD-215E	78
3	066311	P2B-SD-300E	78
3-3/16	066269+	P2B-SD-303E	120
3-3/8	066271+	P2B-SD-306E	119
3-7/16	066270	P2B-SD-307E	118
3-1/2	066273	P2B-SD-308E	118

Consult DODGE For Sizes Not Listed.

FEATURE/BENEFITS-Sp.Duty	NOMENCLATURE-Sp.Duty	EASY SELECTION-Sp.Duty	SELECTION-Sp.Duty
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Non-Stock -- Consult DODGE For Delivery





Special Duty Pillow Block - Inch

SHAFT)	F						_	_		
SIZE INCHES	Α	В	С	MIN.	MAX.	BOLT DIA.	G	н	J	L	М	P	R	S	EXP*
1-3/8															
1-7/16	4	9	3	6-7/8	7-5/8	1/2	1	2-1/8	6-1/4	2-7/16	2-7/8	5-7/8	1-13/16	2-3/16	3/16
1-1/2															
1-9/16															
1-5/8	4-1/8	0.1/0	0.7/16	7-9/16	7-15/16	1/2		0.0/0	6 10/16	2-13/16	0.1/0	F 15/16	1 7/0	0.1/4	5/8
1-11/16	4-1/8	9-1/2	3-7/16	7-9/10	7-15/16	1/2	1	2-3/8	0-13/10	2-13/16	3-1/8	5-15/16	1-7/8	2-1/4	5/8
1-3/4															
1-7/8															
1-15/16	4-1/4	11	3-1/2	8-1/4	9-1/4	5/8	1-1/4	2-1/2	7-1/8	3-1/16	3-1/4	7-1/4	1-15/16	2-5/16	5/8
2															
2-1/8															
2-3/16	4-9/16	12	4	9-1/8	10-3/8	5/8	1-1/4	2-7/8	8	3-7/16	3-3/4	7-1/4	2-1/16	2-1/2	5/8
2-1/4															
2-7/16	5-1/16	13-1/4	4-1/4	10	11-1/2	3/4	1-1/2	3	8-9/16	3-13/16	4	7-13/16	2-5/16	2-3/4	5/8
2-1/2	5-1/10	13-1/4	4-1/4	10	11-1/2	3/4	1-1/2	3	6-9/10	3-13/10	4	7-13/10	2-5/10	2-3/4	5/6
2-5/8															
2-11/16															
2-3/4	5-3/4	14-1/4	4-3/4	11	12-1/2	3/4	1-1/2	3-3/4	9-7/8	4-7/16	4-3/4	8-11/16	2-5/8	3-1/8	3/4
2-15/16															
3															
3-3/16															
3-3/8	6-3/8	16.0/4	E 1/0	10 1/4	14 1/4	7/8	1 1/0	_	11 0/0	F 1/10	E 1/0	11 1/4	0.15/10	0.7/16	0/4
3-7/16	0-3/8	16-3/4	5-1/2	13-1/4	14-1/4	//8	1-1/2	4	11-3/8	5-1/16	5-1/2	11-1/4	2-15/16	3-7/16	3/4
3-1/2															

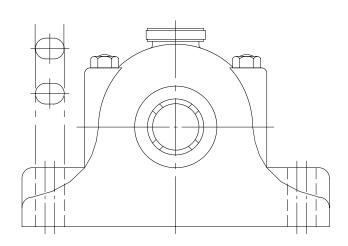
^{*} Total Expansion Divided Equally On Both Sides Of Bearing (Expansion Bearing Only)

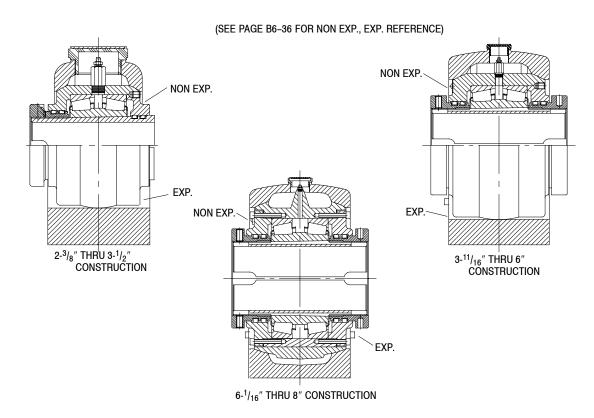
SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
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Special Duty Pillow Block - Inch





FEATURE/BENEFITS-Sp.Duty
PAGE B6-3





Specialty Tapered Products - Inch

SPECIAL DUTY PILLOW BLOCK 2-BOLT BASE

GRAY IRON NON-EXPANSION *								
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)					
2-3/8	066360+	P4B-SD-206	60					
2-7/16	066224	P4B-SD-207	60					
2-1/2	066244	P4B-SD-208	60					
2-11/16	066225	P4B-SD-211	82					
2-3/4	066363+	P4B-SD-212	82					
2-7/8	066365+	P4B-SD-214	81					
2-15/16	066231	P4B-SD-215	80					
3	066366+	P4B-SD-300	80					
3-3/16	066367+	P4B-SD-303	124					
3-3/8	066370+	P4B-SD-306	122					
3-7/16	066235	P4B-SD-307	120					
3-1/2	066371	P4B-SD-308	120					
3-11/16 3-3/4 3-7/8 3-15/16 4	066372+ 066373+ 066374+ 066238 066375	P4B-SD-311 P4B-SD-312 P4B-SD-314 P4B-SD-315 P4B-SD-400	215 215 215 215 215 215					
4-7/16	066240	P4B-SD-407	296					
4-1/2	066377	P4B-SD-408	296					
4-15/16	066242	P4B-SD-415	380					
5	066378+	P4B-SD-500	380					
5-7/16	066379+	P4B-SD-507	585					
5-15/16	066381+	P4B-SD-515	585					
6	066382+	P4B-SD-600	585					
6-1/2	066384+	P4B-SD-608	1050					
6-15/16	066385+	P4B-SD-615	1050					
7	066386+	P4B-SD-700	1050					
7-15/16	066388+	P4B-SD-715	1550					
8	066389+	P4B-SD-800	1550					

^{*} Furnished Unless Otherwise Specified

	GRAY IRON	EXPANSION	
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
2-3/8	066400+	P4B-SD-206E	60
2-7/16	066260	P4B-SD-207E	60
2-1/2	066245	P4B-SD-208E	60
2-11/16	066261	P4B-SD-211E	82
2-3/4	066403+	P4B-SD-212E	82
2-7/8	066405+	P4B-SD-214E	81
2-15/16	066268	P4B-SD-215E	80
3	066406+	P4B-SD-300E	80
3-3/16	066407+	P4B-SD-303E	124
3-3/8	066409+	P4B-SD-306E	122
3-7/16	066272	P4B-SD-307E	120
3-1/2	066411	P4B-SD-308E	120
3-11/16 3-3/4 3-7/8 3-15/16 4	066412+ 066413+ 066414+ 066274 066415	P4B-SD-311E P4B-SD-312E P4B-SD-314E P4B-SD-315E P4B-SD-400E	230 230 230 230 230 230
4-7/16	066276	P4B-SD-407E	296
4-1/2	066417	P4B-SD-408E	296
4-15/16	066278	P4B-SD-415E	380
5	066418+	P4B-SD-500E	380
5-7/16	066419+	P4B-SD-507E	585
5-15/16	066421+	P4B-SD-51SE	585
6	066422+	P4B-SD-600E	585
6-1/2	066424+	P4B-SD-608E	1050
6-15/16	066425+	P4B-SD-615E	1050
7	066426+	P4B-SD-700E	1050
7-15/16	066428+	P4B-SD-715E	1550
8	066429+	P4B-SD-800E	1550

[#] Consult DODGE For Sizes Not Listed.

SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
PAGE B6-8/B6-10	PAGE B6-25/B6-44	PAGE B6-47	PAGE B6-51/B6-56

[#] Consult DODGE For Sizes Not Listed.

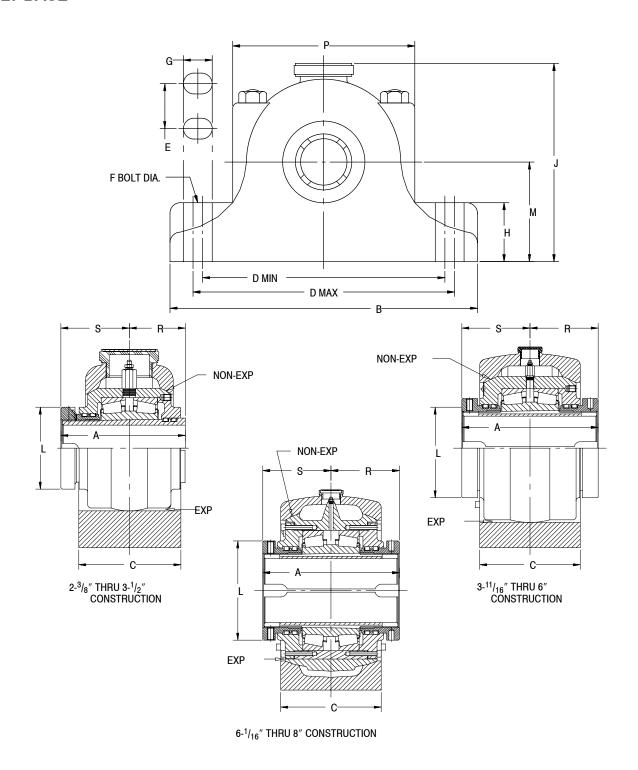
 $^{+ \}quad {\sf Non\text{-}Stock--Consult\ DODGE\ For\ Delivery}$

⁺ Non Stock — Consult DODGE For Delivery





Special Duty Pillow Block - Inch



FEATURE/BENEFITS-Sp.Duty	HOW TO ORDER-Sp.Duty	SPECIFICATIONS-Sp.Duty	ENGINEER/TECH-Sp.Duty
PAGE B6-3	PAGE B6-23	PAGE B6-22	PAGE B6-30
\			



Special Duty Pillow Block - Inch

4-BOLT BASE

SHAFT	A	B*	C*	С)	E	F BOLT	G*	H*	J	L	М	P*	R	s	EXP**
Inches	^	B	U.	MIN.	MAX.	_	DIA.	l G.	п.	"	-	IVI	F"	n	3	EXP
2-3/8 2-7/16 2-1/2	5-1/16	13-1/4	4-1/4	9-7/8	11-5/8	2-1/2	5/8	1-1/2	3	8-9/16	3-13/16	4	7-13/16	2-5/16	2-3/4	5/8
2-3/4 2-11/16 2-7/8 2-15/16 3	5-3/4	14-1/4	4-3/4	10-7/8	12-5/8	2-3/4	5/8	1-1/2	3-3/4	9-7/8	4-7/16	4-3/4	8-11/16	2-5/8	3-1/8	5/8
3-3/16 3-3/8 3-7/16 3-1/2	6-3/8	16-3/4	5-1/2	13	14-1/2	3-1/4	3/4	1-1/2	4	11-3/8	5-1/16	5-1/2	10-1/4	2-15/16	3-7/16	3/4
3-11/16 3-3/4 3-7/8 3-15/16 4	8-1/2	19	7	15	16	3-1/4	7/8	1-1/2	4	13-3/8	6-1/4	6-3/8	13-3/4	4-1/4	4-1/4	3/4
4-7/16 4-1/2	9-1/2	20	7-1/2	15-1/2	17-1/2	3-1/2	7/8	1-7/8	4	14-1/2	7-1/4	7-1/4	12-5/8	4-3/4	4-3/4	3/4
4-15/16 5	10-1/2	23	8-1/4	17-3/4	19-3/4	3-3/4	1	2-1/8	4-1/4	15-5/8	8	7-1/2	16-1/2	5-1/4	5-1/4	3/4
5-7/16 5-15/16 6	12	26-3/4	9-1/4	21-3/8	23-5/8	5	1-1/8	2-1/4	5	19	9-1/2	9	17-3/8	6	6	3/4
6-1/2 6-15/16 7	13-1/2	34-3/8	10-1/4	27-1/2	30-1/2	5-1/2	1-1/2	3	6	23	11	11-1/4	23-1/2	6-3/4	6-3/4	1-1/2
7-15/16 8	14-1/2	38-3/4	11-1/4	30-1/2	34	6	1-3/4	3-1/2	7	26	12-1/2	12-1/2	25-1/8	7-1/4	7-1/4	1-1/2

^{*} These Are As Cast Surfaces. Dimensions May Fluctuate Due To Draft Angles And Pattern Shifts.

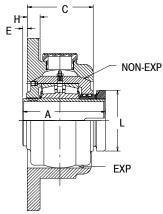
SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
PAGE B6-8/B6-10	PAGE B6-25/B6-44	PAGE B6-47	PAGE B6-51/B6-56

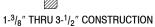
^{**} Exp-Total Expansion Divided Equally On Both Sides Of Bearing (Expansion Bearing Only)

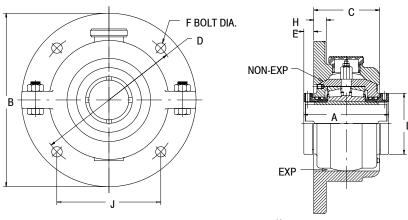




Special Duty Flange Bearing – Inch







 $3-^{11}/_{16}$ " THRU 6" CONSTRUCTION

	GRAY IRON NO	N-EXPANSION*	
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
1-3/8	104160+	F4B-SD-106	21
1-7/16	104020	F4B-SD-107	21
1-1/2	104161+	F4B-SD-108	21
1-11/16	104021	F4B-SD-111	30
1-3/4	104162+	F4B-SD-112	30
1-15/16	104022	F4B-SD-115	37
2	104164+	F4B-SD-200	37
2-3/16	104023	F4B-SD-203	46
2-3/8	104169+	F4B-SD-206	62
2-7/16	104024	F4B-SD-207	62
2-1/2	104170+	F4B-SD-208	62
2-11/16	104172	F4B-SD-211	85
2-3/4	104173+	F4B-SD-212	83
2-15/16	104025	F4B-SD-215	81
3	104176	F4B-SD-300	81
3-3/16	104177+	F4B-SD-303	141
3-7/16	104026	F4B-SD-307	139
3-1/2	104181+	F4B-SD-308	138
3-15/16	104027+	F4B-SD-315	230
4	104010+	F4B-SD-400	229
4-7/16	104028+	F4B-SD-407	325
4-15/16	104029+	F4B-SD-415	430
5	104013+	F4B-SD-500	428
5-15/16	104016+	F4B-SD-515	560
6	104018+	F4B-SD-600	560

- Furnished Unless Otherwise Specified Consult DODGE For Sizes Not Listed. Non-Stock Consult DODGE For Delivery

	GRAY IRON	EXPANSION	
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
1-3/8	104195+	F4B-SD-106E	22
1-7/16	104030	F4B-SD-107E	22
1-1/2	104196+	F4B-SD-108E	22
1-11/16	104031	F4B-SD-115E	30
1-3/4	104197+	F4B-SD-112E	30
1-15/16	104032+	F4B-SD-115E	37
2	104199+	F4B-SD-200E	37
2-3/16	104033	F4B-SD-203E	49
2-3/8	104204+	F4B-SD-206E	64
2-7/16	104034	F4B-SD-207E	64
2-1/2	104205+	F4B-SD-208E	64
2-11/16	104207+	F4B-SD-211E	88
2-3/4	104208+	F4B-SD-212E	86
2-15/16	104035	F4B-SD-215E	85
3	104211+	F4B-SD-300E	84
3-3/16	104212+	F4B-SD-303E	145
3-7/16	104036	F4B-SD-307E	144
3-1/2	104216+	F4B-SD-308E	143
3-15/16	104037+	F4B-SD-315E	234
4	104003+	F4B-SD-400E	234
4-7/16	104038+	F4B-SD-407E	325
4-15/16	104039+	F4B-SD-415E	430
5	104006+	F4B-SD-500E	428
5 15/16	104017+	F4B-SD-515E	560
6	104019+	F4B-SD-600E	560

- Consult DODGE For Sizes Not Listed. Non-Stock Consult DODGE For Delivery

FEATURE/BENEFITS-Sp.Duty	NOMENCLATURE-Sp.Duty	EASY SELECTION-Sp.Duty	SELECTION-Sp.Duty
PAGE B6-3	PAGE B6-24	PAGE B6-28	PAGE B6-25
ı			





Special Duty Flange Bearing - Inch

SHAFT SIZE INCHES	А	В	С	D	E	F BOLT DIA.	н	J	L	EXP*
1-3/8										
1-7/16	4	8-1/4	3	7	5/16	1/2	5/8	4.950	2-7/16	3/16
1-1/2										
1-11/16	4.4/0		0.0/0	7.5/0	0/40	1/0	44/40	F 000	0.40/40	4/4
1-3/4	4-1/8	9	3-3/8	7-5/8	3/16	1/2	11/16	5.392	2-13/16	1/4
1-15/16 2	4-1/4	10	3-1/2	8-3/8	3/16	5/8	3/4	5.922	3-1/16	1/4
2-3/16	4-9/16	10-3/4	4	9-1/8	1/16	5/8	13/16	6.452	3-7/16	1/4
2-3/8										
2-7/16	5-1/16	12	4-1/4	10-1/4	3/16	3/4	7/8	7.248	3-13/16	1/4
2-1/2										
2-11/16										
2-3/4	5.0/4	10	4.5/0	44.44	F/40	0/4		7.055	4.7/40	5.00
2-15/16	5-3/4	13	4-5/8	11-1/4	5/16	3/4	1	7.955	4-7/16	5/8
3										
3-3/16										
3-7/16	6-3/8	14-1/2	5-3/8	12-1/2	1/4	7/8	1-1/8	8.839	5-1/16	1/4
3-1/2										
3-15/16	0.4/0	40	0.0/4	45.0/4	7/0		4.4/4	44.407	0.4/4	414
4	8-1/2	18	6-3/4	15-3/4	7/8	1	1-1/4	11.137	6-1/4	1/4
4-7/16	9-1/2	19-1/2	7-1/4	17	1-1/8	1-1/8	1-3/8	12.021	7-1/4	5/8
4-15/16									_	- 10
5	10-1/2	21-1/2	8-1/4	19	1	1-1/8	1-3/4	13.435	8	5/8
5-15/16	40	05.4/0		20.4/0	4.4/0		4.044	45.040	0.4/0	5 /0
6	12	25-1/2	9	22-1/2	1-1/2	1-1/4	1-3/4	15.910	9-1/2	5/8

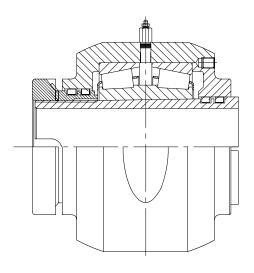
^{*} Exp-Total Expansion Divided Equally On Both Sides Of Bearing (Expansion Bearing Only)

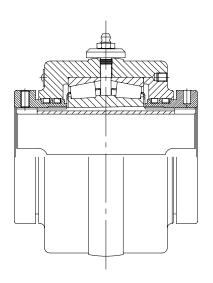
SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
PAGE B6-8/B6-10	PAGE B6-25/B6-44	PAGE B6-47	PAGE B6-51/B6-56



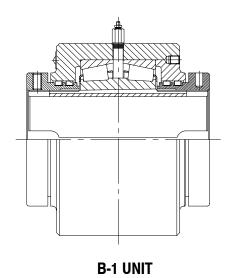


Special Duty Units - Inch

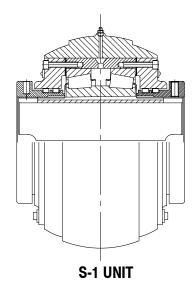




S-1 UNIT
3-11/16" THRU 6" CONSTRUCTION



 $3-^{11}/_{16}$ " THRU 6" CONSTRUCTION



 $6-^1/_{16}{}^{\prime\prime}$ THRU $8^{\prime\prime}$ CONSTRUCTION

FEATURE/BENEFITS-Sp.Duty PAGE B6-3 HOW TO ORDER-Sp.Duty PAGE B6-23 SPECIFICATIONS-Sp.Duty PAGE B6-22 ENGINEER/TECH-Sp.Duty PAGE B6-30





Special Duty Units - Inch

			SPECIAL D	DUTY UNITS			
SHAFT	D UN	NITS	S-1 L	JNITS	B-1 l	JNITS	WEIGHT
SIZE	PART	PART	PART	PART	PART	PART	LBS
INCHES #	NUMBER	NAME	NUMBER	NAME	NUMBER	NAME	(APPROX)
1-3/8	066445+	DU-SD-106	066500+	S1U-SD-106	066560+	B1U-SD-106	7
1-7/16	066280	DU-SD-107	066290	S1U-SD-107	066315	B1U-SD-107	7
1-1/2	066446+	DU-SD-108	066501	S1U-SD-108	066561	B1U-SD-108	7
1-9/16	066444+	DU-SD-109	066499+	S1U-SD-109	066559+	B1U-SD-109	10
1-5/8	066324+	DU-SD-110	066312+	S1U-SD-110	066314+	B1U-SD-110	10
1-11/16	066281	DU-SD-111	066291	S1U-SD-111	066316	B1U-SD-111	10
1-3/4	066447	DU-SD-112	066502	S1U-SD-112	066562	B1U-SD-112	10
1-7/8	066448	DU-SD-114	066503	S1U-SD-114	066563+	B1U-SD-114	12
1-15/16	066282	DU-SD-115	066292	S1U-SD-115	066317	B1U-SD-115	12
2	066464	DU-SD-200	066504+	S1U-SD-200	066564	B1U-SD-200	12
2-1/8	066450+	DU-SD-202	066506+	S1U-SD-202	066566+	B1U-SD-202	16
2-3/16	066283	DU-SD-203	066293	S1U-SD-203	066318	B1U-SD-203	16
2-1/4	066451	DU-SD-204	066507+	S1U-SD-204	066567+	B1U-SD-204	16
2-3/8	066453	DU-SD-206	066509+	S1U-SD-206	066569+	B1U-SD-206	20
2-7/16	066284	DU-SD-207	066294	S1U-SD-207	066319	B1U-SD-207	20
2-1/2	066285	DU-SD-208	066510	S1U-SD-208	066570	B1U-SD-208	20
2-5/8	066455+	DU-SD-210	066511+	\$1U-SD-210	066571+	B1U-SD-210	29
2-11/16	066279	DU-SD-211	066326	\$1U-SD-211	066572+	B1U-SD-211	29
2-3/4	066456+	DU-SD-212	066512+	\$1U-SD-212	066573+	B1U-SD-212	29
2-13/16	066457+	DU-SD-213	066513+	\$1U-SD-213	066574+	B1U-SD-213	29
2-7/8	066458+	DU-SD-214	066514+	\$1U-SD-214	066575+	B1U-SD-214	29
2-15/16	066286	DU-SD-215	066295	\$1U-SD-215	066320	B1U-SD-215	29
3	066459	DU-SD-300	066515	\$1U-SD-300	066576	B1U-SD-300	29
3-3/16	066460+	DU-SD-303	066516+	\$1U-SD-303	066577+	B1U-SD-303	47
3-1/4	066461+	DU-SD-304	066517+	\$1U-SD-304	066578+	B1U-SD-304	47
3-3/8	066463+	DU-SD-306	066519+	\$1U-SD-306	066580+	B1U-SD-306	47
3-7/16	066287	DU-SD-307	066296	\$1U-SD-307	066321	B1U-SD-307	47
3 1/2	066465	DU-SD-308	066520	\$1U-SD-308	066581+	B1U-SD-308	47
3-11/16 3-3/4 3-7/8 3-15/16	066466+ 066467+ 066468+ 066288 066469+	DU-SD-311 DU-SD-312 DU-SD-314 DU-SD-315 DU-SD-400	066521+ 066522+ 066523+ 066297 066524	\$1U-SD-311 \$1U-SD-312 \$1U-SD-314 \$1U-SD-315 \$1U-SD-400	066582+ 066583+ 066584+ 066322 066585+	B1U-SD-311 B1U-SD-312 B1U-SD-314 B1U-SD-315 B1U-SD-400	94 94 94 94 94
4-7/16	066289	DU-SD-407	066298	S1U-SD-407	066587	B1U-SD-407	116
4-1/2	066471+	DU-SD-408	066526+	S1U-SD-408	066588+	B1U-SD-408	116
4-15/16	066325	DU-SD-415	066299	S1U-SD-415	066589+	B1U-SD-415	175
5	066472+	DU-SD-500	066527+	S1U-SD-500	066590+	B1U-SD-500	175
5-7/16	066473+	DU-SD-507	066528+	S1U-SD-507	066591+	B1U-SD-507	300
5-15/16	066475+	DU-SD-508	066530+	S1U-SD-508	066593+	B1U-SD-508	300
6	066476+	DU-SD-600	066531+	S1U-SD-600	066594+	B1U-SD-600	300
6-1/2	066478+	DU-SD-608	066533+	S1U-SD-608	066596+	B1U-SD-608	560
6-15/16	066479+	DU-SD-615	066534+	S1U-SD-615	066598+	B1U-SD-615	560
7	066480+	DU-SD-700	066535+	S1U-SD-700	066607+	B1U-SD-700	560
7-15/16	066482+	DU-SD-715	066537+	S1U-SD-715	066600+	B1U-SD-715	800
8	066483+	DU-SD-800	066538+	S1U-SD-800	066601+	B1U-SD-800	800
8-1/2	066484+	DU-SD-808	066539+	S1U-SD-808	066602+	B1U-SD-808	1380
9	066485+	DU-SD-900	066540+	S1U-SD-900	066603+	B1U-SD-900	1380
9-1/2	066486+	DU-SD-908	066541+	S1U-SD-908			1380
10	066487+	DU-SD-1000	066542+	S1U-SD-1000	066604+	B1U SD 1000	1380
11	066488+	DU-SD-1100	066543+	S1U-SD-1100	066605+	B1U-SD-1100	1890
12	066489+	DU-SD-1200	066544+	S1U-SD-1200	066606+	B1U-SD-1200	1890

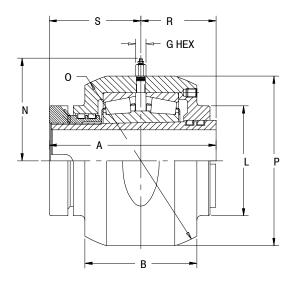
Consult DODGE For Sizes Not Listed. Non-Stock - Consult DODGE For Delivery

SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	HINGED CAP	TRACTION WHEEL	ALL STEEL
PAGE B6-8/B6-10	PAGE B6-25/B6-44	PAGE B6-47	PAGE B6-51/B6-56

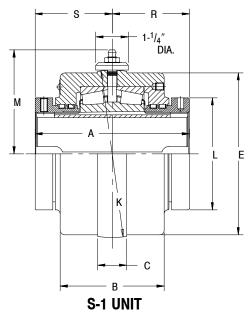




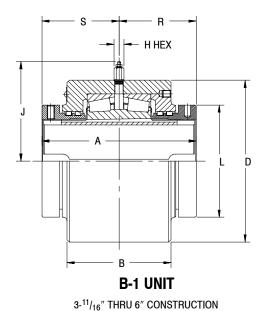
Special Duty Units - Inch

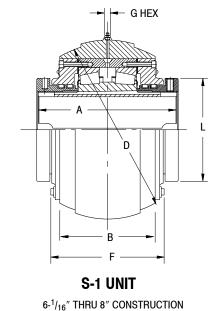


D UNIT $1^{-3}/8^{"}$ THRU $3^{-1}/2^{"}$ CONSTRUCTION



3-11/16" THRU 6" CONSTRUCTION





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Special Duty Units - Inch

SHAFT																	
SIZE	Α	В	С	D*	E	F	G	н	J	К	L	М	N	0	Р	R	S
1-3/8																	
1-7/16 1-1/2	4	2-11/16	3/4	3-7/8	3-3/4		7/16	5/8	3-1/16	4-1/16*	2-7/16	2-11/16	2-1/2	4.438*	3-15/16	1-13/16	2-3/16
1-9/16																	
1-5/8	4-1/8	3-1/8	3/4	4-1/4	4-1/8		7/16	5/8	4-1/4	4-7/16*	2-13/16	2-7/8	2-3/4	5.000*	4-1/2	1-7/8	2-1/4
1-11/16	, -	, -	-, -	, .	, -		.,	-,-	, .	,	,	,-	, .		,=	,-	, .
1-3/4 1-7/8																	
1-7/6	4-1/4	3-1/4	7/8	4-3/4	4-1/2		5/8	5/8	4-3/4	*	3-1/16	3-1/16	2-7/8	5.313*	4-3/4	1-15/16	2-5/16
2	,-	0 1,4	1,0	7 0,7	7 1/2		0,0	0,0	1 5,4	4-13/16	0 1,10	0 1,10	2 1,0	0.010	7 0,4	1 10,10	2 0,10
2-1/8																	
2-3/16	4-9/16	3-1/2	7/8	5-1/4	5-1/16		5/8	5/8	5-1/4	5-3/8*	3-7/16	3-5/16	3-3/16	6.000*	5-3/8	2-1/16	2-1/2
2-1/4																	
2-3/8					// -			- /-		*				+			
2-7/16	5-1/16	4	1	5-3/4	5-5/16		3/4	5/8	5-3/4	5-11/16	3-13/16	3-1/2	4-3/32	6.375*	5-11/16	2-5/16	2-3/4
2-1/2 2-5/8																	
2-11/16																	
2-3/4																	
2-13/16	5-3/4	4-7/16	1	6-1/2	6-3/16		3/4	3/4	6-1/2	6-9/16*	4-7/16	4-3/16	4-1/2	7.313*	6-1/2	2-5/8	3-1/8
2-7/8																	
2-15/16																	
3																	
3-3/16 3-1/4																	
3-1/4	6-3/8	5	1-1/4	7-3/4	7-5/8		3/4	3/4	5-3/8	8♥	5-1/16	4-7/8	5-9/16	8.625	8	2-15/16	3-7/16
3-7/16	0 0,0		, .	, .	. 5,5		٥, .	٥, .	0 0,0		0 ., . 0	,.	0 0, . 0	0.020		,	0 17.0
3-1/2																	
3-11/16																	
3-3/4										_							
3-7/8	8-1/2	6-1/4	1-1/2	9-1/4	9		3/4	3/4	6-1/8	9-1/2♥	6-1/4	5-5/8	6-3/8	10.250◆	9-3/4	4-1/4	4-1/4
3-15/16 4																	
4-7/16																	
4-1/2	9-1/2	6-5/8	1-3/4	10-1/2	10-1/16		3/4	3/4	6-3/4	10-5/8 ♥	7-1/4	6-3/16	6-11/16	11.125	10-3/8	4-3/4	4-3/4
4-15/16 5	10-1/2	7-3/8	2	11-3/4	10-7/8		3/4	3/4	7-3/8	11-1/2♥	8	6-5/8	7-7/16	12.500	11-7/8	5-1/4	5-1/4
5-7/16														_			
5-15/16 6	12	8-1/2	2-1/4	13-1/2	13		3/4	3/4	8-1/4	14♥	9-1/2	7-7/8	8-9/16	14.375 [§]	14-1/8	6	6
6-1/2																	
6-15/16 7	13-1/2	9-5/16		14-3/4		9-13/16	1	1	8-7/8		11		10-7/8	18.000§	17	6-3/4	6-3/4
7-15/16														_			
8	14-1/2	9-15/16		16-1/4		10-1/16	1	1	9-5/8		12-1/2		12-1/2	20.125 [§]	19-1/8	7-1/4	7-1/4
8-1/2																	
9	17	11-1/2		19-1/2		11-3/4	1	1	11-1/4		14-5/8		14-1/2	24.000§	23-1/2	8-1/2	8-1/2
9-1/2 10																	
11																	
12	18-1/2	12-3/4		23		13-1/4	1	1	13		17		17-5/8	28.500 [§]	28	9-1/4	9-1/4
	2 00								•	. 000	002"	L	L	L	L		

* +.000 - .002"

/ -.000 – .004"

+.000 - .003"

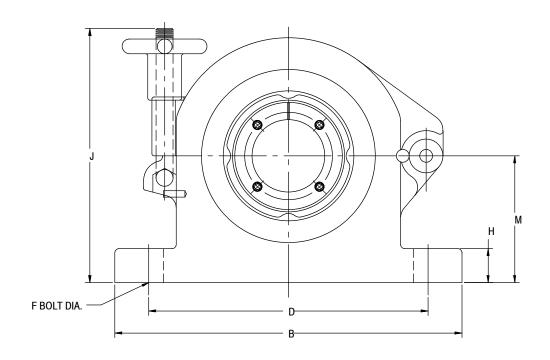
§ +.000 - .004"

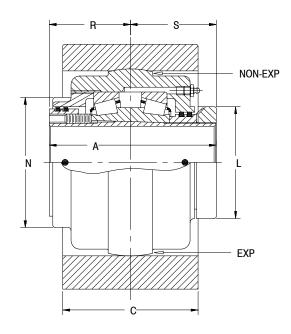
SELECTION/DIMENSIONSSELECTION/DIMENSIONSSELECTION/DIMENSIONSSELECTION/DIMENSIONSTYPE CHINGED CAPTRACTION WHEELALL STEELPAGE B6-8/B6-10PAGE B6-25/B6-44PAGE B6-47PAGE B6-51/B6-56





Special Duty Hinged Cap Pillow Block - Inch





NOMENCLATURE-Sp.Duty	HOW TO ORDER-Sp.Duty	EASY SELECTION-Sp.Duty	SELECTION-Sp.Duty
PAGE B6-24	PAGE B6-23	PAGE B6-28	PAGE B6-25







Special Duty Hinged Cap Pillow Blocks - Inch

	NON-EXPANSION*								
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)						
1-3/8	067054	P2B-HC-106	20						
1-7/16	067050	P2B-HC-107	20						
1-1/2	067056	P2B-HC-108	20						
1-11/16	067048	P2B-HC-111	27						
1-3/4	067042	P2B-HC-112	27						
1-15/16	067052	P2B-HC-115	36						
2	067056	P2B-HC-200	36						
2-3/16	067046	P2B-HC-203	47						
2-7/16	067044	P2B-HC-207	60						
2-15/16	067072	P2B-HC-215	60						

•	Furnished	Unless	Otherwise	Specified

[#] Consult DODGE For Sizes Not Listed.

SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
1-3/8 1-7/16 1-1/2	067055 067051 067057	P2B-HC-106E P2B-HC-107E P2B-HC-108E	20 20 20
1-11/16 1-3/4	067049 067043	P2B-HC-111E P2B-HC-112E	27 27
1-15/16 2	067053 067061	P2B-HC-115E P2B-HC-200E	36 36
2-3/16	067047	P2B-HC-203E	47
2-7/16	067045	P2B-HC-207E	60
2-15/16	067073	P2B-HC-215E	60

- # Consult DODGE For Sizes Not Listed.
- + Non-Stock -- Consult DODGE For Delivery

PILI	OW BLOCK HO	USING ASSEMBI	LIES
SHAFT SIZE RANGE SYMBOL#	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)
106 TO 108	067007*	HS2-HC-406	13
106 TO 108	067016	HS2-HC-406E	13
111 TO 112	067100*	HS2-HC-444	16
111 TO 112	067103	HS2-HC-444E	16
115 TO 200	067031*	HS2-HC-461	23
115 TO 200	067034	HS2-HC-461E	23
203	067120*	HS2-HC-536	26
203	067123	HS2-HC-536E	26
207	067135*	HS2-HC-569	40
207	067138	HS2-HC-569E	40
215	067078*	HS2-HC-656	52
215	067075	HS2-HC-656E	52

^{*} Furnished Unless Otherwise Specified

⁺ Non-Stock-- Consult DODGE For Delivery

SHAFT SIZE INCHES	Α	В	С	D	F DIA BOLT	н	J	L	М	N	R	s
1-3/8 1-7/16 1-1/2	4-1/8	7-1/4	3	5-7/8	1/2	3/4	6-7/8	2-7/16	2-7/8	3-1/4	1-15/16	2-3/16
1-11/16 1-3/4	4-1/4	8-1/4	3-1/4	6-7/8	1/2	3/4	6-7/8	2-13/16	3-1/8	3-17/32	2	2-1/4
1-15/16 2	4-7/16	9-1/4	3-1/2	7-11/16	5/8	7/8	7-5/8	3-1/16	3-1/4	3-13/16	2-1/8	2-5/16
2-3/16	4-3/4	10-1/4	4	8-1/4	3/4	1	7-5/8	3-7/16	3-3/4	4-7/32	2-1/4	2-1/2
2-7/16	5-5/16	10-1/4	4-1/4	8-1/4	3/4	1	9-5/8	3-13/16	4-1/2	4-5/8	2-9/16	2-3/4
2-15/16	6-1/16	11-1/8	4-3/4	9-1/8	3/4	1-1/4	10-1/8	4-7/16	5	5-1/4	2-15/16	3-1/8

SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	SPECIAL DUTY	TRACTION WHEEL	ALL STEEL
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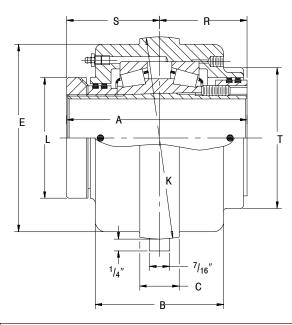
⁺ Non-Stock-- Consult DODGE For Delivery

[#] Consult DODGEFor Sizes Not Listed.





Special Duty Hinged Cap S-1 Units - Inch



HINGED CAP PILLOW BLOCK S-1 UNITS					
SHAFT SIZE #	PART NUMBER	PART NAME	WEIGHT LBS APPROX		
1-3/8 1-7/16 1-1/2	067149 067151 067152	S1U406-HC-106 S1U406-HC-107 S1U406-HC-108	8 8 8		
1-11/16 1-3/4	067153 067154	S1U444-HC-111 S1U444-HC-112	10 10		
1-15/16 2	067155 067156	S1U481-HC-115 S1U481-HC-200	11 11		
2-3/16	067157	S1U538-HC-203	16		
2-7/16	067159	S1U569-HC-207	19		
2-15/16	067164	S1U656-HC-215	30		

Consult DODGE For Sizes Not Listed.

HINGED CAP S-1 UNITS

SHAFT SIZE INCHES	Α	В	С	E	К	L	R	s	т
1-3/8 1-7/16 1-1/2	4-1/8	2-11/16	3/4	3-3/4	4-1/16	2-7/16	1-15/16	2-3/16	3-1/4
1-11/16 1-3/4	4-1/4	3-1/8	3/4	4-1/8	4-7/16	2-13/16	2	2-1/4	3-17/32
1-15/16 2	4-7/16	3-1/4	7/8	4-1/2	4-13/16	3-1/16	2-1/8	2-5/16	3-13/16
2-3/16	4-3/4	3-1/2	7/8	5-1/16	5-3/8	3-7/16	2-1/4	2-1/2	4-7/32
2-7/16	5-5/16	4	1	5-5/16	5-11/16	3-13/16	2-9/16	2-3/4	4-5/8
2-15/16	6-1/16	4-7/16	1	6-3/16	6-9/16	4-7/16	2-15/16	3-1/8	5-1/4

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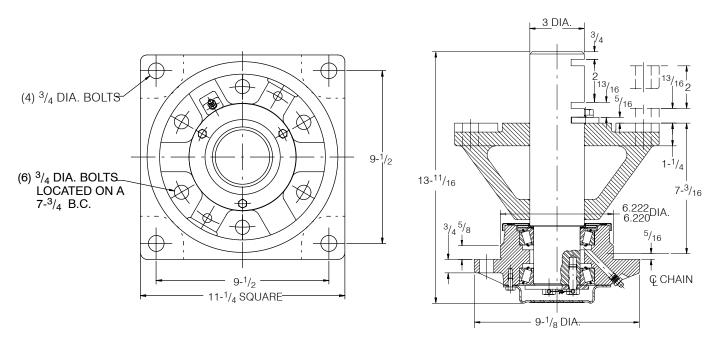






Special Duty Traction Wheel Hub Assemblies - Inch

SELECTION/DIMENSIONS



Traction Wheel Hub Assemblies are constructed to operate with wheels (sprockets) ranging from two to six feet in diameter. Commonly used in overhead chain conveyors, the units bolt directly to the supporting structure and can be adjusted vertically to three different operating positions.

The hub utilizes combination seals to protect the tapered roller bearings from dust and dirt and retain lubricant.

A high temperature (700°F) unit using sleeve bearings is available. See part number 062070.

	TRACTION WHEEL	. HUB ASSEMBLIES	S	Recommended for	0	perating Characte	eristics
SIZE #	PART NUMBER	PART NAME	WEIGHT LBS (APPROX)	Conveyors with Chain Nos.	RPM	Max. Resultant Load (lbs)▲	L ₁₀ Hours Life
#70	062040	TRW-70	100	348	10	3600	
#70LS*	422604+	TRW-70LS	80	458	10	8000	*
75HT	062070+	TRW-75HT	100	678	10	8000	

- Consult DODGE For Sizes Not Listed.
- Non-Stock Consult DODGE For Delivery
- Based on 180° Chain Wrap
- More Than 100,000 Hrs. Life
- (LS)Less Support Support For Mounting To Structure Not Included With This Part
- (HT) High Temperature Sleeve Bearing

SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS	SELECTION/DIMENSIONS
TYPE C	SPECIAL DUTY	HINGED CAP	ALL STEEL
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SPECIFICATION





All Steel

The standard housing material for All steel mounted bearings is cast steel having a minimum tensile strength of 70,000 psi. The housing is vertically split to enable servicing of the bearing internal components. All Steel pillow blocks are available in both expansion and non expansion types.

All Steel mounted bearings have duplex tapered roller mounted to the shaft with a tapered adaptor sleeve ex-

tending thru the complete length of the pillow block. The tapered roller bearings used in the All Steel mounted bearings all have case carburized inner races (cones), outer race (cup) and rollers.

All Steel mounted bearings have two piston ring seals running in grooves in the adapter nuts at each end of the pillow block to seal the bearings both on and off the shaft.







ALL STEEL CARTRIDGE UNITS AVAILABLE IN $2\ensuremath{^{-11}/_{16}}\xspace^{\prime\prime}$ TO $8\ensuremath{^{\prime\prime}}\xspace$

HOW TO ORDER





All Steel

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 B6–50 and add any special instructions to the end of the description for options not covered by the nomenclature.

SPECIAL BEARING REQUIREMENTS AND SPECIAL LUBRICANTS

DODGE All Steel Bearings are factory assembled and prelubricated. For applications where extreme ambient temperatures, high speeds or high loads are expected, a variety of specialty lubricants and adjustments are available. Standard grease provided is Shell Alvania #2. Other general purpose greases available include Chevron SRI, Exxon Unirex and Shell Alvania #2EP. Special service greases available include Mobiltemp 1, Aeroshell 7 and 17 and Shell Darina #2. High temperature greases available include Dow Corning Molykote 33, 44 and FS-1292, Moluballoy 896 HT and Mobilith SHC460. Special lubricant options usually involve setup charges and premiums. To order, specify type of lubricant required at the end of the product name or after the standard part number.

Example:

063360 except with Mobilith SHC 460 grease and or P4B-AS-215 except with Mobilith SHC 460 grease

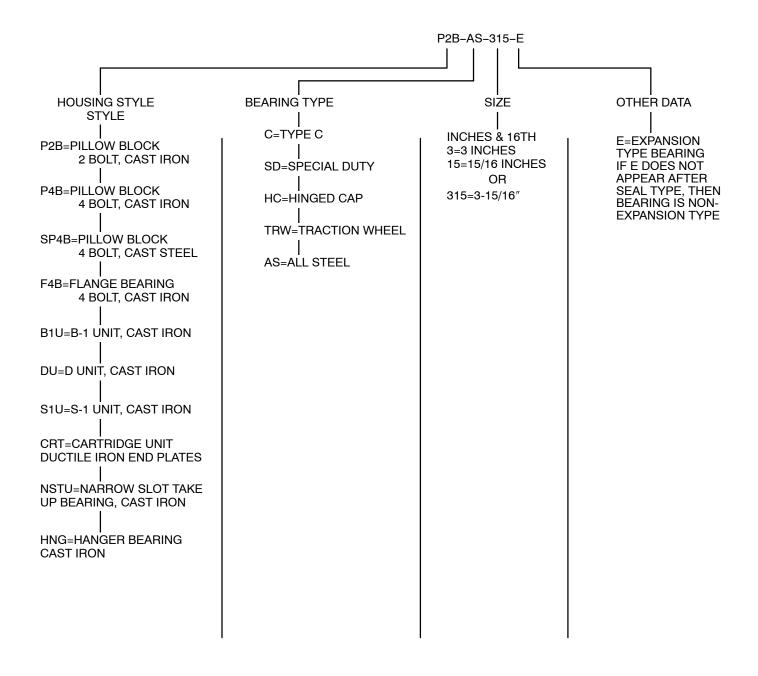
OTHER SPECIAL BEARING REQUIREMENTS NOT LISTED

For applications requiring modifications not listed, we encourage you to contact out Customer Order Engineering Department for Bearings at 864-297-4800.





Specialty Tapered Products



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All Steel

DODGE ALL-STEEL DOUBLE ROW TA-PERED ROLLER BEARINGS

DODGE All-Steel Double Row Tapered Roller Bearings have the capacity to carry heavy radial loads and combined radial and thrust loads. The maximum recommended load which can be applied is limited by various components in the system such as bearing, housing, shaft, shaft attachment, speed and life requirements as listed in this catalog. DODGE tapered roller bearings have been applied successfully even when these limits have been exceeded under controlled operating conditions. Contact DODGE Application Engineering (864) 297-4800 for applications which exceed the recommendations of this catalog.

L₁₀ Hours Life* — The life which may be expected from at least 90% of a given group of bearings operating under identical conditions.

$$L_{10} = \left(\frac{C_{90}}{P}\right)^{10/3} X \left(\frac{1,500,000}{RPM}\right)$$

Where

 $C_{\mbox{\tiny 90}}$ = Dynamic Capacity (Table 10, pg. B6-54), lbs.

P = Equivalent Radial Load, lbs.

GENERAL

Heavy Service — For heavy shock loads, frequent shock loads, or severe vibrations, add up to 50% (according to severity of conditions) to the Equivalent Radial Load. Consult DODGE Application Engineering for additional selection assistance.

Thrust load values shown in the table below are recommended as a guide for general applications that will give adequate L_{10} life for pillow blocks. The maximum thrust load should not exceed values shown on Table 12. Where substantial radial load is also present, it is advisable to calculate actual L_{10} life to assure that it meets the requirements. The effectiveness of the shaft attachment to carry thrust load depends on proper tightening, shaft tolerance (see table below) and shaft deflections. Therefore, it is advisable to use auxiliary thrust carrying devices such as shaft shoulder, snap ring or a thrust collar to locate the bearing under thrust loads heavier than shown below, or where extreme reliability is desired.

RPM RANGE	20-200	201-2000
RECOMMENDED THRUST LOAD	C ₉₀ /4	C ₉₀ /8

The shaft tolerances recommended below are adequate for normal radial and radial/thrust load applications. Since the allowable load, especially at a low speed, is very large, the shaft should be checked to assure adequate shaft strength.

The magnitude and direction of both the thrust and radial load must be taken into account when selecting a housing. When pillow blocks are utilized, heavy loads should be directed through the base. Where uplift loads are involved, see Table 15, pg.B6–55 for maximum values. Where a load pulls the housing away from the mounting base, both the hold-down bolts and housing must be of adequate strength. Auxiliary load carrying devices such as shear bars are advisable for side or end loading of pillow blocks and radial load for flange units.

SHAFT SIZE	TOLERANCE, INCHES
2-11/16 - 4	+.000 to004"
4-7/16 - 6	+.000 to005"
ABOVE 6	+.000 to006"

*L₁₀ Life Adjustment — The calculated L₁₀ Life obtained from this procedure is subject to life adjustment factors in accordance with ABMA standards described on page B14–45. Consult Application Engineering for assistance.

SELECTION/DIMENSIONS
TYPE C
PAGE B6-8/B6-10
SELECTION/DIMENSIONS
SPECIAL DUTY
PAGE B6-25/B6-32





All Steel

SELECTING BEARINGS SUPPORTING RADIAL LOADS ONLY

- 1. Define L₁₀ Life Hours desired.
- Establish bearing radial load, F_R
 (F_R = P for Pure Radial Load Conditions).
 The DODGE program BEST^{™*} can be used to find application loads.
- 3. Establish RPM.

Using the easy selection Table 11, pg.B6–54 find, under the RPM column, the equivalent radial load that equals or is higher than the application radial load for the desired life. The shaft size on the far left will be the minimum shaft size that you can use for your application. If the desired life is different than the values shown on the chart, use alternate Method A shown below.

Example:

- 1. L10 Life = 30,000 Hours
- 2. Radial load = 3800 lbs.
- 3. RPM = 1,000

At the intersection of the 1,000 RPM column and the 30,000 hours L_{10} life row, the equivalent radial load of 4475 lbs. Exceeds the 3800 lbs. Radial load for shaft sizes $2^{-11}/_{16}$ -3". A bearing with bore ranging from $2^{-11}/_{16}$ to 3" may be used for this application.

ALTERNATE METHOD A — SELECTING A BEARING FOR AN L10 LIFE VALUE NOT SHOWN IN THE EASY SELECTION CHART.

The L10 life equation can be rearranged so that the bearing dynamic capacity **C** is identified in terms of L10, RPM and P.

$$C_{90} = \left(\frac{L_{10} X RPM}{1,500,000}\right)^{0.3} X P$$

(P = F_R for Pure Radial Load Conditions)

Since the L_{10} , RPM, and P are known, solve for C_{90} . Select from the dynamic capacity column on Table 10, pg.B6–53 the C_{90} value equal to or greater than the C_{90} value just calculated. The bore size on the far left represents the bore size selection. Check that the application RPM does not exceed the MAX. RPM on Table 10. When selecting an L_{10} life of less than 30,000 hours, particular attention must be paid to shaft deflection and proper lubricant selection.

SELECTING BEARINGS SUPPORTING COMBINATION RADIAL AND THRUST LOADS

When a bearing supports both a radial load and a thrust load, the loading on the two rows is shared unequally depending on the ratio of thrust to radial load. The use of the X (radial factor) and Y (thrust factor) from Table 10 converts the applied thrust load and radial loads to an equivalent radial load having the same effect on the life of the bearing as a radial load of this magnitude.

★The DODGE Bearing Evaluation and Selection Technique (BEST) is a menu driven computer program that calculates bearing loads, fatigue life and operating temperature for a two bearing shaft system based on user supplied input parameters. To order, call (864) 297-4800.

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SPECIFICATIONS-All Steel PAGE B6-48 ENGINEER/TECH-All Steel PAGE B6-55





All Steel

The equivalent radial load $P = XF_B + YF_A$

Where:

P = Equivalent radial load, lbs.

F_R = Radial load, lbs.(see Table 10 for allowable slip fit maximum)

 F_A = Thrust (axial) load, lbs.

e = Thrust load to radial load factor (Table 10)

X = Radial load factor (Table 10)

Y = Thrust load factor (Table 10)

To find X and Y, calculate F_A/F_R and compare to ${\bf e}$ for the selected bore size. Determine X and Y from Table 10. depending on whether F_A/F_R is equal to or less than ${\bf e}$, or F_A/F_R is greater than ${\bf e}$. Substitute all known values into the equivalent radial load equation. P (equivalent radial load) can be used in the life formula to determine L_{10} , or it can be compared to the allowable equivalent radial load ratings for the speed and hours life desired in the easy selection Table 11, pg.B6–54.

SELECTING BEARINGS SUPPORTING ONLY THRUST LOADS

Tapered Roller Bearings perform extremely well under pure thrust load applications. Use $P = YF_A$ for the equivalent radial load. The value of Y is obtained from Table 10, pg.B6–54 for $F_A/F_R>e$. Substitute Y and F_A into the equivalent load equation. P (equivalent radial load) can be used in the life formula to determine L_{10} or it can be compared to the allowable equivalent radial load ratings for the speed and hours life desired in the easy selection Table 11, pg.B6–54.

LUBRICATION

DODGE All Steel Double Row Tapered roller bearings are lubricated at the factory with Mobil Mobilux #2. Mobil Mobilux #2 grease is superior industrial grease using a lithium hydroxystearate thickener and highly refined base oil. This grease will adequately handle low and medium speeds with low and medium loads at normal temperatures as defined on Table 14, pg.B6-55. For very low and high speeds, for heavy loads and for low and high temperatures, special greases must be used. Contact DODGE Application Engineering (864) 297-4800. DODGE engineers will recommend bearings and lubricants for the above unusual conditions. DODGE also has the expertise to custom design and build special bearings for your needs. The only maintenance requirement for DODGE Tapered roller bearings is periodic relubrication at regular intervals as outlined in the appropriate instruction manuals.

INSTALLATION AND MAINTENANCE

In nearly all applications good design practice requires two bearings supporting the shaft. In cases where three or more bearings are installed, unless precautions are taken to line the bearings up, both vertically and horizontally, it is possible to induce heavy loads. In the case of two bearings, alignment is not as critical, especially with DODGE All Steel Double Row Tapered Roller Bearings. All Steel bearings are designed to allow as much as 1° to 2° of static misalignment depending on bore size. To ensure good alignment, mounting surfaces must be checked for flatness and must lie in the same plane. When tightening base bolts and cap bolts, each bolt should be alternately tightened in incremental torque values until full torque is achieved. Shimming may be required to minimize misalignment.

TABLE 10 – ALL STEEL DOUBLE ROW TAPERED ROLLER BEARINGS RADIAL AND THRUST FACTORS

SHAFT		F _A /F	R≤e	F _A /F	= _{R>} e	DYNAMIC CAPACITY Co		MAXIMUM
SIZE	е	х	Y	х	Υ	LBS.	NEWTONS	RPM
2-11/16 - 3	.43	.87	2.02	.70	2.44	11,000	48,945	1,880
3-1/4 - 3-1/2	.49	.87	1.77	.70	2.14	21,000	93,441	1,520
3-15/16 - 4	.34	.87	2.53	.70	3.06	23,000	102,340	1,340
4-7/16 - 4-1/2	.36	.87	2.45	.70	2.96	34,500	153,510	1,210
4-15/16 - 5	.34	.87	2.53	.70	3.06	35,400	157,515	1,070
5-7/16	.33	.87	2.64	.70	3.18	44,500	198,006	960
5-15/16 - 6	.33	.87	2.64	.70	3.18	52,800	234,937	960
6-7/16 - 7	.34	.87	2.53	.70	3.06	59,700	265,639	810
7-1/2 - 8	.34	.87	2.55	.70	3.08	79,200	352,406	700

COMPARING SPHERICAL TO TAPER ROLLER BEARING

The dynamic capacity C (spherical) and C_{90} (taper) are not to the same base. To compare basic dynamic capacities, multiply C x .259 and compare to C_{90} . To select and then compare, use the complete* selection

procedure for each type of bearing and then compare.

 $^{*}\mathrm{C}_{90}$ — Dynamic capacity based on a rated life of 90 million revolutions or 3000 hours at 500 RPM.

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All Steel

TABLE 11 – EASY SELECTION TABLE DODGE ALL-STEEL DOUBLE ROW TAPERED ROLLER BEARINGS

Shaft	Hours		Allowab	le Equivalent	Radial Load	Rating (Lbs.)	at Various	Revolutions	Per Minute *	
Size	Life	50	100	250	500	750	1000	1250	1500	1750
	5,000	18830	15295	11620	9435	8355	7665	7170	6785	6480
2-11/16	10,000	15295	12420	9435	7665	6785	6225	5825	5515	5265
2-15/16	30,000	11000	8935	6785	5515	4880	4475	4190	3965	3785
3	50,000	9435	7665	5825	4730	4190	3840	3590	3400	3250
	100,000	7665	6225	4730	3840	3400	3120	2920	2765	2640
	5,000	35945	29200	22180	18015	15950	14635	13685	12955	
3-1/4	10,000	29200	23715	18015	14635	12955	11885	11115	10525	
3-7/16	30,000	21000	17055	12955	10525	9320	8550	7995	7570	
3-1/2	50,000	18015	14635	11115	9030	7995	7335	6860	6495	
	100,000	14635	11885	9030	7335	6495	5955	5570	5275	
	5,000	39370	31980	24295	19730	17470	16025	14990		
0.45/40	10,000	31980	25975	19730	16025	14190	13020	12175		
3-15/16 4	30,000	23000	18680	14190	11525	10205	9365	8755		
7	50,000	19730	16025	12175	9890	8755	8030	7510		
	100,000	16025	13020	9890	8030	7110	6525	6100		
	5,000	59055	47970	36440	29600	26210	24040	22485		
4 7/40	10,000	47970	38960	29600	24040	21285	19525	18265		
4-7/16 4-1/2	30,000	34500	28020	21285	17290	15310	14045	13135		
- 1/ <i>L</i>	50,000	29600	24040	18265	14835	13135	12050	11270		
	100,000	24040	19525	14835	12050	10670	9785	9155		
	5,000	60595	49220	37390	30370	26890	24670			
4 1E/16	10,000	49220	39980	30370	24670	21840	20035			
4-15/16 5	30,000	35400	28755	21840	17740	15710	14410			
•	50,000	30370	24670	18740	15220	13475	12365			
	100,000	24670	20035	15220	12365	10945	10040			
	5,000	76175	61870	47000	38175	33805	31010			
	10,000	61870	50255	38175	31010	27460	25185			
5-7/16	30,000	44500	36145	27460	22300	19750	18115			
	50,000	38175	31010	23555	19135	16940	15540			
	100,000	31010	25185	19135	15540	13760	12625			
	5,000	90380	73410	55770	45300	40110	36795			
5-15/16	10,000	73410	59630	45300	36795	32580	29885			
6	30,000	52800	42885	32580	26460	23430	21495			
	50,000	45300	36795	27950	22700	20100	18440			
	100,000	36795	29885	22700	18440	16330	14980			
6-7/16	5,000	102190	83005	63055	51215	45350				
6-7/16	10,000	83005	67420	51215	41600	36835				
6-15/16	30,000	59700 51215	48490	36835	29920 25670	26495				
7	50,000 100,000	51215 41600	41600 33790	31605 25670	20850	22730 18460				
	,							-		
	5,000	135570	110120 89445	83650	64945	60165 48870				
7-1/2 7-15/16	10,000 30,000	110120 79200	64330	67945 48870	55190 39695	48870 35145				
8	50,000	79200 67945	55190	41925	34055	30155				
U				41363	UTUJJ	00100				

NOTE: See Table 10 on previous page for maximum RPM.

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l .			





All Steel

TABLE 12 - ALL-STEEL PILLOW BLOCK HOUSING PERMISSIBLE THRUST LOAD, I BS

LDO.				
BORE SIZE, INCHES	MAX. THRUST (LBS.)			
2-11/16 - 3	9300			
3-1/4 - 3-1/2	13800			
3-15/16 - 4	13300			
4-7/16 - 4-1/2	10400			
4-15/16 - 5	14000			
5-7/16	14000			
5-15/16 - 6	18000			
6-7/16 - 7	23000			
7-1/2 - 8	32000			

TABLE 13 - ALL STEEL PILLOW BLOCK AND CARTRIDGE TOTAL EXPANSION CAPABILITY

BORE SIZE, INCHES	EXPANSION (INCHES)
2-11/16 - 3	3/8
3-1/4 - 3-1/2	3/8
3-15/16 - 4	3/8
4-7/16 - 4-1/2	3/8
4-15/16 - 5	25/64
5-7/16	25/64
5-15/16 - 6	13/32
6-7/16 - 7	13/32
7-1/2 - 8	3/8

TABLE 14 – DEFINITION OF OPERATING CONDITIONS FOR TAPERED ROLLER BEARINGS

LOW SPEED	UP TO 20% OF MAX. RPM (TABLE 10)
MEDIUM SPEED	OVER 20% TO 80% OF MAX. RPM
HIGH SPEED	OVER 80% OF MAX. RPM
LIGHT LOAD	UP TO 30% OF C ₉₀ (TABLE 10)
NORMAL LOAD	OVER 30% TO 70% OF C ₉₀
HEAVY LOAD	OVER 70% OF C ₉₀
LOW TEMPERATURE	-100°F TO 20°F
MEDIUM TEMPERATURE	OVER 20°F TO 200°F
HIGH TEMPERATURE	OVER 200°F TO 300°F
VERY HIGH TEMPERATURE	OVER 300°F TO 450°F

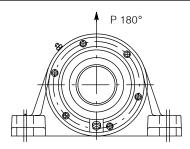


TABLE 15 - HOUSING RATINGS ALL-STEEL PILLOW BLOCK

SHAFT SIZE, (INCHES)	HOUSING STRENGTH,LBS.
SIZE, (INCHES)	180°
2-11/16 - 3	30,000
3-1/4 - 3-1/2	32,000
3-15/16 - 4	34,000
4-7/16 - 4-1/2	39,000
4-15/16 - 5	39,000
5-7/16	39,600
5-15/16 - 6	57,500
6-7/16 - 7	57,500
7-1/8 - 8	69,000

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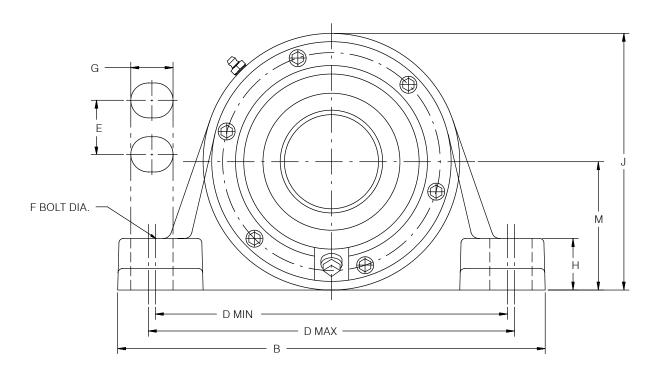


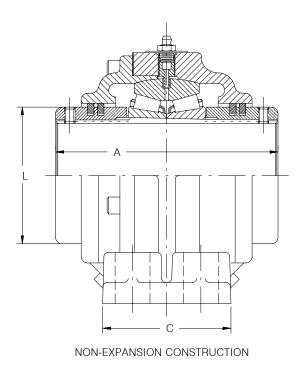


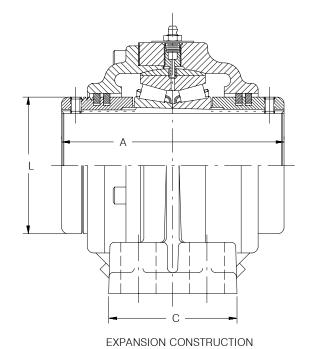
All Steel Pillow Block - Inch

SELECTION/DIMENSIONS

4-BOLT BASE







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All Steel Pillow Block - Inch

4-BOLT BASE

CAST STEEL NON-EXPANSION*						
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS APPROX			
2-11/16	063359+	SP4B-AS-211	45			
2-15/16	063360	SP4B-AS-215	42			
3	063361	SP4B-AS-300	41			
3-7/16	063362	SP4B-AS-307	77			
3-1/2	063363+	SP4B-AS-308	77			
3-15/16	063364	SP4B-AS-315	95			
4	063365	SP4B-AS-400	93			
4-7/16	063366	SP4B-AS-407	149			
4-15/16	063368	SP4B-AS-415	190			
5	063369+	SP4B-AS-500	180			

- Furnished Unless Otherwise Specified
- # Consult DODGE For Sizes Not Listed.
- + Non-Stock Consult DODGE For Delivery

CAST STEEL EXPANSION							
SHAFT SIZE INCHES #	PART NAME	PART NUMBER	WEIGHT LBS APPROX				
2-11/16	SP4B-AS-211E	063389+	45				
2-15/16	SP4B-AS-215E	063390	42				
3	SP4B-AS-300E	063411	41				
3-7/16	SP4B-AS-307E	063392	77				
3-1/2	SP4B-AS-308E	063393	77				
3-15/16	SP4B-AS-315E	063394	95				
4	SP4B-AS-400E	063395	93				
4-7/16	SP4B-AS-407E	063396	149				
4-15/16	SP4B-AS-415E	063398	190				
5	SP4B-AS-500E	063399+	180				

- # Consult DODGE For Sizes Not Listed.
- + Non-Stock Consult DODGE For Delivery

SHAFT		_		D		_	F BOLT						EXP*
INCHES	Α	В	С	MIN.	MAX.	E BOLT DIA.	G	Н	J	L	M		
2-11/16 2-15/16 3	6-1/2	12-1/2	3-3/4	10-5/16	10-11/16	2	5/8	15/16	1-5/8	7-1/2	4	3-3/4	3/8
3-7/16 3-1/2	7-3/4	14-1/2	4-1/2	11-7/8	12-5/8	2-3/8	3/4	1-1/8	1-7/8	9	4-11/16	4-1/2	3/8
3-15/16 4	8	15-3/4	4-3/4	13-1/8	13-7/8	2-3/4	3/4	1-1/8	2	9-3/4	5-7/16	4-15/16	3/8
4-7/16	9-3/4	18-1/4	5-1/4	14-13/16	15-11/16	3-1/4	7/8	1-5/16	2-1/4	11-3/8	6-1/16	5-3/4	3/8
4-15/16 5	9-3/4	19-1/2	5-7/8	16	17	3-3/8	1	1-1/2	2-1/2	12	6-13/16	6	25/64
5-7/16	10-1/2	21-1/4	6-1/4	17-3/4	18-3/4	3-3/4	1	1-1/2	2-3/4	13-1/4	7-1/2	6-5/8	13/32
5-15/16 6	11-1/4	23-1/2	6-3/4	20-1/16	20-15/16	4-1/4	1-1/8	1-9/16	3	13-3/4	8	7	13/32
7	12-1/4	26-1/2	7-1/2	22-3/8	23-5/8	4-1/2	1-1/4	1-7/8	3-1/4	15-3/8	9-1/2	7-3/4	13/32
7-1/2	13-1/2	30-1/2	8-3/4	25-1/2	27	5-1/4	1-1/2	2-1/4	4	18-3/4	10-3/4	9-1/2	5/8

^{*} Total Expansion Divided Equally On Both Sides Of Bearing (Expansion Bearing Only)

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TYPE C	
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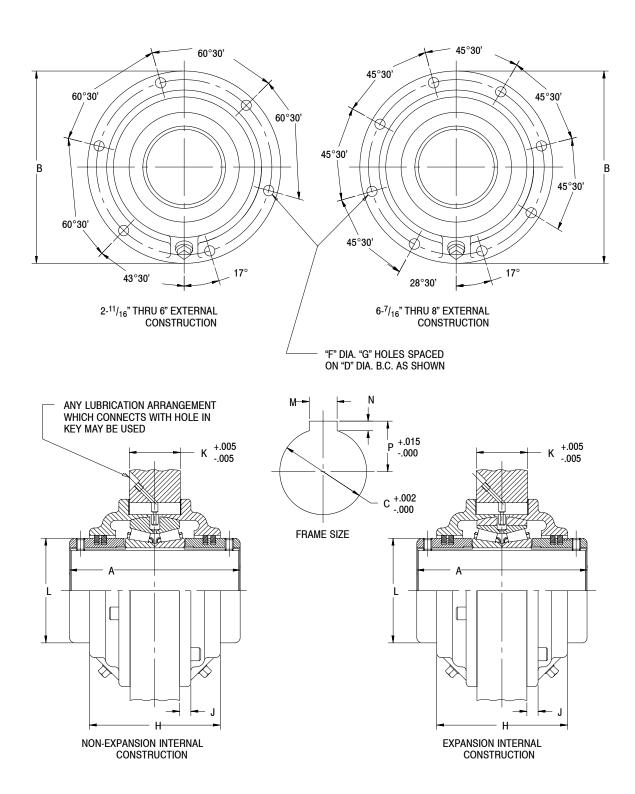
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All Steel Cartridge Units - Inch



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All Steel Cartridge Units - Inch

CAST STEEL NON-EXPANSION*									
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS APPROX						
2-11/16	063420+	CRT-AS-211	30						
2-15/16	063421	CRT-AS-215	30						
3	063422+	CRT-AS-300	30						
3-7/16	063424	CRT-AS-307	55						
3-15/16	063426	CRT-AS-315	65						
4-7/16	063429	CRT-AS-407	110						

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•	Furnished	uniess	Omerwise	Specified

[#] Consult DODGE For Sizes Not Listed.

CAST STEEL EXPANSION										
SHAFT SIZE INCHES #	PART NUMBER	PART NAME	WEIGHT LBS APPROX							
2-11/16	063450+	CRT-AS-211E	30							
2-15/16	063451+	CRT-AS-215E	30							
3	063452+	CRT-AS-300E	30							
3-7/16	063454+	CRT-AS-307E	55							
3-15/16	063456+	CRT-AS-315E	65							
4-7/16	063459+	CRT-AS-407E	110							

[#] Consult DODGE For Sizes Not Listed.

⁺ Non-Stock — Consult DODGE For Delivery

SHAFT SIZE INCHES	A	В	С	D	F BOLT DIA.	G	н	J	к	L	М	N	Р	EXP*
2-11/16 2-15/16 3	6-1/2	7-1/8	5.697	6-3/8	3/8	6	4-7/8	3/8	2-3/16	4	1	5/8	3.429	0/0
3-7/16	7-3/4	8-3/4	7.197	7-7/8	7/16	6	6-1/32	7/16	2-3/4	4-11/16	1	5/8	4.189	3/8
3-15/16	8	9-1/2	7.885	8-5/8	7/16	6	5-31/32	7/16	3-1/8	5-7/16	1	5/8	4.536	
4-7/16	9-1/4	10-15/16	9.072	9-7/8	1/2	6	7	1/2	3-1/2	6-1/16	1	5/8	5.133	
5-7/16	10-1/2	12-7/8	10.947	12	1/2	6	7-13/16	5/8	4-1/4	7-1/2	1-1/2	3/4	6.172	25/64
5-15/16 6	11-1/4	13-1/2	11.291	12-7/16	5/8	6	8-1/2	5/8	4-7/8	8	1-1/2	3/4	6.346	13/32
7	12-1/4	15	12.885	13-15/16	5/8	8	9-1/8	5/8	5-1/4	9-1/2	1-1/2	3/4	7.149	

 ^{*} Total Expansion Divided Equally On Both Sides Of Bearing (Expansion Bearing Only)

⁺ Non-Stock — Consult DODGE For Delivery



