



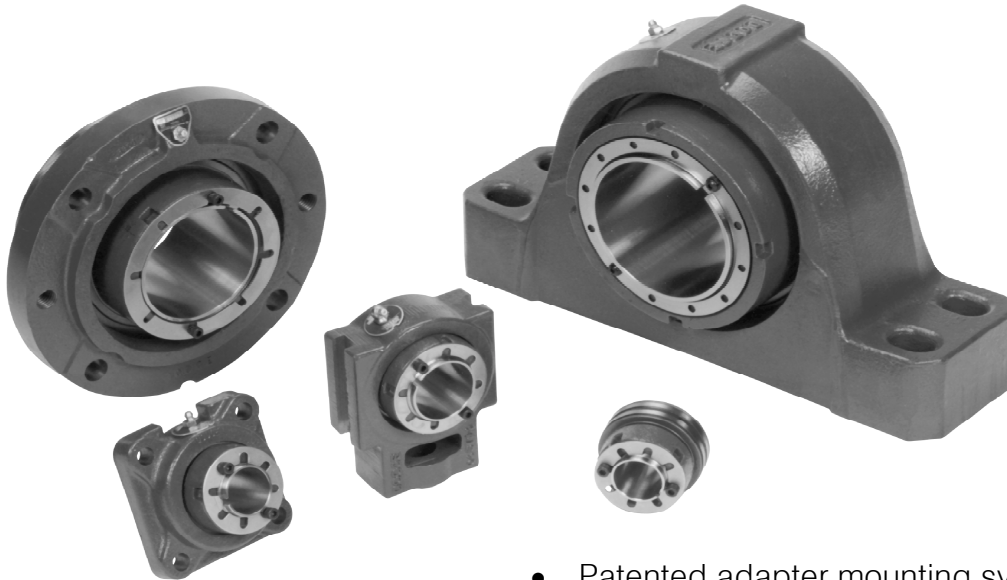
CONTENTS

IMPERIAL™

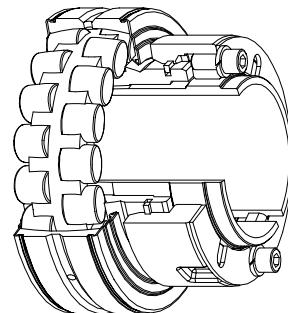
- Features / Benefits B8-2
- Nomenclature B8-3
- Selection B8-6
- Selection/Dimensions B8-14
 - IP Pillow Blocks – 2-Bolt B8-14
 - IP Pillow Blocks – 4-Bolt B8-16
 - ISAF Pillow Blocks – 2-Bolt and 4-Bolt B8-18
 - Flanges – 4-Bolt B8-20
 - Piloted Flange B8-22
 - Take-Up Bearing B8-24
 - Bearing Insert B8-26
 - Impact Spanner Wrench B8-28
 - IMPERIAL Lockplate Kit B8-28
- Part Number Index INDEX-1
- Keyword Index INDEX-28

FEATURES/BENEFITS

IMPERIAL-IP



- Operating temperatures are 25% lower than setscrew mounted products
- Grease limiting speeds 30% higher than setscrew mounts
- Same rolling element as the S-2000 bearing
- Pillow blocks are interchangeable with S2000 dimensions on most sizes
- 2 bolt pillow blocks are ductile iron, all other styles are gray iron
- Ductile iron 2 bolt pillow block housing with 65,000 PSI tensile strength is 92% the strength of steel
- 2 bolt pillow blocks, 4 bolt flange bearings piloted flange and take-ups 1-7/16" to 3-15/16"
4 bolt pillow blocks in sizes 2-7/16" to 4-15/16"
- Jackscrew holes standard on piloted flanges
- Can replace 300 series ball bearings in many applications
- Patented adapter mounting system
- Superior holding power reduces the fretting corrosion caused by vibration
- Shaft ready installation
- No special tools required for installation
- DODGE "R" seal provides superior sealing system
- Full 2° misalignment capability
- Sphered seal land on OD of inner ring maintains full contact pressure even when misaligned
- Less shaft damage vs. setscrew mounts
- Reduced vibration damage vs. setscrew mounts

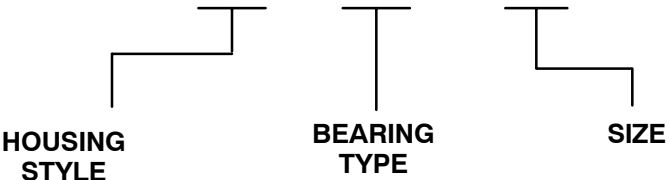




NOMENCLATURE

IMPERIAL-IP

P2B - IP - 207

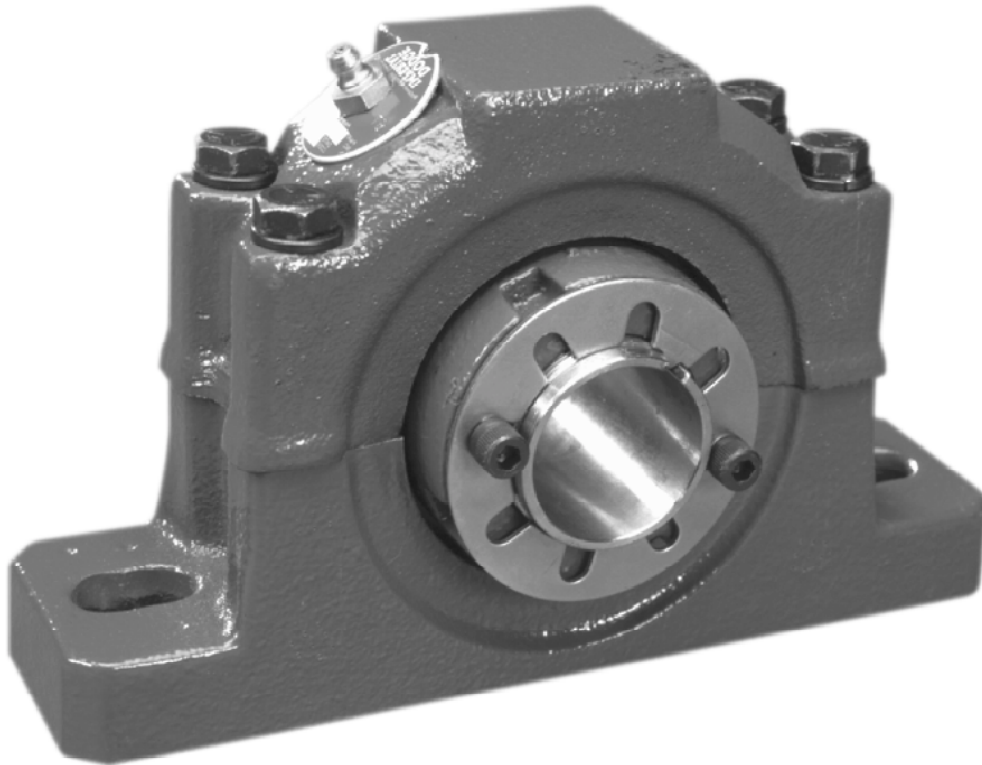


HOUSING STYLE	BEARING TYPE	SIZE
P2B = Pillow Block 2 Bolt Base, Ductile Iron	IP = IMPERIAL	Inches and 16ths 2 = 2" and 07 = 7/16" or 207 = 2 7/16"
P4B = Pillow Block 4 Bolt Base, Cast Iron		
F4B = Flange Bearing 4 Bolt Base, Cast Iron		
FC = Piloted Flange (Flange Cartridge)		
WSTU = Wide Slot Take-Up Bearing for Use In Center-Pull Frames		

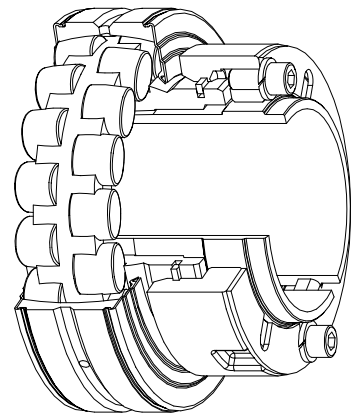
FEATURES/BENEFITS PAGE B8-2	SELECTION PAGE B8-6	SELECTION/DIMENSIONS PAGE B8-14	
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FEATURES/BENEFITS

ISAF



- Interchangeable with SAF style pillow blocks.
- Patented adapter mounting system.
- Easy installation - no feeler gauges needed.
- Easy removal - no torches, sledge hammers or special tools needed.
- DODGE "R" seal provides superior sealing system.
- Full 2° misalignment capability.
- Sphered seal land on OD of inner ring maintains full contact pressure even when misaligned.
- High capacity double row spherical bearing.
- 2 bolt pillow blocks in sizes 1-7/16" to 1-15/16"
- 4 bolt pillow blocks in sizes 2-7/16" to 4-15/16"





NOMENCLATURE

ISAF

P2B 515 - ISAF - 207 E



P2B = Pillow Block
2 Bolt Base,
Cast Iron

P4B = Pillow Block
4 Bolt Base,
Cast Iron

5xx for inter-changeable SAF style housings

ISAF = IMPERIAL SAF

Inches and 16ths
2 = 2" and 07 = 7/16"
or 207 = 2 7/16"

E = EXPANSION
If E does not appear,
bearing is a non-expansion type

FEATURES/BENEFITS PAGE B8-2	SELECTION PAGE B8-6	SELECTION/DIMENSION PAGE B8-14	
--------------------------------	------------------------	-----------------------------------	--



SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

DODGE Unitized Spherical 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 spherical 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.

$$L_{10} \text{ Life, Hours} = \left(\frac{C}{P}\right)^{10/3} \times \left(\frac{16667}{\text{RPM}}\right)$$

Where:

C = Dynamic Capacity (Table 1 for IMPERIAL), 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 to obtain a Modified 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 L₁₀ life. Spherical bearings require a radial load at least equal to the thrust load for proper operation. If the thrust load exceeds this limit, consult Application Engineering. Where substantial radial load is also present, it is advisable to calculate actual L₁₀ life to assure that it

meets the requirements. The effectiveness of the shaft attachment to carry thrust load depends on proper tightening of the bearing to the shaft. 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/20	C/40	C/60

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 cap loads are involved, see Tables 3 – 5 on pages B8-11 – B8-13 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 loads for flange units.

SHAFT TOLERANCES

SHAFT SIZE	IMPERIAL TOLERANCE, IN.
UP TO 1-1/2"	+.0000 –.002"
1-9/16 TO 2-1/2"	+.0000 –.003"
2-5/8 TO 4"	+.0000 –.004"
4-3/16 to 5"	+.0000 – .005"

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION/DIMENSION PAGE B8-14	
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SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

BEARINGS SUPPORTING RADIAL LOADS ONLY

1. Define L_{10} Life Hours desired.
2. 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 2, page B8-10 for IMPERIAL, find, under the RPM column, the equivalent radial load that equals or is slightly 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. L_{10} Life = 30,000 Hours
 2. Radial load = 4000 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 4011 lbs. exceeds the 4000 lbs. radial load for shaft sizes $2\frac{3}{8}$ - $2\frac{7}{16}$ ". A bearing with bore ranging from $2\frac{3}{8}$ " to $2\frac{7}{16}$ " 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 C is identified in terms of L_{10} , RPM and P

$$C = \left(\frac{L_{10} \times \text{RPM}}{16667} \right)^{0.3} \times P$$

($P = F_R$ for Pure Radial Load Conditions)

Since the L_{10} , RPM and P are known, solve for C . Select from the dynamic capacity column on Table 1, page B8-9 the C value equal to or greater than the C value just calculated. The bore size on the far left represents the proper bore size selection. Check that the application RPM does not exceed the MAX. RPM on Table 1*. 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 1* 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.

$$\text{The equivalent radial load } P = XF_R + YF_A$$

Where:

- P = Equivalent radial load, lbs.
- F_R = Radial load, lbs. (see Table 1 for allowable slip fit maximum)
- F_A = Thrust (axial) load, lbs.
- e = Thrust load to radial load factor (Table 1)*
- X = Radial load factor (Table 1)*
- Y = Thrust load factor (Table 1)*

* 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.

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION/DIMENSION PAGE B8-14	
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SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

To find X and Y, calculate F_A/F_R and compare to e for the selected bore size. Determine X and Y from Table 1, for IMPERIAL bearing depending on whether F_A/F_R is equal to or less than e , or F_A/F_R is greater than 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 2, page B8-10 for IMPERIAL bearing.

SELECTING BEARINGS SUPPORTING ONLY THRUST LOADS

Spherical Roller Bearings generally are not recommended for pure thrust load applications. However, they will perform satisfactorily under very light pure thrust loads. Consult DODGE Application Engineering (864-297-4800).

SELECTING LUBRICATION

DODGE IMPERIAL-IP and ISAF spherical roller bearings are lubricated at the factory with Shell Alvania #2 grease. Shell Alvania #2 grease is a 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. 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 Unitized roller bearings is periodic relubrication at regular intervals as outlined in the appropriate instruction manuals.

MISALIGNMENT CONSIDERATIONS

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 Unitized Spherical Roller Bearings. IMPERIAL-IP and ISAF bearings are designed to allow a maximum of $\pm 2^\circ$ of static and dynamic misalignment. However, for optimum seal performance, misalignment should be kept under $\pm 0.5^\circ$. To ensure good alignment, mounting surfaces must be checked for flatness and must lie in the same plane. When tightening base 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.

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION/DIMENSION PAGE B8-14	
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SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

TABLE 1 – RADIAL AND THRUST FACTORS FOR IMPERIAL-IP AND ISAF ADAPTER MOUNTED DOUBLE ROW SPHERICAL ROLLER BEARINGS

Shaft Size (in)	Bearing Series	e	Fa/Fr ≤ e		Fa/Fr > e		Adapter Maximum Thrust Load (lbs)	Dynamic Capacity, C (lbs)	Maximum RPM Grease	Maximum Expansion Capability IMPERIAL-IP P2B & F4B (in.)	Maximum Expansion Capability IMPERIAL-IP P4B, FC TU (in.)	Maximum Expansion Capability ISAF
			X	Y	X	Y						
			1-7/16	22208K	0.28	1						
1-11/16	22209K	0.26	1	2.6	0.67	3.9	700	20,800	3,650	5/32	1/4	-
1-15/16 2 SM	22210K	0.24	1	2.8	0.67	4.2	775	22,000	3,450	5/32	1/4	1/4
2 LG 2-3/16	22211K	0.23	1	2.9	0.67	4.4	930	27,000	2,950	5/32	1/4	-
2-3/8 2-7/16	22213K	0.24	1	2.8	0.67	4.2	1360	38,000	2,350	3/16	1/4	5/16
2-11/16 2-3/4 2-15/16	22215K	0.22	1	3.1	0.67	4.6	1570	41,500	2,200	3/16	1/4	7/32
3-7/16	22218K	0.23	1	2.9	0.67	4.3	2430	64,000	1,800	3/16	1/4	3/8
3-15/16	22220K	0.24	1	2.8	0.67	4.2	3100	80,000	1,500	7/32	5/16	3/8
4-7/16	22222K	0.25	1	2.7	0.67	4.0	3660	102,000	1,300	--	3/8	3/8
4-15/16	22226K	0.26	1	2.6	0.67	3.9	5250	143,000	1,150	--	3/8	3/8

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION/DIMENSION PAGE B8-14	
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SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

TABLE 2 – EASY SELECTION TABLE FOR IMPERIAL-IP AND ISAF ADAPTER MOUNTED DOUBLE ROW SPHERICAL ROLLER BEARINGS

Shaft Size (in.)	L10 Life (hours)	Allowable Equivalent Radial Load Rating (lbs.) at Various Revolutions per Minute												
		50	100	250	500	750	1000	1500	1800	2000	2200	2500	3000	3600
1-7/16	10000	7498	6090	4626	3758	3327	3052	2703	2559	2479	2409	2319	2195	2078
	30000	5393	4380	3327	2703	2393	2195	1944	1840	1783	1733	1668	1579	1495
	50000	4626	3758	2855	2319	2053	1883	1668	1579	1530	1487	1431	1355	1282
	70000	4182	3397	2581	2096	1856	1703	1508	1427	1383	1344	1293	1224	1159
	100000	3758	3052	2319	1883	1668	1530	1355	1282	1243	1208	1162	1100	1042
1-11/16	10000	7498	6090	4626	3758	3327	3052	2703	2559	2479	2409	2319	2195	
	30000	5393	4380	3327	2703	2393	2195	1944	1840	1783	1733	1668	1579	
	50000	4626	3758	2855	2319	2053	1883	1668	1579	1530	1487	1431	1355	
	70000	4182	3397	2581	2096	1856	1703	1508	1427	1383	1344	1293	1224	
	100000	3758	3052	2319	1883	1668	1530	1355	1282	1243	1208	1162	1100	
1-15/16 2 SM	10000	7930	6441	4893	3975	3519	3228	2859	2706	2622	2548	2452	2322	
	30000	5704	4633	3519	2859	2531	2322	2056	1947	1886	1833	1764	1670	
	50000	4893	3975	3019	2452	2172	1992	1764	1670	1618	1572	1513	1433	
	70000	4423	3593	2729	2217	1963	1801	1594	1510	1463	1421	1368	1295	
	100000	3975	3228	2452	1992	1764	1618	1433	1356	1314	1277	1229	1164	
2 LG 2-3/16	10000	9733	7905	6005	4878	4319	3962	3508	3322	3218	3127	3010		
	30000	7000	5686	4319	3508	3106	2850	2523	2389	2315	2249	2165		
	50000	6005	4878	3706	3010	2665	2445	2165	2050	1986	1930	1857		
	70000	5429	4410	3350	2721	2409	2210	1957	1853	1795	1744	1679		
	100000	4878	3962	3010	2445	2165	1986	1758	1665	1613	1567	1508		
2-3/8 2-7/16	10000	13698	11126	8452	6865	6079	5576	4938	4675	4529	4402			
	30000	9852	8002	6079	4938	4372	4011	3551	3362	3258	3166			
	50000	8452	6865	5215	4236	3751	3441	3047	2884	2795	2716			
	70000	7640	6206	4714	3829	3391	3110	2754	2608	2526	2455			
	100000	6865	5576	4236	3441	3047	2795	2475	2343	2270	2206			
2-11/16 2-3/4 2-15/16	10000	14959	12151	9230	7497	6639	6090	5392	5105	4946				
	30000	10759	8739	6639	5392	4775	4380	3878	3672	3558				
	50000	9230	7497	5696	4626	4096	3758	3327	3150	3052				
	70000	8344	6778	5149	4182	3703	3397	3008	2848	2759				
	100000	7497	6090	4626	3758	3327	3052	2703	2559	2479				
3-7/16	10000	23070	18739	14235	11562	10238	9392	8316	7873					
	30000	16592	13477	10238	8316	7363	6755	5981	5663					
	50000	14235	11562	8783	7134	6317	5795	5131	4858					
	70000	12868	10452	7940	6449	5711	5239	4639	4392					
	100000	11562	9392	7134	5795	5131	4707	4168	3946					
3-15/16	10000	28837	23423	17794	14453	12798	11739	10395						
	30000	20741	16847	12798	10395	9204	8443	7476						
	50000	17794	14453	10979	8918	7897	7244	6414						
	70000	16085	13065	9925	8062	7138	6548	5798						
	100000	14453	11739	8918	7244	6414	5884	5210						
4-7/16	10000	36765	29865	22685	18425	16315	14967							
	30000	26445	21480	16315	13255	11735	10765							
	50000	22686	18427	13998	11370	10068	9235							
	70000	20508	16658	12654	10278	9101	8348							
	100000	18427	14967	11370	9235	8177	7501							
4-15/16	10000	51545	41870	31805	25835	22875	20984							
	30000	37075	30115	22875	18580	16450	15092							
	50000	31806	25834	19625	15940	14115	12947							
	70000	28752	23354	17741	14410	12759	11704							
	100000	25834	20984	15940	12947	11465	10517							

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION/DIMENSION PAGE B8-14	
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SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

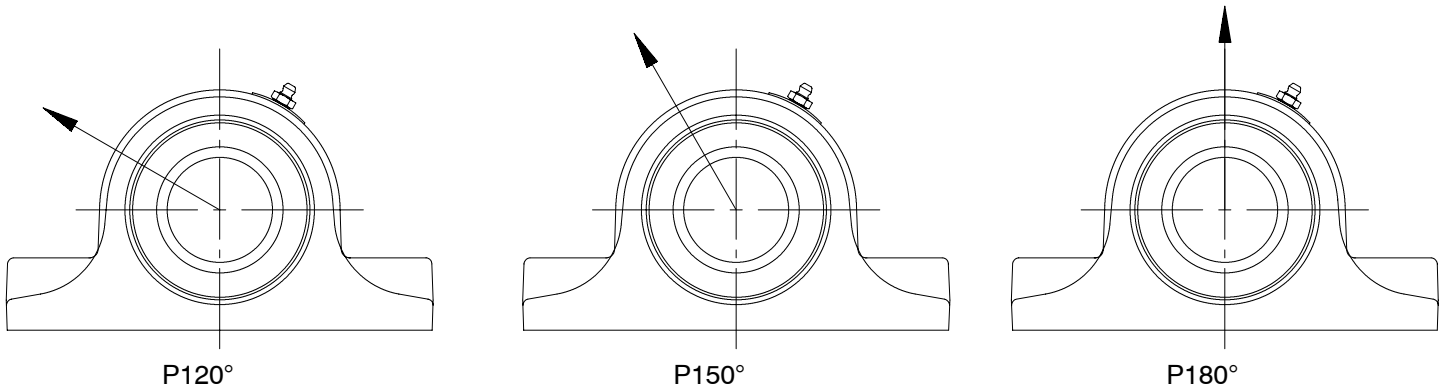


TABLE 3 – IMPERIAL-IP 2-BOLT PILLOW BLOCK HOUSING RATINGS*

Bore Size	Pillow Block Designation	Maximum Recommended Housing Cap Loads, lbf		
		P120°	P150°	P180°
1-1/8 to 1-1/2	P2B-IP-107	5500	6750	8000
1-5/8 to 1-3/4	P2B-IP-111	6800	8600	10000
1-7/8 to 2 SM	P2B-IP-115	8000	9900	11700
2 LG to 2-3/16	P2B-IP-203	10200	12500	14800
2-3/8 to 2-1/2	P2B-IP-207	10200	12400	14900
2-11/16 to 3	P2B-IP-215	12900	15900	18900
3-3/16 to 3-1/2	P2B-IP-307	11900	14600	17400
3-11/16 to 4	P2B-IP-315	16900	20800	24600

* When utilizing heavy cap loads on pillow block housings; the installation must adhere to the following procedures:

1. The pillow block base bolts must be of high strength (Grade 8) bolts and properly tightened to mounting structure.
2. Stop bars (shear strips) should be used against the plummer block where side loads are encountered.
3. In all cases where loads are heavy, the L_{10} life of the bearing should be checked for proper selection and life requirements.

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION/DIMENSION PAGE B8-14	
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SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

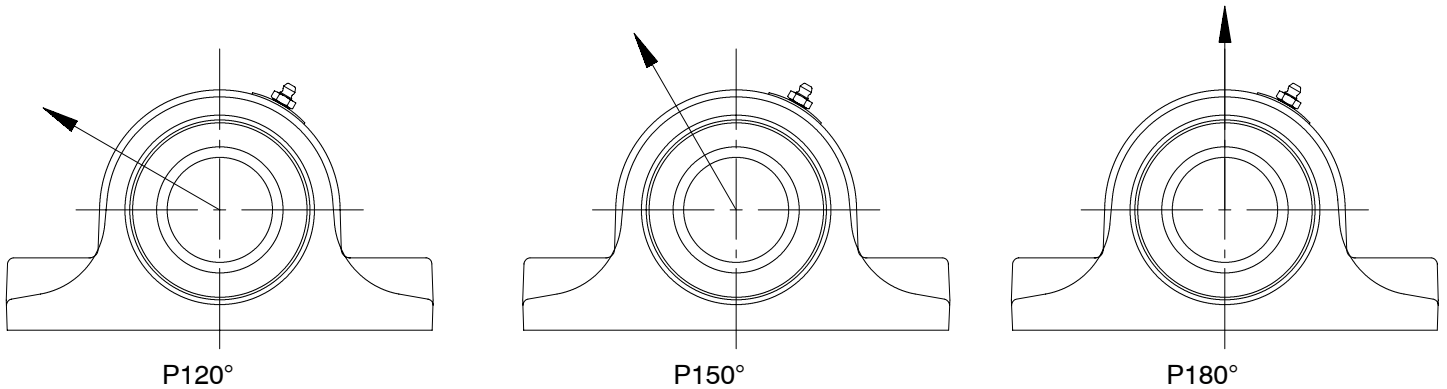


TABLE 4 – IMPERIAL-IP 4-BOLT PILLOW BLOCK HOUSING RATINGS*

Bore Size	Pillow Block Designation	Maximum Recommended Housing Cap Loads, lbf		
		P120°	P150°	P180°
2-3/8 to 2-1/2	P4B-IP-207	3810	4760	5600
2-11/16 to 3	P4B-IP-215	4620	5780	6800
3-3/16 to 3-1/2	P4B-IP-307	4700	5870	6900
3-11/16 to 4	P4B-IP-315	7500	9350	11000
4-7/16	P4B-IP-407	9900	12330	14500
4-15/16	P4B-IP-415	13400	16750	19700

* When utilizing heavy cap loads on pillow block housings; the installation must adhere to the following procedures:

1. The pillow block base bolts must be of high strength (Grade 8) bolts and properly tightened to mounting structure.
2. Stop bars (shear strips) should be used against the plummer block where side loads are encountered.
3. In all cases where loads are heavy, the L_{10} life of the bearing should be checked for proper selection and life requirements.

SELECTION

IMPERIAL-IP and ISAF Spherical Roller Bearings

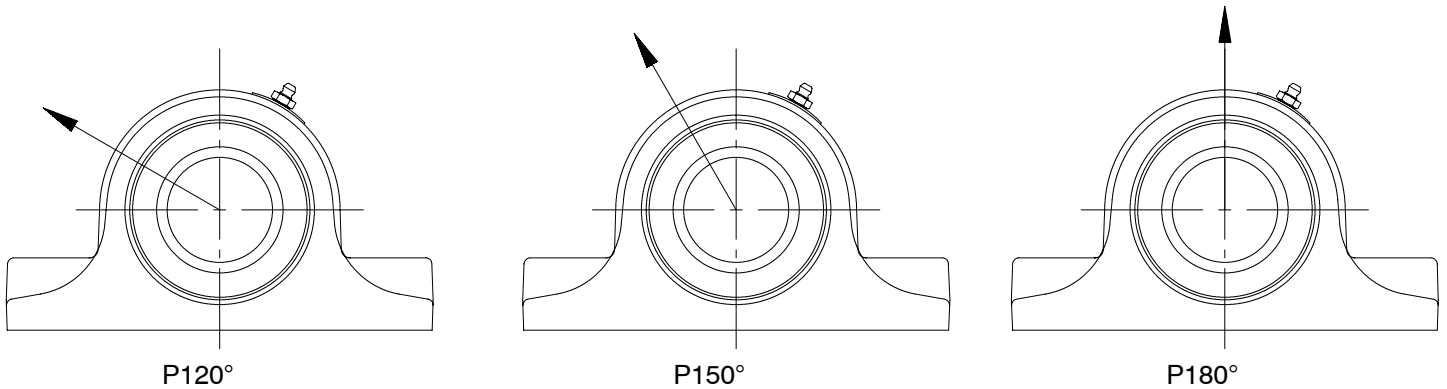


TABLE 5 – ISAF HOUSING RATINGS*

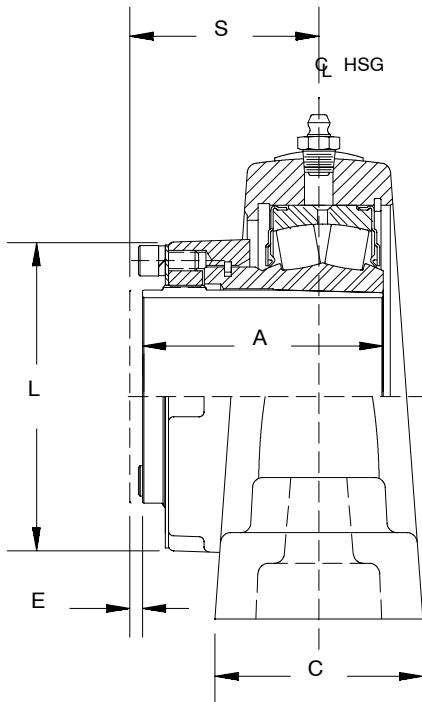
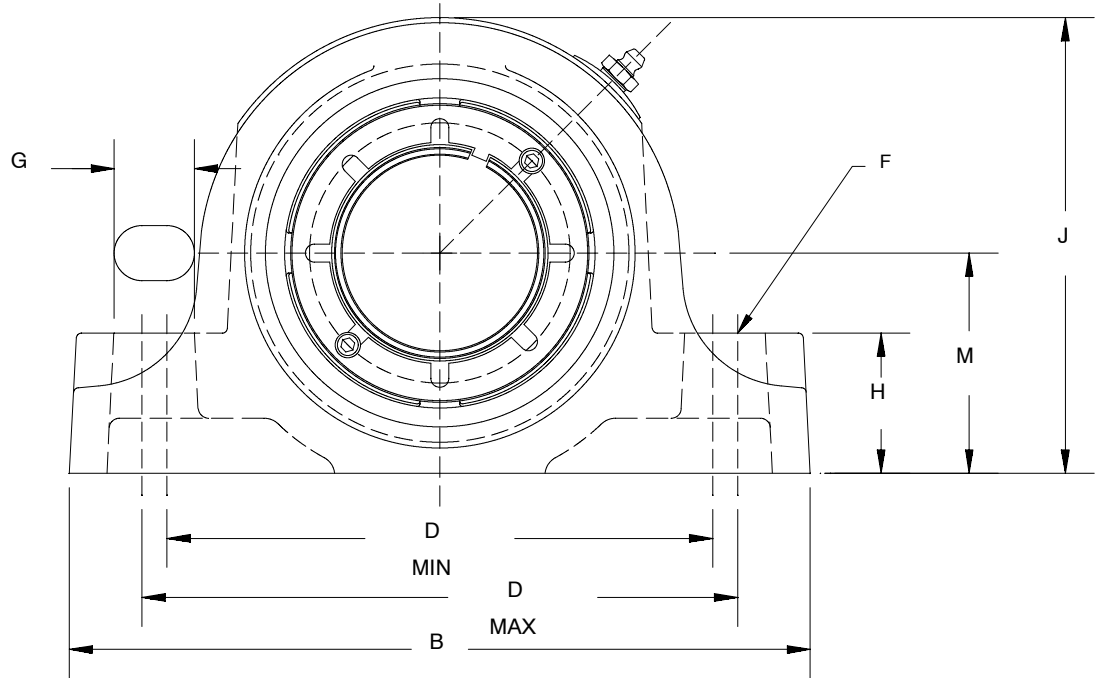
SHAFT SIZE (INCHES)	MAXIMUM RECOMMENDED HOUSING CAP LOADS, LBS
	180°
1-7/16	4,600
1-15/16	7,875
2-7/16	9,220
2-15/16	10,200
3-7/16	14,700
3-15/16	17,800
4-7/16	18,300
4-15/16	22,300

* When utilizing heavy cap loads on pillow block housings; the installation must adhere to the following procedures:

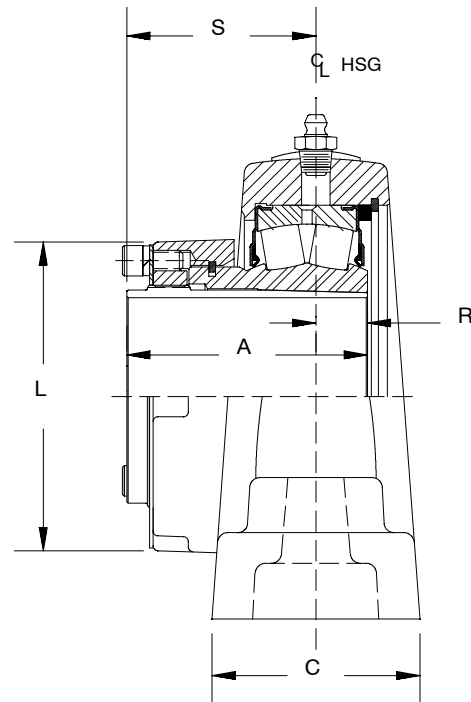
1. The pillow block base bolts must be of high strength (Grade 8) bolts and properly tightened to mounting structure.
2. Stop bars (shear strips) should be used against the plummer block where side loads are encountered.
3. In all cases where loads are heavy, the L_{10} life of the bearing should be checked for proper selection and life requirements.

SELECTION/DIMENSIONS

IMPERIAL-IP Pillow Block 2-BOLT



EXPANSION



NONEXPANSION

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

IMPERIAL-IP Pillow Block 2-BOLT

Shaft Size Inch	NON-EXPANSION*		EXPANSION		Approx. Wt./Lbs.
	Part No.	Part Name	Part No.	Part Name	
1-7/16	048230	P2B-IP-107	048242	P2B-IP-107E	5.4
1-11/16	048231	P2B-IP-111	048243	P2B-IP-111E	6.9
1-15/16	048232	P2B-IP-115	048244	P2B-IP-115E	7.4
2 SM	048281	P2B-IP-200SM	048282	P2B-IP-200SME	7.4
2 LG	048233	P2B-IP-200LG	048245	P2B-IP-200LGE	8.0
2-3/16	048234	P2B-IP-203	048246	P2B-IP-203E	7.6
2-3/8	048235	P2B-IP-206	048247	P2B-IP-206E	13.8
2-7/16	048236	P2B-IP-207	048248	P2B-IP-207E	13.6
2-1/2	048286	P2B-IP-208	048287	P2B-IP-208E	13.6
2-11/16	048237	P2B-IP-211	048249	P2B-IP-211E	19.3
2-3/4	048238	P2B-IP-212	048250	P2B-IP-212E	19.0
2-15/16	048239	P2B-IP-215	048251	P2B-IP-215E	18.6
3-7/16	048240	P2B-IP-307	048252	P2B-IP-307E	28.4
3-15/16	048241	P2B-IP-315	048253	P2B-IP-315E	36.8

IMPERIAL-IP 2-BOLT PILLOW BLOCK DIMENSIONS — INCHES

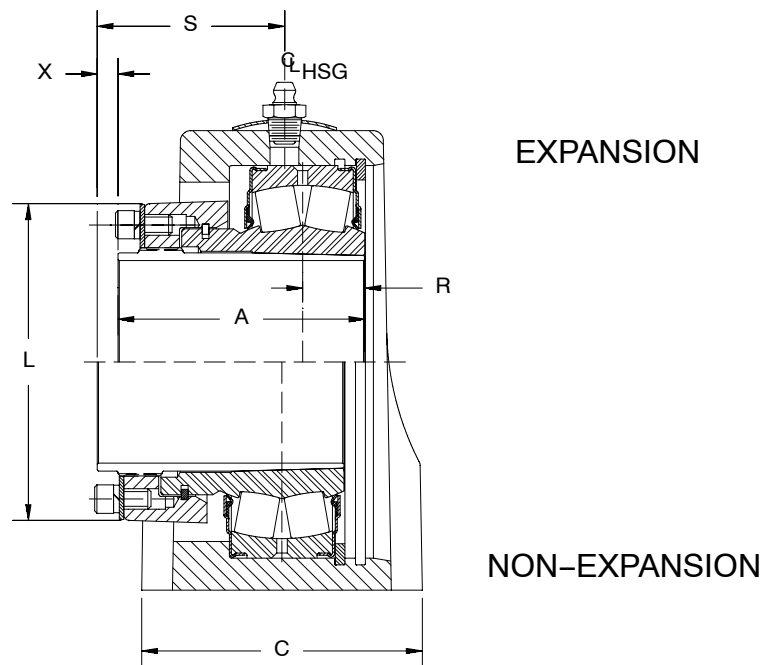
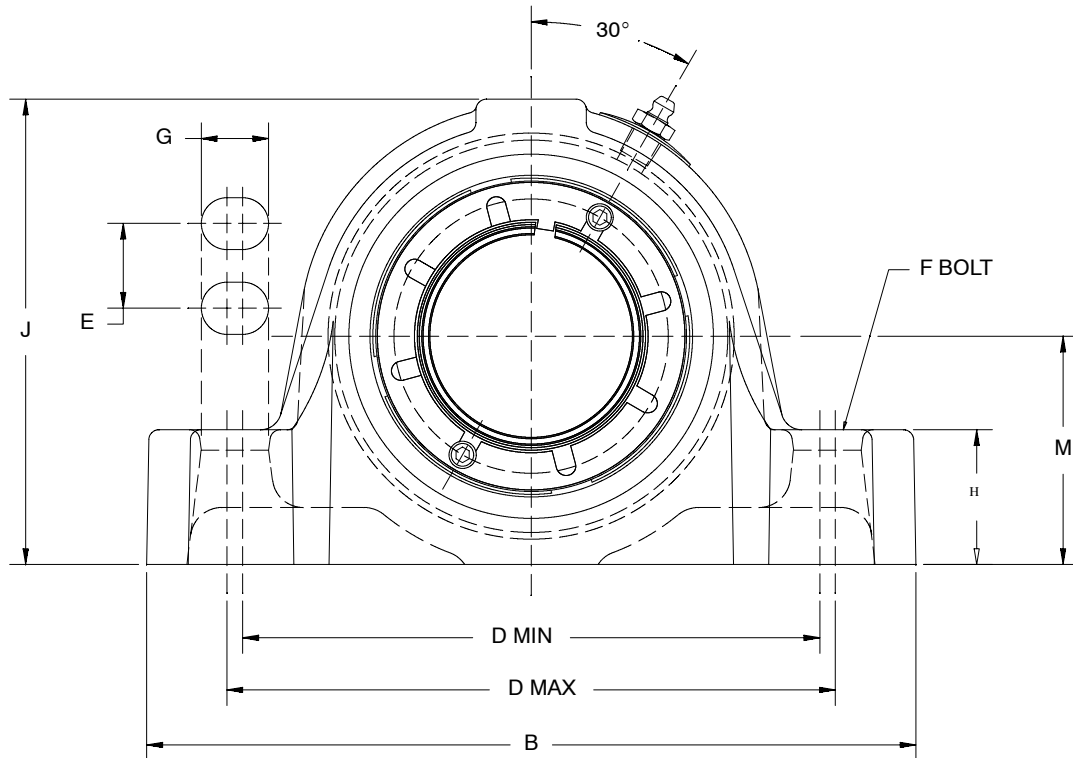
Shaft Size Inch	A	B	C	D		E Total Expansion	F Bolt Dia.	G	H	J	L	M	R	S
				Min.	Max.									
1-7/16	2-11/32	6-7/8	1-61/64	4-11/16	5-1/2	5/32	1/2	31/32	1-3/16	3-7/8	2-23/32	1-7/8	39/64	1-57/64
1-11/16	2-27/64	7-3/8	2-1/16	5-3/16	5-7/8	5/32	1/2	29/32	1-5/16	4-1/4	3	2-1/8	39/64	1-61/64
1-15/16 2 SM	2-7/16	8-3/8	2-1/16	5-15/16	6-11/16	5/32	5/8	1-1/16	1-3/8	4-9/16	3-9/32	2-1/4	5/8	1-31/32
2 LG 2-3/16	2-45/64	8-7/8	2-5/16	6-7/16	7-1/8	5/32	5/8	1-1/32	1-5/8	5	3-1/2	2-1/2	21/32	2-13/64
2-3/8 2-7/16 2-1/2	2-31/32	9-1/4	2-9/16	6-13/16	7-7/16	3/16	5/8	1	1-3/4	5-11/16	3-7/8	2-3/4	41/64	2-11/32
2-11/16 2-3/4 2-15/16	3-1/8	10-7/16	2-9/16	7-13/16	8-7/16	3/16	3/4	1-1/8	2-1/4	6-7/16	4-9/32	3-1/4	7/8	2-7/16
3-7/16	3-37/64	13	2-13/16	9-1/4	10-3/4	3/16	7/8	1-11/16	2-1/4	7-1/2	5	3-3/4	1-7/64	2-41/64
3-15/16	4	14-1/4	3-5/16	10	11-7/8	7/32	1	2	2-1/2	8-7/16	5-9/16	4-1/8	1-13/64	3-1/32

- Dimensions shown are for non-expansion units. The expansion bearing center and housing center are on the same centerline.
- * Furnished unless otherwise specified

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

IMPERIAL-IP Pillow Block 4-BOLT



FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

IMPERIAL-IP Pillow Block 4-BOLT

SHAFT SIZE	NON-EXPANSION*		EXPANSION		APPROX WEIGHT LBS.
	PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION	
2-7/16	048882	P4B-IP-207	048890	P4B-IP-207E	16.7
2-11/16	048883	P4B-IP-211	048891	P4B-IP-211E	24.1
2-3/4	048884	P4B-IP-212	048892	P4B-IP-212E	23.9
2-15/16	048885	P4B-IP-215	048893	P4B-IP-215E	23.0
3-7/16	048886	P4B-IP-307	048894	P4B-IP-307E	33.8
3-15/16	048887	P4B-IP-315	048895	P4B-IP-315E	48.6
4-7/16	048888	P4B-IP-407	048896	P4B-IP-407E	69.3
4-15/16	048889	P4B-IP-415	048897	P4B-IP-415E	103.5

IMPERIAL-IP 4-BOLT PILLOW BLOCK DIMENSIONS — INCHES

SHAFT SIZE	A	B	C	D		E	F BOLT DIA.	G	H	J	L	M	R	S	X
				MIN	MAX										
2-7/16	2-31/32	9-1/4	3-3/8	6-15/16	7-5/16	1-3/4	1/2	13/16	1-5/8	5-5/8	3-7/8	2-3/4	41/64	2-7/32	1/4
2-11/16 2-3/4 2-15/16	3-1/8	10-7/16	3-3/4	7-15/16	8-5/16	1-7/8	5/8	15/16	1-7/8	6-7/16	4-9/32	3-1/4	7/8	2-5/16	1/4
3-7/16	3-37/64	13	4-1/8	9-3/8	10-5/8	2	3/4	1-1/2	2-1/4	7-9/16	5	3-3/4	1-7/64	2-5/8	1/4
3-15/16	4	15-1/4	4-1/2	12-1/8	12-7/8	2-1/4	3/4	1-1/4	2-7/16	8-7/16	5-9/16	4-1/4	1-13/64	2-29/32	5/16
4-7/16	4-1/8	16-1/2	4-3/4	13	14	2-1/2	3/4	1-3/8	2-3/4	9-5/8	6-1/32	4-3/4	1-5/32	3-3/64	3/8
4-15/16	5-3/32	18-5/8	5-3/8	15	16	2-3/4	7/8	1-1/2	3	11-1/8	6-29/32	5-1/2	1-37/64	3-19/32	3/8

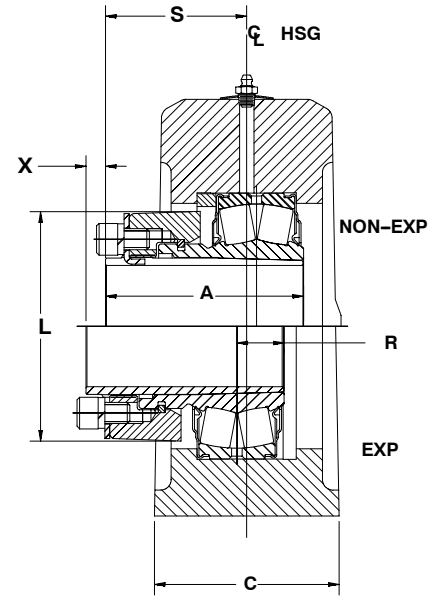
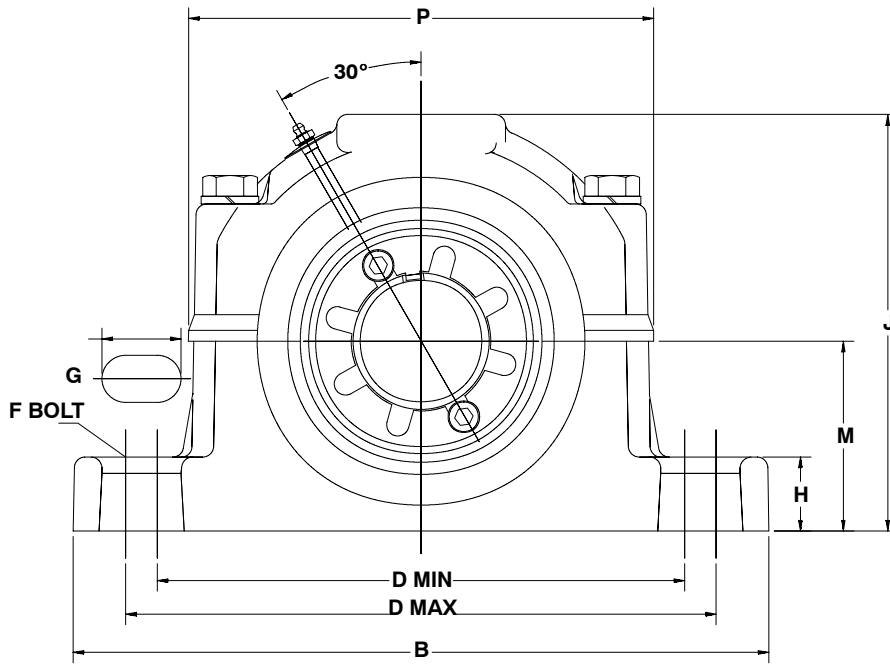
● Dimensions shown are for non-expansion units. The expansion bearing center and housing center are on the same centerline.

* Furnished unless otherwise specified.

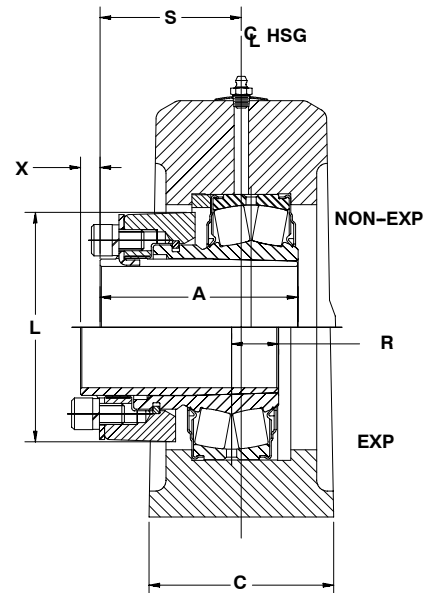
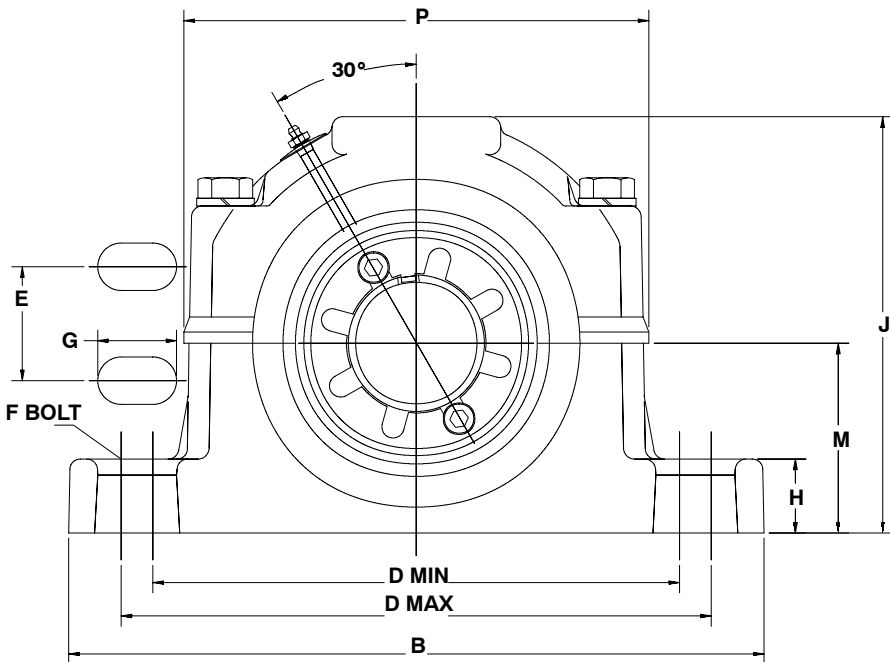
FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

ISAF 2-Bolt Pillow Block



ISAF 4-Bolt Pillow Block



FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

ISAF Pillow Blocks 2-bolt And 4-bolt

ISAF 2-BOLT PILLOW BLOCK

Shaft Size Inch	Comparable SAF housing Series	NON-EXPANSION*		EXPANSION		Approx. Weight lbs.
		Part Number	Part Name	Part Number	Part Name	
1-7/16	509	037810	P2B509-ISAF-107	037818	P2B509-ISAF-107E	12
1-15/16	511	037811	P2B511-ISAF-115	037819	P2B511-ISAF-115E	17

Shaft Size	SAF Series	A	B	C	D		F BOLT DIA	G	H	J
					MIN.	MAX.				
1-7/16	509	2-11/32	8-1/4	2-3/16	6-1/4	7	1/2	15/16	7/8	5-7/64
1-15/16	511	2-7/16	9-5/8	2-3/4	7-3/8	8-1/4	5/8	1-13/64	1-1/32	6-9/64

Shaft Size	SAF Series	L	M	P	R	S	X
1-7/16	509	2-23/32	2-1/4	5-33/64	9/16	1-23/32	0.231
1-15/16	511	3-9/32	2-3/4	6-23/64	19/32	1-23/32	0.275

ISAF 4-BOLT PILLOW BLOCK

Shaft Size Inch	Comparable SAF housing Series	NON-EXPANSION*		EXPANSION		Approx. Weight lbs.
		Part Number	Part Name	Part Number	Part Name	
2-7/16	515	037812	P4B515-ISAF-207	037820	P4B515-ISAF-207E	30
2-15/16	517	037813	P4B517-ISAF-215	037821	P4B517-ISAF-215E	45
3-7/16	520	037814	P4B520-ISAF-307	037822	P4B520-ISAF-307E	71
3-15/16	522	037815	P4B522-ISAF-315	037823	P4B522-ISAF-315E	110
4-7/16	526	037816	P4B526-ISAF-407	037824	P4B526-ISAF-407E	140
4-15/16	528	037817	P4B528-ISAF-415	037825	P4B528-ISAF-415E	180

Shaft Size	SAF Series	A	B	C	D		F Bolt Dia	E	G	H	J
					MIN.	MAX.					
2-7/16	515	2-31/32	11-1/8	3-1/8	8-5/8	9-5/8	1/2	1-7/8	1-1/8	1-1/4	7-1/32
2-15/16	517	3-1/8	12-19/32	3-1/2	9-7/8	11	5/8	2-1/8	1-21/64	1-1/4	7-59/64
3-7/16	520	3-37/64	14-1/4	4-11/32	11-13/16	13-1/8	3/4	2-3/8	1-5/8	1-21/32	9-27/64
3-15/16	522	4	16-1/2	4-3/4	12-19/32	14-1/2	3/4	2-3/4	1-53/64	1-2532	10-23/64
4-7/16	526	4-3/8	18-3/8	5-1/8	14-1/2	16	7/8	3-1/4	1-1/4	2-1/16	11-53/64
4-15/16	528	5-13/32	19-45/64	5-7/8	15-5/8	17-3/8	1	3-3/8	2	2-1/16	12-37/64

Shaft Size	SAF Series	L	M	P	R	S	X
2-7/16	515	3-7/8	3-1/4	7-3/8	3/4	2-3/32	0.325
2-15/16	517	4-9/32	3-3/4	8-5/16	25/32	2-15/64	0.245
3-7/16	520	5	4-1/2	10-3/32	15/16	2-1/2	0.394
3-15/16	522	5-9/16	4-15/16	10-45/64	1-3/32	2-25/32	0.388
4-7/16	526	6-7/16	6	12-19/64	1-5/32	3-9/64	0.394
4-15/16	528	7-5/8	6	13-23/64	1-37/64	3-49/64	0.394

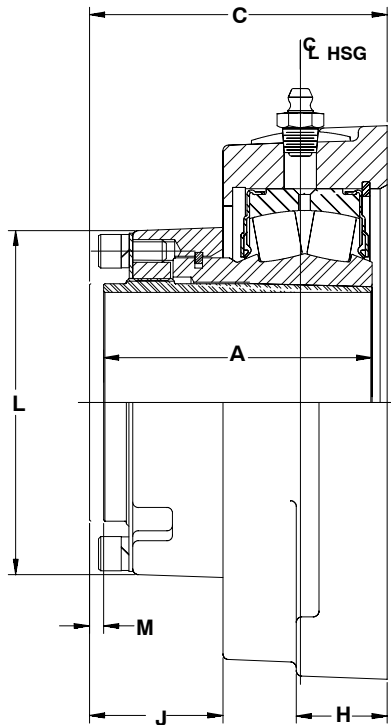
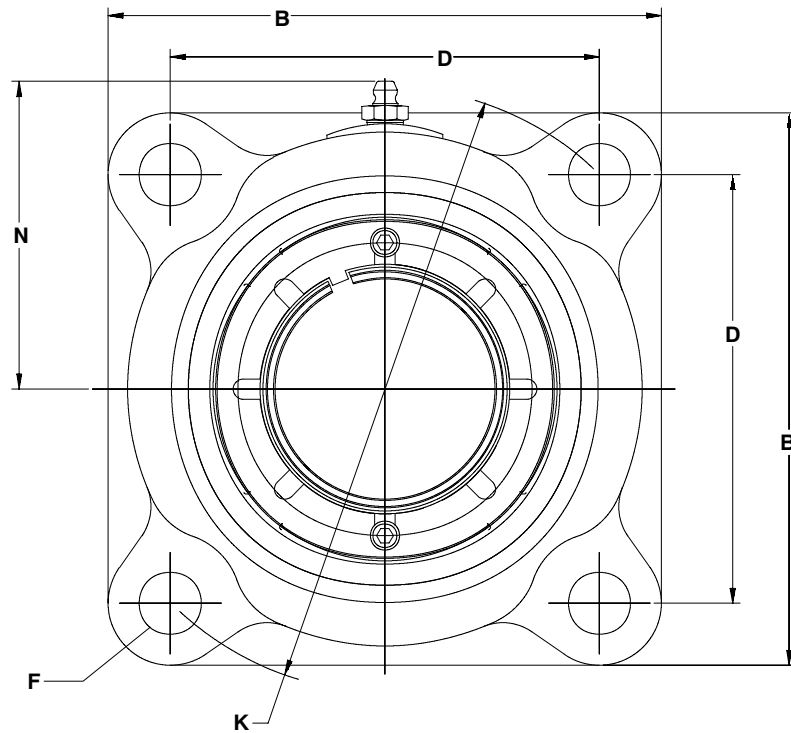
* Furnished unless otherwise specified.

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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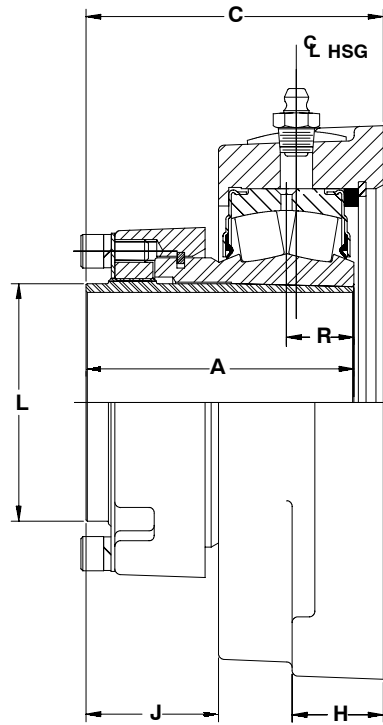
SELECTION/DIMENSIONS

IMPERIAL Flange Bearing

4-BOLT



EXPANSION



NON-EXPANSION

<p>FEATURES/BENEFITS PAGE B8-2</p>	<p>NOMENCLATURE PAGE B8-3</p>	<p>SELECTION PAGE B8-6</p>	
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SELECTION/DIMENSIONS

IMPERIAL Flange Bearing 4-BOLT

Shaft Size Inch Δ	NON-EXPANSION*		EXPANSION		Approx. Wt./Lbs.
	Part No.	Part Name	Part No.	Part Name	
1-7/16	048254	F4B-IP-107	048266	F4B-IP-107E	5.2
1-11/16	048255	F4B-IP-111	048267	F4B-IP-111E	6.7
1-15/16	048256	F4B-IP-115	048268	F4B-IP-115E	6.9
2 SM	048283	F4B-IP-200SM	048284	F4B-IP-200SME	6.7
2 LG	048257	F4B-IP-200LG	048269	F4B-IP-200LGE	8.4
2-3/16	048258	F4B-IP-203	048270	F4B-IP-203E	8.4
2-3/8	048259	F4B-IP-206	048271	F4B-IP-206E	11.0
2-7/16	048260	F4B-IP-207	048272	F4B-IP-207E	10.5
2-11/16	048261	F4B-IP-211	048273	F4B-IP-211E	17.0
2-3/4	048262	F4B-IP-212	048274	F4B-IP-212E	16.7
2-15/16	048263	F4B-IP-215	048275	F4B-IP-215E	16.3
3-7/16	048264	F4B-IP-307	048276	F4B-IP-307E	24.7
3-15/16	048265	F4B-IP-315	048277	F4B-IP-315E	32.0

Δ Consult DODGE for sizes not listed.

* Furnished unless otherwise specified.

IMPERIAL 4-BOLT FLANGE DIMENSIONS — INCHES

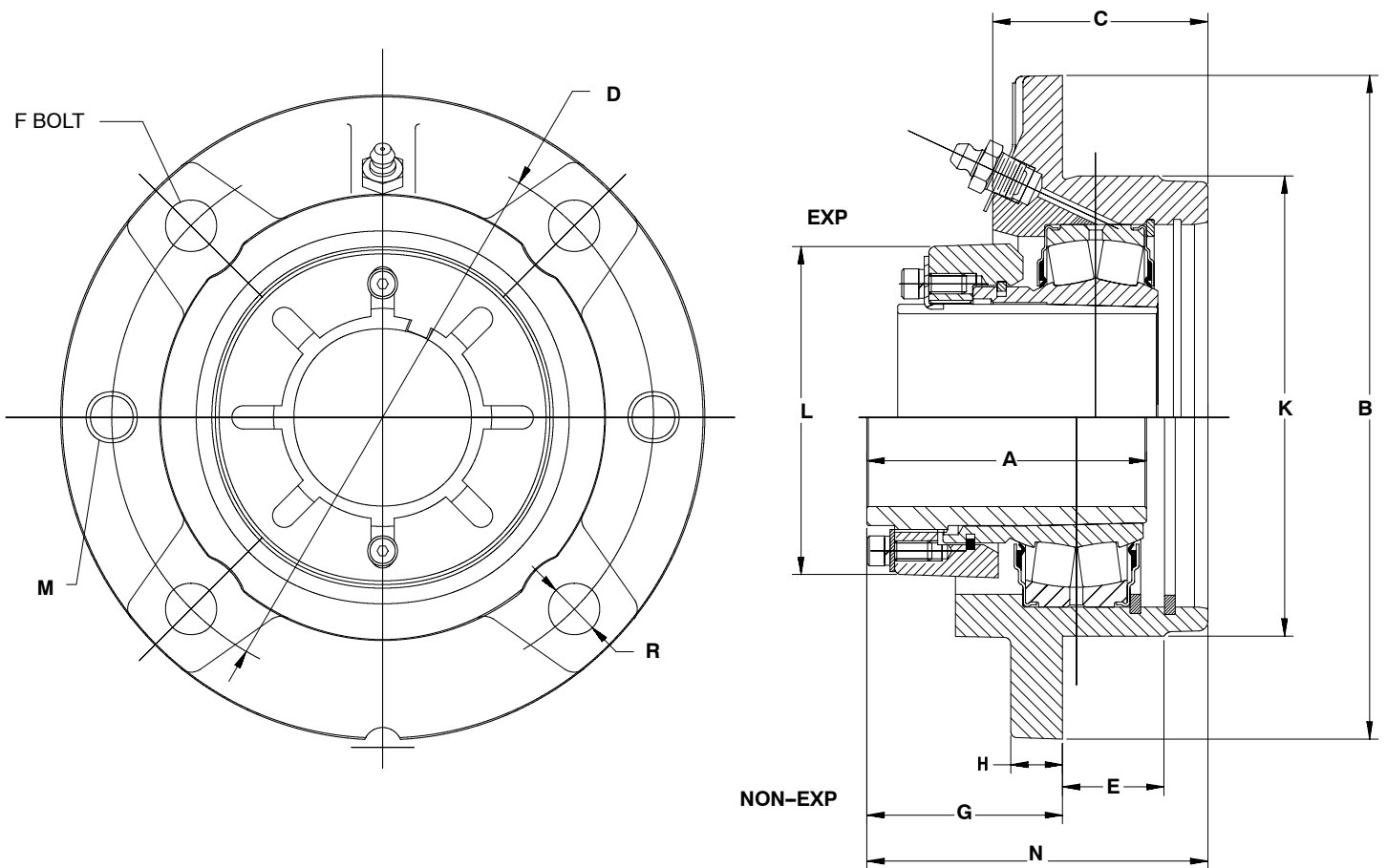
Shaft Size Inch	A	B	C	D	F Bolt Dia.	H	J	K	L	M Total Expansion	N	R
1-7/16	2-11/32	4-3/4	2-37/64	3-17/32	1/2	3/4	1-15/64	5	2-23/32	5/32	2-7/16	39/64
1-11/16	2-27/64	5-1/8	2-43/64	3-29/32	1/2	3/4	1-15/64	5-1/2	3	5/32	2-3/4	39/64
1-15/16 2 SM	2-7/16	5-5/16	2-23/32	4-1/16	1/2	11/16	1-1/4	5-3/4	3-9/32	5/32	2-7/8	5/8
2 LG 2-3/16	2-45/64	5-7/8	3	4-1/2	5/8	3/4	1-13/32	6-3/8	3-1/2	5/32	3-1/16	21/32
2-3/8 2-7/16	2-31/32	6-1/8	3-5/16	4-25/32	5/8	1	1-1/2	6-3/4	3-7/8	3/16	3-3/8	41/64
2-11/16 2-3/4 2-15/16	3-1/8	7-3/16	3-21/64	5-9/16	3/4	15/16	1-33/64	7-7/8	4-9/32	3/16	3-13/16	7/8
3-7/16	3-37/64	8-11/32	3-49/64	6-23/32	3/4	1-1/16	1-37/64	9-1/2	5	3/16	4-5/16	1-7/64
3-15/16	4	9-15/32	4-23/64	7-5/8	7/8	1-1/16	1-55/64	10-3/4	5-9/16	7/32	4-11/16	1-13/64

- Dimensions shown are for non-expansion units. The expansion bearing center and housing center are on the same centerline.

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

IMPERIAL Piloted Flange Bearing



FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

* IMPERIAL Piloted Flange Bearing

SHAFT SIZE	NON-EXPANSION*		EXPANSION		APPROX. WEIGHT LBS
	PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION	
1-7/16	048420	FC-IP-107	048432	FC-IP-107E	5.8
1-11/16	048421	FC-IP-111	048433	FC-IP-111E	7.5
1-15/16	048422	FC-IP-115	048434	FC-IP-115E	7.7
2	048423	FC-IP-200	048435	FC-IP-200E	7.6
2-3/16	048424	FC-IP-203	048436	FC-IP-203E	9.4
2-3/8	048425	FC-IP-206	048437	FC-IP-206E	12.3
2-7/16	048426	FC-IP-207	048438	FC-IP-207E	11.8
2-11/16	048427	FC-IP-211	048439	FC-IP-211E	19.0
2-3/4	048428	FC-IP-212	048440	FC-IP-212E	18.7
2-15/16	048429	FC-IP-215	048441	FC-IP-215E	18.3
3-7/16	048430	FC-IP-307	048442	FC-IP-307E	27.7
3-15/16	048431	FC-IP-315	048443	FC-IP-315E	35.8

* Furnished unless otherwise specified.

IMPERIAL PILOTED FLANGE DIMENSIONS — INCHES

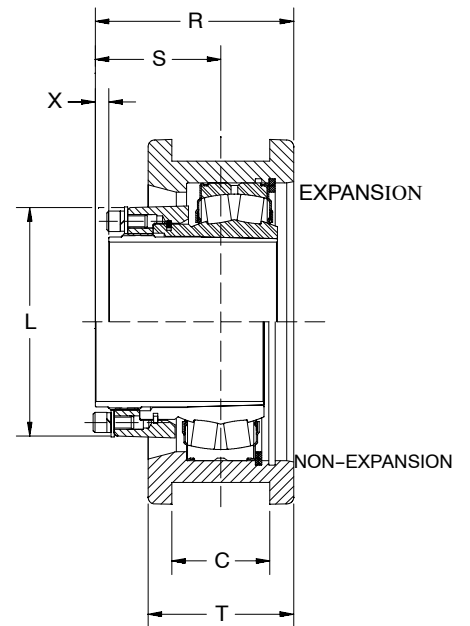
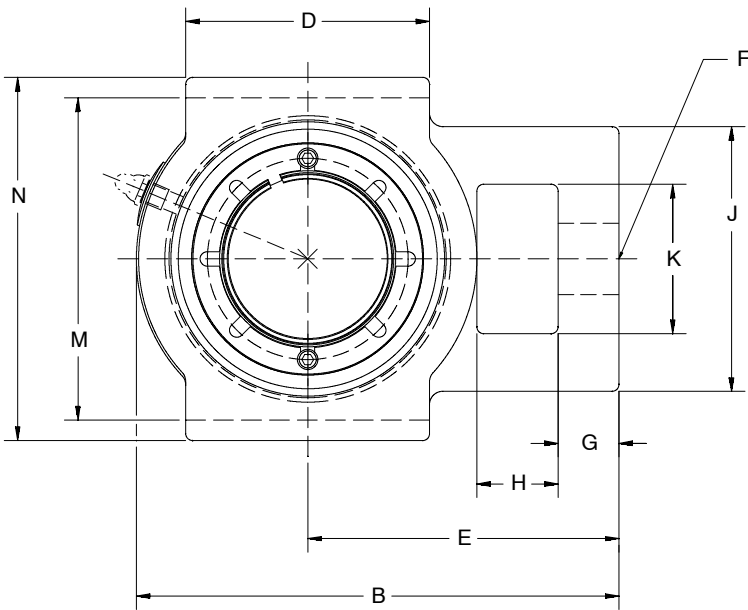
SHAFT SIZE	A	B	C	D	E	F-BOLT DIA.	G		H	K +0.000 -0.002	L	M	N
							NE	EXP					
1-7/16	2-11/16	5-1/4	2	4-3/8	3/4	3/8	1-15/32	1-7/32	7/16	3-5/8	2-23/32	3/8 - 16	2.84
1-11/16	2-27/64	6-1/8	2	5-1/8	7/8	7/16	1-17/32	1-9/32	7/16	4-1/4	3	7/16 - 14	2.88
1-15/16 2	2-7/16	6-3/8	2	5-3/8	7/8	7/16	1-17/32	1-9/32	1/2	4-1/2	3-9/32	7/16 - 14	2.87
2-3/16	2-45/64	7-1/8	2.18	6	1	1/2	1-21/32	1-13/32	1/2	5	3-1/2	1/2 - 13	3.16
2-3/8 2-7/16	2-31/32	7-5/8	2.5	6-1/2	1	1/2	1-13/16	1-9/16	9/16	5-1/2	3-7/8	1/2 - 13	3.45
2-11/16 2-3/4 2-15/16	3-1/8	8-3/4	2.62	7-1/2	1-1/4	5/8	1-31/32	1-23/32	11/16	6-3/8	4-9/32	5/8 - 11	3.66
3-7/16	3-37/64	10-1/4	3	8-5/8	1-1/4	3/4	2-7/16	2-3/16	7/8	7-3/8	5	3/4 - 10	4.03
3-15/16	4	10-7/8	3.5	9-3/8	1-1/2	3/4	2-21/32	2-11/32	1-1/16	8-1/8	5-9/16	3/4 - 10	4.63

• Dimensions shown are for non-expansion units. The expansion bearing center and housing center are on the same centerline.

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

IMPERIAL Wide Slot Take-up Bearing



<p>FEATURES/BENEFITS PAGE B8-2</p>	<p>NOMENCLATURE PAGE B8-3</p>	<p>SELECTION PAGE B8-6</p>	
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SELECTION/DIMENSIONS

IMPERIAL Wide Slot Take-up Bearing

SHAFT SIZE	NON-EXPANSION*		EXPANSION		APPROX. WEIGHT LBS.
	PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION	
1-7/16	048898	WSTU-IP-107	048910	WSTU-IP-107E	6.3
1-11/16	048899	WSTU-IP-111	048911	WSTU-IP-111E	8.1
1-15/16	048900	WSTU-IP-115	048912	WSTU-IP-115E	9.0
2	048901	WSTU-IP-200	048913	WSTU-IP-200E	8.8
2-3/16	048902	WSTU-IP-203	048914	WSTU-IP-203E	12.6
2-3/8	048903	WSTU-IP-206	048915	WSTU-IP-206E	16.2
2-7/16	048904	WSTU-IP-207	048916	WSTU-IP-207E	15.8
2-11/16	048905	WSTU-IP-211	048917	WSTU-IP-211E	22.5
2-3/4	048906	WSTU-IP-212	048918	WSTU-IP-212E	22.1
2-15/16	048907	WSTU-IP-215	048919	WSTU-IP-215E	21.7
3-7/16	048908	WSTU-IP-307	048920	WSTU-IP-307E	34.2
3-15/16	048909	WSTU-IP-315	048921	WSTU-IP-315E	45.0

* Furnished unless otherwise specified.

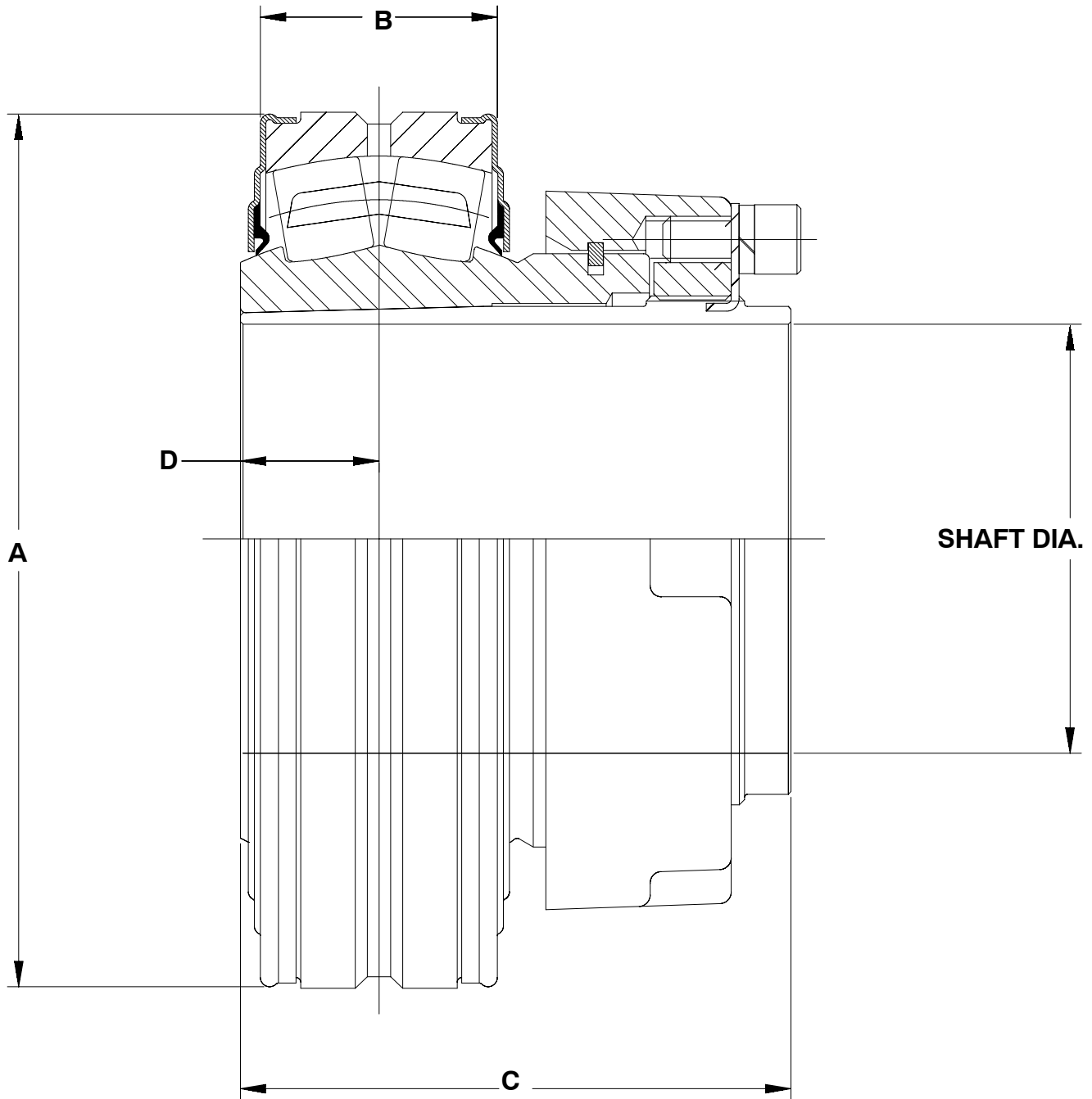
IMPERIAL WIDE SLOT TAKE-UP DIMENSIONS — INCHES

SHAFT SIZE	B	C	D	E	F	G	H	J	K	L	M	N	R	S	T	X	FRAME SIZE
1-7/16	5-1/16	17/32	2-3/4	3-3/16	7/8	11/16	5/8	2-7/16	1-7/16	2-43/64	3-1/2	4-1/8	2-13/16	1-25/32	2-1/16	1/4	CP308
1-11/16	5-15/16	11/16	3-1/8	3-13/16	1-1/8	15/16	3/4	3-5/16	1-15/16	2-61/64	4	4-3/4	2-27/32	1-27/32	2-1/32	1/4	CP400
1-15/16	6-3/16	11/16	3-5/8	3-15/16	1-1/8	15/16	3/4	3-5/16	1-15/16	3-13/64	4	4-3/4	2-27/32	1-27/32	2	1/4	CP400
2 2-3/16	7-1/16	13/16	3-5/8	4-5/8	1-3/8	15/16	1-1/4	3-7/8	2-1/4	3-7/16	4-1/2	5-1/4	3-11/64	2-1/16	2-7/32	1/4	CP408
2-3/8 2-7/16	7-11/16	1-1/16	4-3/8	5	1-3/8	1-1/16	1-1/4	4-1/4	2-1/2	3-13/16	5-1/8	5-7/8	3-7/16	2-7/32	2-7/16	1/4	CP502
2-11/16 2-3/4 2-15/16	8-7/8	1-13/16	4-1/2	5-3/4	1-5/8	1-1/8	1-1/2	4-7/8	2-3/4	4-13/64	5-15/16	6-11/16	3-21/32	2-21/64	2-11/16	1/4	CP515
3-7/16	10-1/16	1-13/16	5-1/2	6-3/8	1-7/8	1-1/16	1-5/8	5-1/8	2-7/8	4-59/64	6-13/16	7-13/16	4-5/32	2-5/8	3-1/16	1/4	CP613
3-15/16	12-9/16	2-1/16	7	8-3/8	2-1/8	2-1/16	2-1/8	6	3-3/8	5-15/32	8-5/8	9-7/16	4-5/8	2-29/32	3-7/16	5/16	CP810

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

IMPERIAL Bearing Insert - Inch



FEATURES/BENEFITS
PAGE B8-2

NOMENCLATURE
PAGE B8-3

SELECTION
PAGE B8-6



SELECTION/DIMENSIONS

IMPERIAL Bearing Insert – Inch

IMPERIAL BEARING INSERT W/SEALS

Shaft Size Inch	Part No.	Part Name	Approx. Wt./Lbs.
1-7/16	048295	INSIP107	2.0
1-11/16	048296	INSIP111	2.2
1-15/16	048297	INSIP115	2.5
2SM	048293	INSIP200SM	2.8
2LG	048298	INSIP200LG	2.8
2-3/16	048299	INSIP203	2.6
2-3/8	048300	INSIP206	4.7
2-7/16	048301	INSIP207	4.5
2-11/16	048302	INSIP211	6.3
2-3/4	048303	INSIP212	6.0
2-15/16	048304	INSIP215	5.8
3-7/16	048305	INSIP307	9.8
3-15/16	048306	INSIP315	12.9
4-7/16	048291	INSIP407	18.6
4-15/16	048292	INSIP415	28.2

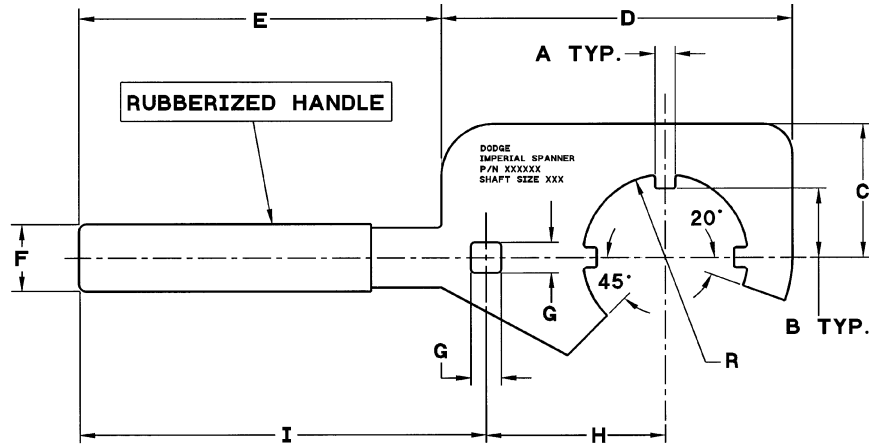
IMPERIAL BEARING INSERT DIMENSIONS — INCHES

Shaft Size Inch	A	B	C	D
1-7/16	3.1496	.9455	2-11/32	39/64
1-11/16	3.3465	.9455	2-27/64	39/64
1-15/16 2SM	3.5433	.9455	2-7/16	5/8
2LG 2-3/16	3.9370	1.0343	2-45/64	21/32
2-3/8 2-7/16	4.7244	1.2705	2-31/32	41/64
2-11/16 2-3/4 2-15/16	5.1181	1.2705	3-1/8	7/8
3-7/16	6.2992	1.6243	3-37/64	1-7/64
3-15/16	7.0866	1.8610	4	1-13/64
4-7/16	7.8740	2.1586	4.368	1.16
4-15/16	9.0551	2.5916	5.403	1.573

FEATURES/BENEFITS PAGE B8-2	NOMENCLATURE PAGE B8-3	SELECTION PAGE B8-6	
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SELECTION/DIMENSIONS

IMPERIAL Impact Spanner Wrench

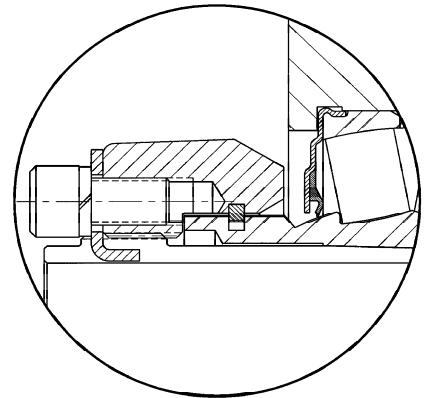
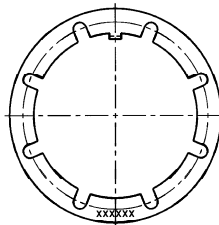


Shaft Size Inch	Part No.	Thickness	A	B	C	D	E	F	G	H	I	R
1-7/16	066629	0.5	0.335	1.147	2.219	5.875	6	1	0.51	3	6.750	1.380
1-11/16	066630	0.5	0.335	1.270	2.219	5.875	6	1	0.51	3	6.750	1.520
1-15/16 2 SM	066631	0.5	0.335	1.425	2.219	5.875	6	1	0.51	3	6.750	1.645
2 LG 2-3/16	066632	0.5	0.460	1.550	2.219	5.875	6	1	0.51	3	6.750	1.770
2-3/8 2-7/16	066633	0.5	0.460	1.748	2.750	6.875	6	1	0.51	3	7.250	1.958
2-11/16 2-3/4 2-15/16	066634	0.5	0.460	1.925	2.750	6.875	6	1	0.51	3.25	7	2.160
3-7/16	066635	0.5	0.460	2.240	3	7.875	6	1	0.51	4	7	2.520
3-15/16	066636	0.5	0.460	2.453	3.375	8.375	6	1	0.51	4	7.125	2.801
4-7/16	066637	0.5					6	1	0.76			
4-15/16	066638	0.5					6	1	0.76			

Material: Heat treated 4140 ST or 1045 ST or Equivalent

IMPERIAL LOCKPLATE KIT

Shaft Size Inch	Part Number
1-7/16	048925
1-11/16	048926
1-15/16 2 SM	048927
2 LG 2-3/16	048928
2-3/8 2-7/16	048929
2-11/16 2-3/4 2-15/16	048930
3-7/16	048931
3-15/16	048932



The Lockplate Kit consists of:
 Lockplate
 2 Socket Head Capscrews
 2 Lockwashers

FEATURES/BENEFITS PAGE B8-2	HOW TO ORDER PAGE B7-8	NOMENCLATURE PAGE B7-9	SELECTION PAGE B7-10
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