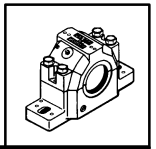


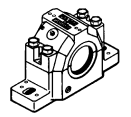
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# FEATURES/BENEFITS



## DODGE UNIFIED SAF and SDAF Pillow Blocks

### BEARINGS

**Spherical Roller Bearing** — 22200, 22300, 23000, 23100 and 23200, tapered bore for adapter mount and straight bore for direct mount.

### SPLIT-SPHER Bearing

Complete split replacement for an adapter mounted 22200. Compatible with UNIFIED SAF and SN housings. Available in inch bores.

### SHAFT SIZES

Available for shaft sizes 1-7/16" - 15-3/4" and 40 mm-140 mm in adapter mount. Additional sizes offered in direct mount. Pillow blocks are available in 200, 300, 500 and 600 series.

### DIMENSIONS

**UNIFIED SAF and SDAF** pillow blocks match standard SAF and SDAF inch dimensions. UNIFIED SN plummer blocks match ISO and industry metric dimensions.

### PLUS YOU GET BUILT-IN DESIGN ADVANCEMENTS.

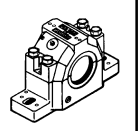
With DODGE UNIFIED SAF, SDAF & SN pillow blocks, you benefit from a housing that has capabilities for harsh environments that competitive pillow blocks do not have.



### VIRTUALLY EVERY FEATURE YOU EVER WANTED IN YOUR PILLOW BLOCK

- Cast-in dimples locate drill holes for lube fittings, vents, sensors and mounting modifications.
- Housing base is threaded to accept four Grade 5 cap bolts for added strength. Cap bolts match base bolts for one-wrench installation.
- Standard housings have two oversized drains adaptable to circulating oil systems.
- Pry slots allow easy separation of the pillow block.

# FEATURES/BENEFITS



## DODGE UNIFIED SAF and SDAF Pillow Blocks



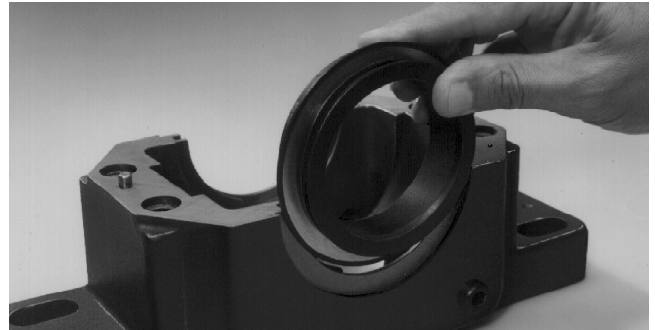
Cast iron, closed-end housings offer greater protection in high pressure washdown environments. Available from stock.



Standard modifications for wet and harsh environments include nylon coating, epoxy paints and nickel plating, as well as stainless steel hardware.



Solid cast iron feet increase strength in both two and four-bolt styles.



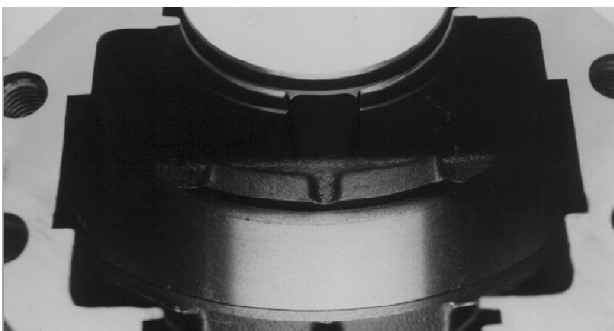
New drop-in TRIPLE-TECT Seal makes seal installation easier.



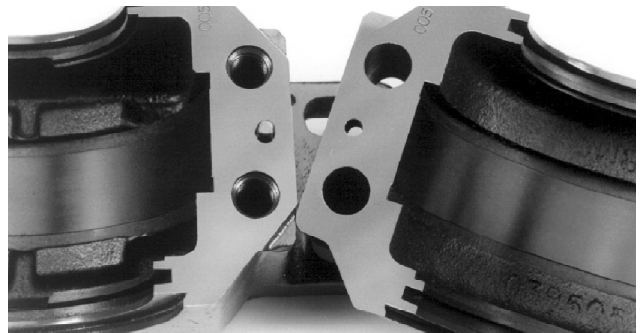
Large capacity oil sump lowers operating temperatures. Undercut bearing seat allows full lateral travel of expansion bearing. Prevents stabilizer ring from binding, makes installation easy.



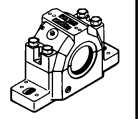
Exclusive oil-equalization passage simplifies maintenance. Pillow block can be drained completely from either side.



Oil return slots are cast into the interior seal grooves to keep lubricants in. This allows oil in the seal grooves to return to the oil sump instead of leaking.



Offset dowels with matched numbers on cap and base joint simplify correct assembly.



## DODGE UNIFIED SAF and SDAF Pillow Blocks

### SPLIT-SPHER BEARINGS FROM DODGE INCREASE PRODUCTION AND REDUCE DOWNTIME

The SPLIT-SPHER bearing is quick to install. Simplified bearing installation puts equipment back into operation faster and keeps production moving.

#### HERE'S WHY!

DODGE offers a split-race spherical bearing that fits SAF housings and replaces bearing and adapter assemblies. It's a real cost-saver in every case where the shaft must be stripped of components to permit sliding the new bearing onto its proper shaft location.

#### DIMENSIONS ARE STANDARD.

The DODGE SPLIT-SPHER bearing has the same O.D. dimensions as a standard spherical bearing. This means you can use a SPLIT-SPHER pillow block on the inaccessible end of a shaft and a standard pillow block on the accessible end. DODGE offers the only split-race bearings made to standard SAF pillow block dimensions.

Also, if needed, the backing dimension of the SPLIT-SPHER block can be increased by shimming to meet the requirements of any roller bearing it replaces.

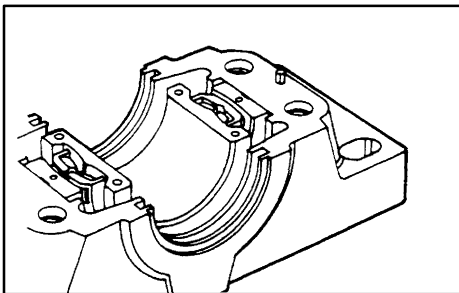
#### REDUCE REPLACEMENT TIME UP TO 50%.

To replace a standard spherical roller bearing with a SPLIT-SPHER insert, remove the cap, elevate the shaft enough to support the load and burn off the failed bearing and adapter with a torch.

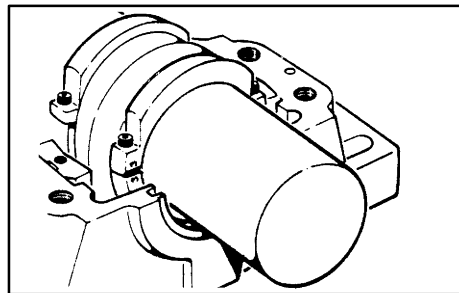
The DODGE SPLIT-SPHER replacement lower halves can then be slipped under the shaft, along with the split seals. Bolt the upper halves in place, lower the shaft and replace the cap. There's no need to remove any other shaft-mounted components or move motors and other bulky machinery.



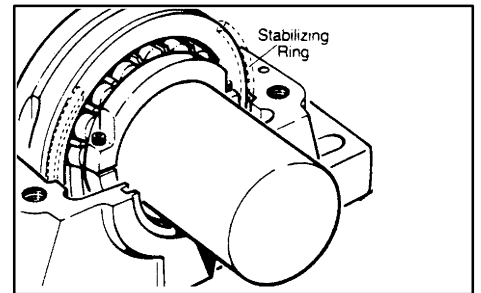
### The SPLIT-SPHER insert is easy to install!



1. Slightly elevate shaft, cut off old bearing and slip lower halves of SPLIT-SPHER rings and roller assembly beneath shaft.

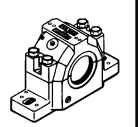


2. Bolt upper half of inner ring to lower half.

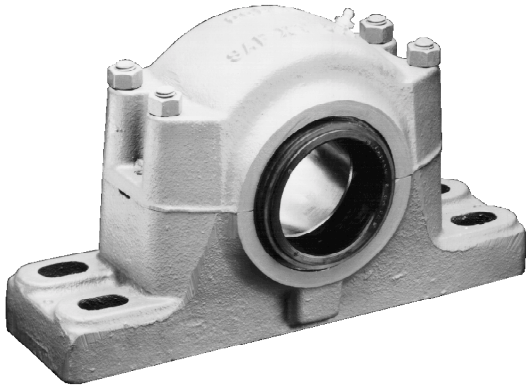


3. Place upper half of roller assembly in position and bolt on upper half of outer ring. Lower shaft and replace housing cap.

# FEATURES/BENEFITS

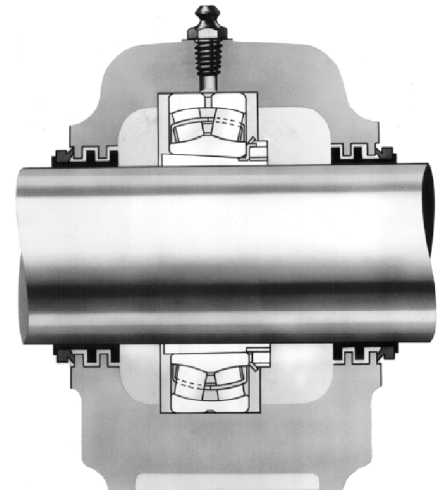


## SAF-XT Spherical Roller Bearings

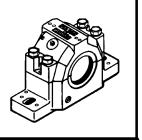


The SAF-XT Pillow Block Housing is designed for typical SAF dimensional interchangeability, complete with such desirable features as 4-bolt caps, cap removal pry slots, elongated bolt holes, and dimpled feet for doweling. In addition to these features the SAF-XT housing also incorporates a better grease purging/sealing system for extra protection of the bearing in a hostile environment.

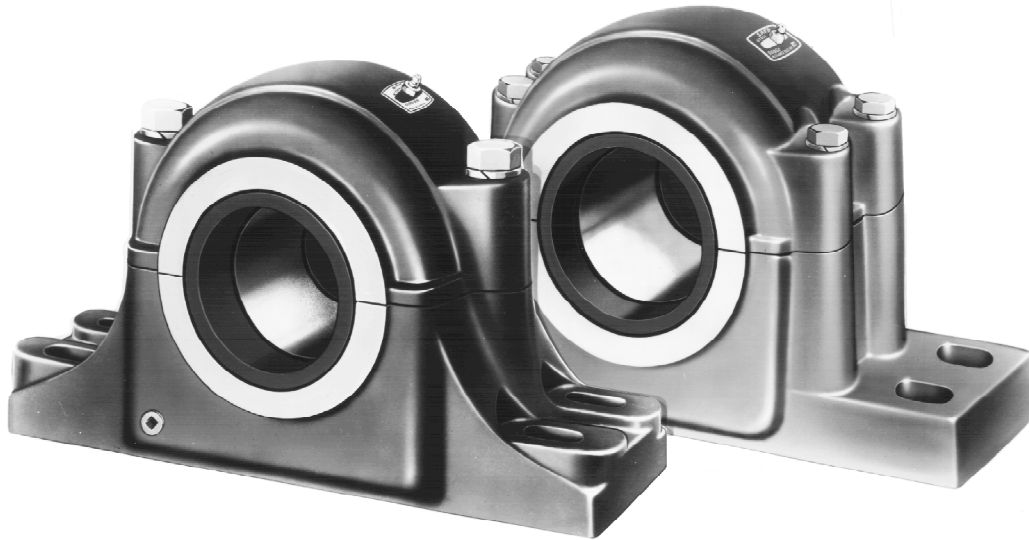
The SAF-XT pillow block has only one grease fitting. Bearings with costly, comparably effective auxiliary seals have up to three grease fittings. The single fitting speeds up lubrication, reduces chance for voids. Complete fill, bearing action, and configuration of reservoir assure maximum purging effectiveness. Grease relief channels result in self-centering positive contact seal. These factors make SAF-XT blocks easy to lubricate.



# FEATURES/BENEFITS



## SAFS



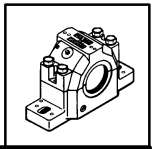
DODGE SAFS cast steel pillow blocks mount medium duty 22200K series spherical roller bearings on 2-7/16" - 8" shafts.

These pillow blocks are well suited for applications requiring either grease or oil lubrication where adapter mounting is preferred and limited thrust loads are experienced. Cast steel housings provide greater resistance to impact and shock loading than the more economical cast iron pillow

blocks. (SPLIT-SPHER bearing and seals may also be installed in SAFS housings. See page NO TAG & NO TAG.)

SAFS pillow blocks are furnished complete with the TRIPLE-TECT combination labyrinth and face rubbing seals. LER triple ring seals are available as an alternate seal for SAFS pillow blocks. Where required, purgeable auxiliary seals and end closures are also available.





# SPECIFICATIONS

## Housing

Grade 30 cast iron is the standard housing material except on SAFS housings. When steel housings are required, the SAFS bearing line is recommended.

### SPECIAL DRILLING

The standard offering includes a W33 lube hole and fitting, along with a cap vent hole. UNIFIED Bearings also come standard with dual oversized drain holes in the base. Additional holes may be drilled to meet customer specifications for lube, vent and sensor locations. To order, specify holes required from chart on page NO TAG and add to the end of the description. Order by description instead of part number. Minimum order quantities will be required for this special drilling.

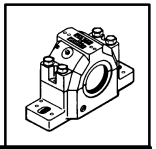
### SPECIAL FINISHES

A variety of finishes is available for extra corrosion resistance. The standard finish is a water based U.S.D.A. approved paint. When special finishes are specified, DODGE recommends the use of stainless steel cap bolts and grease fittings. To order, specify the "type of finish" required and "stainless bolts and fittings" at the end of the description. Order by description for special finishes.

### BEARINGS

Standard bearings offered are 22200 and 22300 series metal caged, double row, spherical bearings with C3 fits in both direct and adapter mounts (shaft sizes larger than 8" are standard with C0 fit). Other fit bearings are available as options, i.e. C0, C4 and C5. Other double row spherical bearing series are available on request including 23000 and 23200 in both direct and adapter mount. Self aligning ball bearing series 1200, 1300 and 2200 in both adapter and direct mount are available on request. To order, specify bearing "series" or "fit" at the end of the description.

For applications requiring modifications not listed, we encourage you to contact our Application Engineering Department for Bearings at 864-297-4800 or Fax 864-281-2317 during the hours of 8:00 a.m. and 5:00 p.m. Eastern time.



# HOW TO ORDER

## Inch

DODGE UNIFIED Spherical Bearings are housed and sealed general purpose, high capacity double row spherical roller bearings. Bearings may be mounted on shafts with adapters, or they may be mounted directly, using interference fits.

The standard material used in housings is ASTM A48 Class 30 Cast iron. Steel versions are also available in the SAFS line on page NO TAG. Housings may be modified to suit customer requirements for mounting, venting, lubricating or monitoring of the bearing. Housing designs are available for performance in extreme harsh environments through the use of cast closed ends, nylon coating and stainless steel hardware.

A wide variety of standard seals is available including labyrinth and rubbing seals and combinations of the two. DODGE TRIPLE-TECT\* and Drop-in TRIPLE-TECT\* seals are recommended for general purpose applications because of their superior combination sealing action. More information on seals is shown on page B9-24.

Locking devices, including tapered adapters and locking washers and nuts, are available to accommodate both commercial and precision machined shafting.

## How to Order Dodge UNIFIED Bearings

There are two ways to specify DODGE Bearings. Most of the product offerings have part numbers, with listings shown throughout this catalog. Use of part numbers insures accurate order processing.

When part numbers are not shown, the product may be specified by description. This method is used when ordering units that include modifications/options. To order by description, use the nomenclature key shown on page B9-9 and add any special instructions to the end of the description for options not covered by the nomenclature.

\* Patent numbers 4348067 and 5259628



# NOMENCLATURE



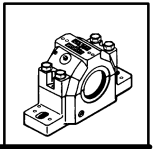
## Complete Pillow Block — Inch

<span style="margin-right: 100px;">P2B</span> <span style="margin-right: 100px;">515 - USAF - 207</span> <span style="margin-right: 100px;">TT</span>				
HOUSING STYLE	BEARING SERIES AND HOUSING SIZE	TYPE OF MOUNTED BEARING	SIZE INCHES	SEAL TYPE
P2B - 2 Bolt Base Pillow Block, Cast Iron, Both Ends Open	2XX - For Direct Mount 22200 Series Bearing	USAF - UNIFIED SAF Pillow Block (Inch Dimensions)	207 - Inches & 16ths 2 = 2" 07 = 7/16"	TT - TRIPLE-TECT LER - Metal Labyrinth
P4B - 4 Bolt Base Pillow Block, Cast Iron, Both Ends Open	3XX - For Direct Mount 22300 Series Bearing	USDAF - UNIFIED SDAF Pillow Block	107 = 1-7/16" 111 = 1-11/16" 115 = 1-15/16"	SS - Split Non-Metallic Labyrinth
CP2B - 2 Bolt Base Pillow Block, Cast Iron, One End Closed	5XX - For Adapter Mounted 22200K Series Bearing	SS - SPLIT-SPHER Pillow Block	203 = 2-3/16" 207 = 2-7/16" 208 = 2-1/2" 211 = 2-11/16" 212 = 2-3/4" 215 = 2-15/16" 300 = 3" 303 = 3-3/16" 307 = 3-7/16" 308 = 3-1/2" 315 = 3-15/16" 400 = 4" 403 = 4-3/16" 407 = 4-7/16" 408 = 4-1/2" 415 = 4-15/16" 500 = 5" 503 = 5-3/16" 507 = 5-7/16" 508 = 5-1/2" 515 = 5-15/16" 600 = 6" 607 = 6-7/16" 608 = 6-1/2" 615 = 6-15/16" 700 = 7" 703 = 7-3/16" 708 = 7-1/2" 715 = 7-15/16" 800 = 8" 807 = 8-7/16" 808 = 8-1/2" 815 = 8-15/16" 900 = 9" 907 = 9-7/16" 908 = 9-1/2" 915 = 9-15/16" 1000 = 10" 1007 = 10-7/16" 1008 = 10-1/2"	TTDN - Drop-In TRIPLE-TECT AUX - Auxiliary (Taconite) EC - End Closure
CP4B - 4 Bolt Base Pillow Block, Cast Iron, One End Closed	6XX - For Adapter Mounted 22300K Series Bearing			
	0XX - For Adapter Mounted 23000K Series Bearing			

For monitor equipped pillow blocks a C preceeding the pillow block designation indicates closed ends.

SPECIFICATIONS (INCH) PAGE B9-7	HOW TO ORDER PAGE B9-8	BEARING MONITOR SYSTEMS PAGE B9-113	SELECTION/DIMENSIONS PAGE B7-42
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# NOMENCLATURE

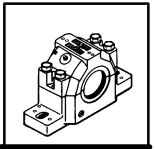


## Housing Only (Housing and Stab Ring) Inch

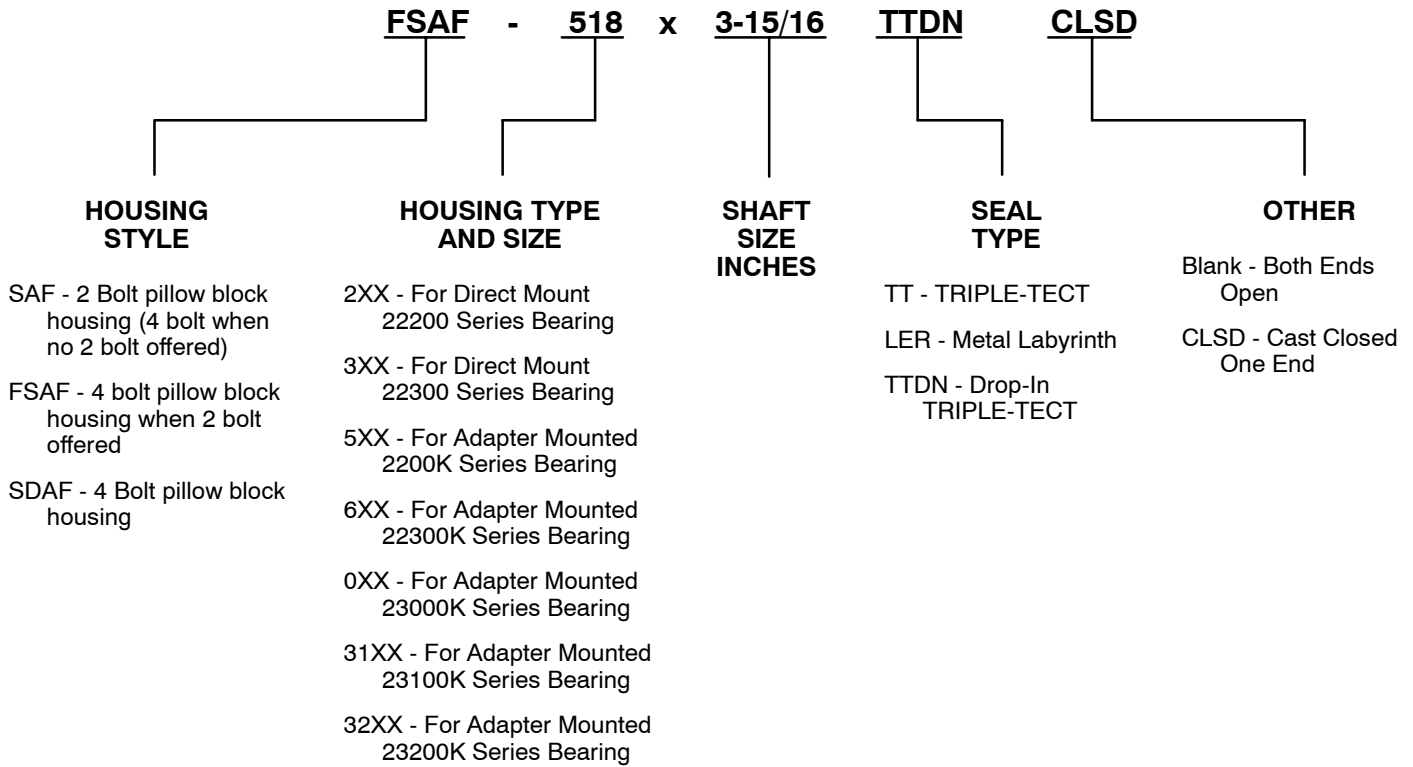
H4S - 515 - USAF

HOUSING STYLE	HOUSING TYPE AND SIZE	TYPE OF MOUNTED BEARING HOUSING
H2S - 2 Bolt Base Pillow Block, Cast Iron, Both Ends Open	2XX - For Direct Mount 22200 Series Bearing	USAF - UNIFIED SAF Cast Iron Pillow Block Housing (Inch Dimensions)
H4S - 4 Bolt Base Pillow Block, Cast Iron, Both Ends Open	3XX - For Direct Mount 22300 Series Bearing	USDAF - UNIFIED SDAF Cast Iron Pillow Block Housing (Inch Dimensions)
CH2S - 2 Bolt Base Pillow Block, Cast Iron, One End Closed	5XX - For Adapter Mounted 22200K Series Bearing	
CH4S - 4 Bolt Base Pillow Block, Cast Iron, One End Closed	6XX - For Adapter Mounted 22300K Series Bearing	
	0XX - For Adapter Mounted 23000K Series Bearing	
	31XX - For Adapter Mounted 23100K Series Bearing	
	32XX - For Adapter Mounted 23200K Series Bearing	

# NOMENCLATURE

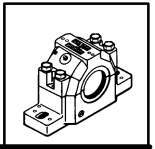


## Housing Assembly (Housing And Stab Ring And Seals) - Inch

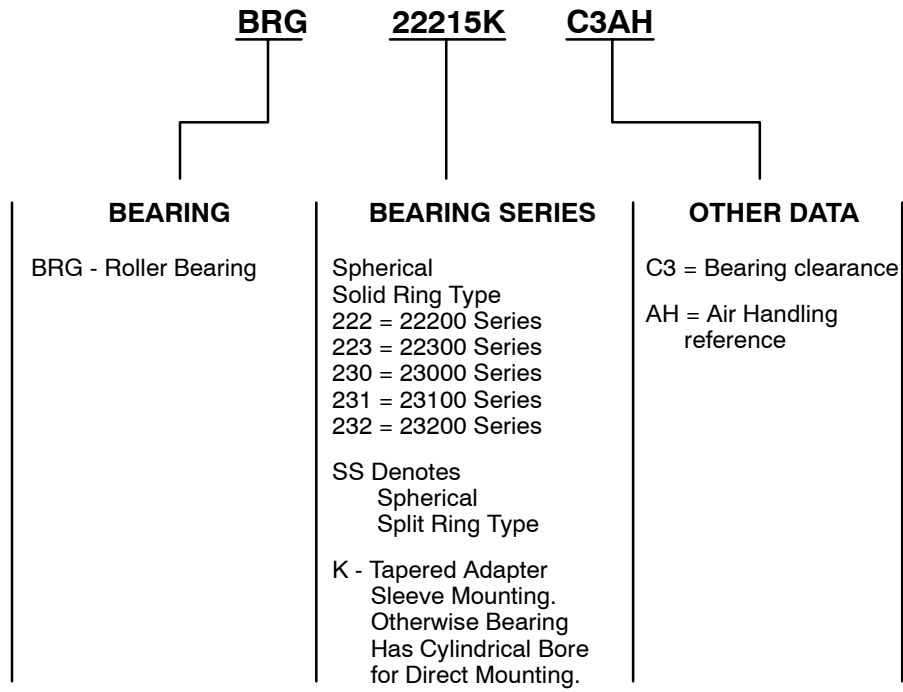


SPECIFICATIONS (INCH) PAGE B9-7	HOW TO ORDER PAGE B9-8	NOMENCLATURE PAGE B9-9	SELECTION/DIMENSIONS PAGE B7-42
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# NOMENCLATURE

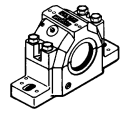


## Bearing

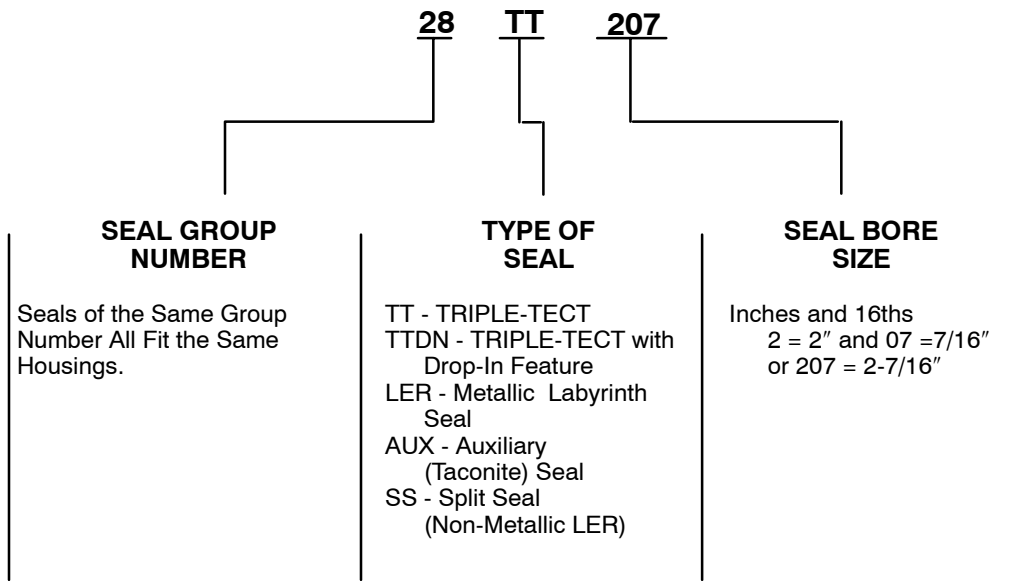


<p>SPECIFICATIONS (INCH) PAGE B9-7</p>	<p>HOW TO ORDER PAGE B9-8</p>	<p>NOMENCLATURE PAGE B9-9</p>	<p>SELECTION/DIMENSIONS PAGE B7-42</p>
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# NOMENCLATURE



## Seals — Inch

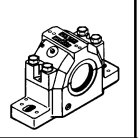


Seal Group Number & Shaft Size	Fits Housing Sizes	Seal Group Number & Shaft Size	Fits Housing Sizes	Seal Group Number & Shaft Size	Fits Housing Sizes
08-107	308, 509 & 609	50-315	522 & 622	78-715	544
10-111	309, 510 & 610	50-400	522 & 622	78-800	544
12-114	310	52-403	222, 322, 524 & 624	80-805	244
12-115	308, 511 & 611	54-407	526 & 626	80-806	238 & 338
14-201	311	54-408	220, 320, 526 & 626	82-812	240
14-202	309	54-409	224 & 324	84-907	052
14-203	513 & 613	56-414	222 & 322	84-908	052
14-204	312	56-415	226, 326, 528 & 628	84-909	244
18-206	310	56-500	528 & 628	90-807	048
20-207	515 & 615	58-503	530 & 630	90-808	048
20-208	515 & 615	58-505	224, 324, 228 & 328	90-815	048
22-207	313	60-507	532 & 632	90-900	048
22-209	311	60-508	532 & 632	92-915	056
22-210	314	62-512	230 & 330	92-1000	056
24-211	516 & 616	62-514	226 & 236	94-1007	056L
24-212	516 & 616	64-515	534 & 634	94-1008	056L
24-213	215 & 315	64-600	534 & 634	96-1015	060, 3160, 3260
26-214	312	64-601	232 & 332	96-1100	060, 3160, 3260
28-215	517 & 617	66-604	228 & 328	98-1107	064
28-300	216, 316, 517 & 617	68-607	234, 334 & 536	98-1108	064
28-301	313	68-608	536	100-1115	064L, 3164, 3264
32-303	217 & 317	70-610	230 & 330	100-1200	064L, 3164, 3264
32-304	314	72-614	236	102-1207	068, 168, 268
34-303	518	72-615	538 & 638	104-1215	072
36-306	218	72-700	232, 332, 538 & 638	104-1300	072
38-307	215 & 315	74-703	540	106-1307	072L, 3172
38-310	216 & 316	74-704	238 & 338	106-1308	072L, 3172
42-315	217 & 317	76-707	234 & 334	108-1315	076, 3176
44-402	218	76-708	544S	108-1400	076, 3176
46-307	520 & 620	76-710	240	110-1500	080
46-308	520 & 620	78-713	236	112-1512	084
50-313	220 & 320				

Note: For bore size interchange see chart on page B9-112.

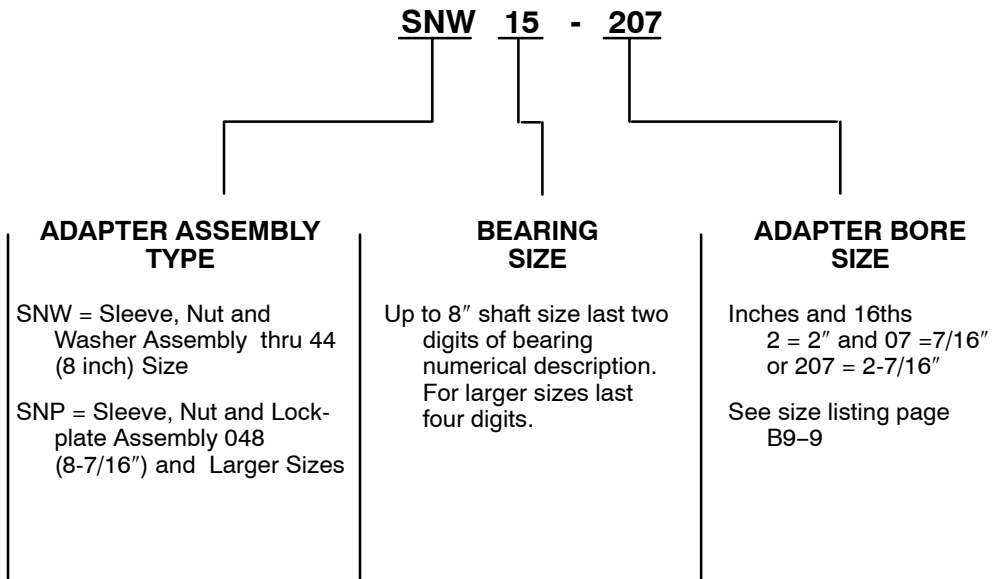
500 SERIES PAGE B9-38	600 SERIES PAGE B9-82	200 SERIES PAGE B9-86	300 SERIES PAGE B9-86
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# NOMENCLATURE

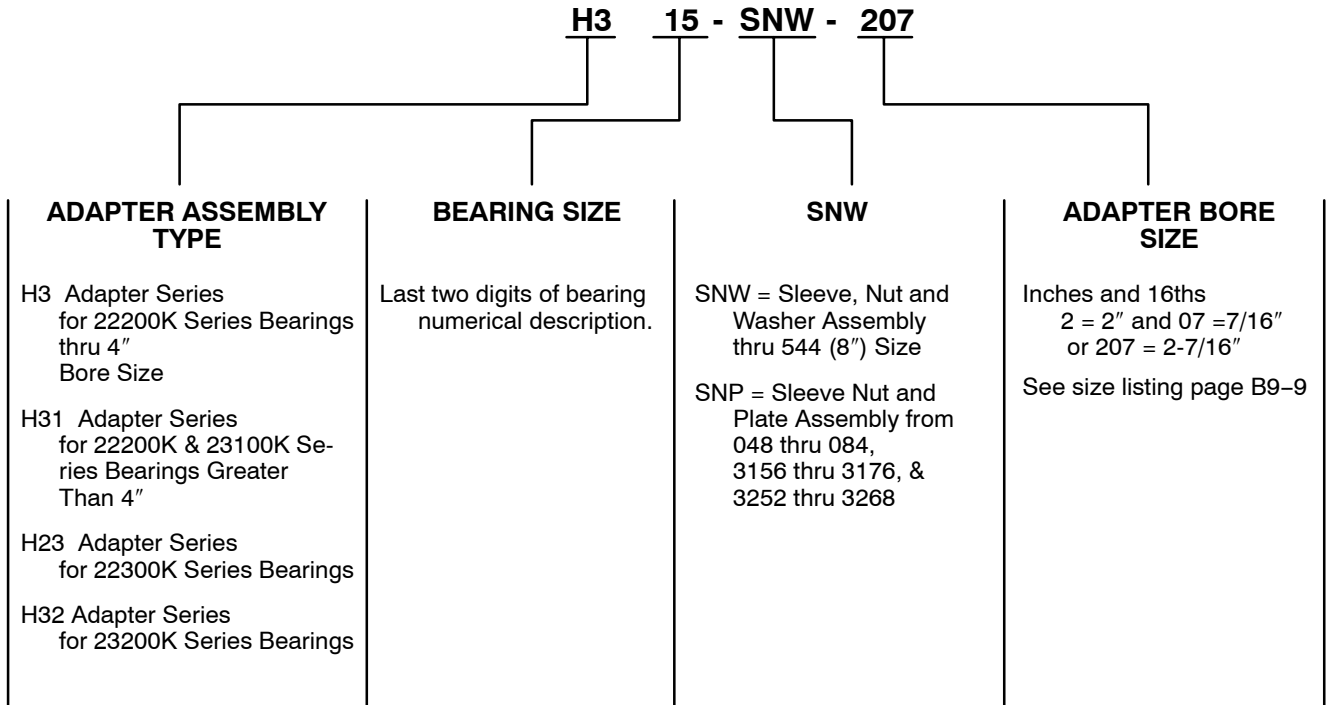


## Adapter Assemblies — Inch

**SNW 15 - 207**

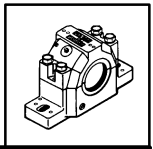


**H3 15 - SNW - 207**



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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

### (USAF 500, 600, 200, 300 SERIES AND USDAF 23000, 23100, 23200)

DODGE UNIFIED 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 UNIFIED 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.

**L<sub>10</sub> Hours Life** — The fatigue 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, page B9-18 for USAF, Table 3, page B9-22 for USDAF), lbs.
- P = Equivalent Radial Load, lbs.

(See Equation 1 on page B9-17 for definition of P)

### GENERAL

**Heavy Service** — For heavy shock loads, frequent shock loads, or severe vibrations, increase the Equivalent Radial Load up to 50% (according to severity of conditions) 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 L<sub>10</sub> life. When substantial radial loads are also present, it is advisable to calculate actual L<sub>10</sub> life to assure that the bearing meets requirements.

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 adaptor mounted bearings. 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 8 (page B9-30) 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 devices such as shear bars are advisable for side or end loading of plummer blocks.

**NOTE:** Spherical bearings require a radial load at least equal to the thrust load for proper operation ( $F_A/F_R = 1$ ). If the thrust load exceeds this limit, consult Application Engineering.

### SHAFT TOLERANCES

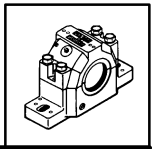
SHAFT SIZE, inches	TOLERANCE, inches
Up to 1-1/2"	+ .000 – .002"
1-9/16 to 2-1/2"	+ .000 – .003"
2-5/8 to 4"	+ .000 – .004"
4-3/16 to 6"	+ .000 – .005"
6-7/16" and above	+ .000 – .006"

\* Use the smaller of this value or the adaptor maximum allowable thrust load listed in Table 1.

500 SERIES PAGE B9-38	600 SERIES PAGE B9-82	200 SERIES PAGE B9-86	300 SERIES PAGE B9-86
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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

### SELECTING BEARINGS SUPPORTING RADIAL LOADS ONLY

1. Define the  $L_{10}$  Life, in Hours, desired.
2. Establish bearing radial load,  $F_R$   
 $F_R = P$  for Pure Radial Load Conditions.  
 $P =$  Equivalent radial load, lbs.  
 (The DODGE program BEST<sup>™</sup> ★ can be used to find application loads.)
3. Establish RPM.

Using the easy selection Table 2 (page B9–19) under the RPM column, find 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.  $L_{10}$  Life = 30,000 Hours
  2. Radial load = 4,000 lbs.
  3. RPM = 950

At the intersection of the 950 RPM column and the 30,000 hours  $L_{10}$  life row, the equivalent radial load of 4555 lbs. exceeds the 4000 lbs. application radial load for shaft size 1-11/16" adapter mount (22310K series bearing) and for shaft size 50 mm direct mount (22310 series bearing). Also, the equivalent radial load of 4070 lbs. exceeds the 4000 lbs. application radial load for shaft size 2-3/16" adapter mount (22213K series bearing) and for shaft size 65 mm direct mount (22213 series bearing). Therefore, the following bearings can be used to meet the application conditions of the above example:

- |                           |                |
|---------------------------|----------------|
| 1. 1-11/16" adapter mount | 22310K bearing |
| 2. 50 mm direct mount     | 22310 bearing  |
| OR                        |                |
| 3. 2-3/16" adapter mount  | 22213K bearing |
| 4. 65 mm direct mount     | 22213 bearing  |

### 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  $F_R$ .

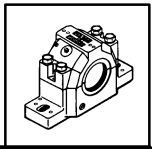
$$C = \left( \frac{L_{10} \times \text{RPM}}{16667} \right)^{0.3} \times P$$

( $P = F_R$  for Pure Radial Conditions)

Since the  $L_{10}$ , RPM, and  $F_R$  are known, solve for  $C$ . Select from the dynamic capacity column on Table 1 (page B9–18) the  $C$  value equal to or greater than the  $C$  value just calculated. The bore size on the far left represents the minimum shaft 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.

★ 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.

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# SELECTION

## UNIFIED Pillow Block – Spherical Roller Bearings

### SELECTING BEARINGS SUPPORTING BOTH 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 (page B9-18) 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.

#### Equation 1

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 1)
- X = Radial load factor (Table 1)
- Y = Thrust load factor (Table 1)

Calculate  $F_A/F_R$  and compare to **e** for the selected bore size. Determine X and Y from Table 1 depending on whether  $F_A/F_R$  is equal to or less than **e**, or  $F_A/F_R$  is great-

er 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  $L_{10}$  life in hours, or it can be compared to the allowable equivalent radial load ratings for the speed and hours life desired in the easy selection table.

### SELECTING BEARINGS SUPPORTING ONLY THRUST LOADS

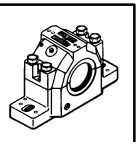
Spherical Roller Bearings generally are not recommended for pure thrust load applications. They will perform satisfactorily under very light pure thrust loads. Consult DODGE Application Engineering (864-297-4800) or FAX (864-281-2317) during the hours of 8:00 a.m. and 5:00 p.m. Eastern Time.

### AXIAL EXPANSION CAPABILITY

Axial expansion capability for UNIFIED SAF 500, 600, 200 and 300 pillow blocks is shown on Table 9 (pg. B9-31). DODGE supplies all UNIFIED pillow block housings with the appropriate stabilizing ring. When the stabilizing ring is used, the pillow block becomes a non-expansion pillow block. Not using the stabilizing ring allows shaft and bearing axial expansion. Proper mounting of the stabilizing ring is shown on housing dimension pages.

SDAF PAGE B9-46	SPLIT-SPHER PAGE B9-32	SAF-XT PAGE B9-72	SAFS PAGE B9-80
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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

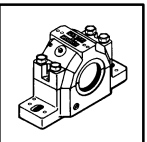
TABLE 1 – RADIAL & THRUST FACTORS FOR USAF SPHERICAL BEARINGS

Shaft Size		Bearing Series	e	F <sub>A</sub> /F <sub>R</sub> ≤ e		F <sub>A</sub> /F <sub>R</sub> > e		Adapter Maximum Allowable Thrust Load Pound †	Dynamic Capacity (C) Pounds	Maximum RPM	
Adapter Mounted Inches	Direct Mount mm			X	Y	X	Y			Grease	Oil
—	40	22308	.36	1	1.9	.67	2.8	—	29,000	4300	5300
1-7/16	—	22209	.26	1	2.6	.67	3.9	698	20,800	5600	7000
		22309	.36	1	1.9	.67	2.8	1092	35,500	3800	4800
1-11/16	—	22210	.24	1	2.8	.67	4.2	775	22,000	5300	6700
		22310	.36	1	1.9	.67	2.8	1348	42,500	3400	4300
1-15/16	—	22211	.23	1	2.9	.67	4.4	927	27,000	4500	5600
		22311	.36	1	1.9	.67	2.8	1672	50,000	3200	4000
		22312	.35	1	1.9	.67	3	—	58,200	2800	3600
2-3/16	—	22213	.24	1	2.8	.67	4.2	1359	38,000	3800	4500
		22313	.34	1	2	.67	3	2104	65,500	2600	3400
		22314	.34	1	2	.67	3	—	72,000	2400	3200
2-7/16 2-1/2	75	22215	.22	1	3.1	.67	4.6	1568	41,500	3400	4300
		22315	.34	1	2	.67	3	2782	83,000	2200	3000
2-11/16 2-3/4	80	22216	.22	1	3.1	.67	4.7	1780	46,500	3200	4000
		22316	.34	1	2	.67	3	3128	93,000	2200	3000
2-15/16 3	85	22217	.22	1	3	.67	4.5	2063	58,500	3000	3800
		22317	.33	1	2	.67	3	3438	102,000	2000	2800
3-3/16	90	22218	.23	1	2.9	.67	4.3	2429	64,000	2600	3400
3-7/16 3-1/2	100	22220	.24	1	2.8	.67	4.2	3102	80,000	2200	3000
		22320	.34	1	2	.67	3	4920	146,000	1700	2200
3-15/16 4	110	22222	.25	1	2.7	.67	4	3931	102,000	2000	2800
		22322	.33	1	2.1	.67	3.1	5934	180,000	1500	1900
4-3/16	120	22224	.25	1	2.7	.67	4	4693	120,000	1900	2400
		22324	.33	1	2.1	.67	3.1	6959	204,000	1400	1800
4-7/16 4-1/2	130	22226	.26	1	2.6	.67	3.9	5610	143,000	1800	2200
		22326	.33	1	2.1	.67	3.1	8152	236,000	1300	1700
4-15/16 5	140	22228	.25	1	2.7	.67	4	6419	166,000	1700	2200
		22328	.34	1	2	.67	3	9628	275,000	1200	1600
5-3/16	150	22230	.25	1	2.7	.67	4	7383	190,000	1600	2000
		22330	.33	1	2	.67	3	10923	310,000	1100	1500
5-7/16 5-1/2	160	22232	.26	1	2.6	.67	3.9	8630	216,000	1500	1800
		22332	.37	1	1.8	.67	2.7	12298	325,000	1000	1400
5-15/16 6	170	22234	.26	1	2.6	.67	3.9	9858	250,000	1300	1700
		22334	.37	1	1.8	.67	2.7	13755	360,000	950	1300
6-7/16 6-1/2	180	22236	.25	1	2.7	.67	4	10437	255,000	1300	1600
		22336	.37	1	1.8	.67	2.7	15291	390,000	900	1100
6-15/16 7	190	22238	.28	1	.4	.67	3.6	11786	270,000	1200	1300
		22338	.37	1	1.8	.67	2.7	16910	415,000	850	1100
7-3/16	200	22240	.29	1	2.3	.67	3.5	13215	300,000	1100	1200
7-1/2 7-15/16 8	220	22244	.29	1	2.3	.67	3.5	16020	365,000	950	1000
8-7/16 8-1/2 8-15/16, 9	—	23048	.25	1	2.7	.67	4.1	14887	260,000	950	1000
9-7/16 9-1/2	—	23052	.26	1	2.6	.67	3.9	18232	340,000	900	950
9-15/16, 10 10-7/16 10-1/2	—	23056	.25	1	2.7	.67	4.1	20000	345,000	850	900

† If the thrust load exceeds adapter maximum allowable thrust load, auxiliary methods of carrying thrust are required.

500 SERIES PAGE B9-38	600 SERIES PAGE B9-82	200 SERIES PAGE B9-86	300 SERIES PAGE B9-86
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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

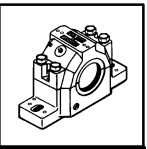
TABLE 2 – SELECTION TABLE FOR UNIFIED SAF PILLOW BLOCKS

Shaft Size		Bearing Series	L <sub>10</sub> Life Hrs.	Allowable Equivalent Radial Load Rating (Lbs.) at Various Revolutions per Minute															
Adapter Mount Inches	Direct Mount mm			50	100	250	500	750	950	1300	1500	1800	2000	2600	3000	3200	3400	4500	5600
—	40	22308	10000	10455	8490	6450	5240	4640	4320	3935	3770	3565	3455	3195	3060	3000	2945	2710	
			<b>30000</b>	<b>7520</b>	<b>6105</b>	<b>4640</b>	<b>3770</b>	<b>3335</b>	<b>3110</b>	<b>2830</b>	<b>2710</b>	<b>2565</b>	<b>2485</b>	<b>2295</b>	<b>2200</b>	<b>2160</b>	<b>2120</b>	<b>1950</b>	
			60000	6105	4960	3770	3060	2710	2525	2295	2200	2085	2020	1865	1790	1755	1720	1585	
1-7/16	—	22209	10000	7495	6090	4625	3755	3325	3100	2820	2700	2560	2480	2290	2195	2155	2115	1945	1820
			<b>30000</b>	<b>5390</b>	<b>4380</b>	<b>3325</b>	<b>2700</b>	<b>2395</b>	<b>2230</b>	<b>2030</b>	<b>1945</b>	<b>1840</b>	<b>1785</b>	<b>1650</b>	<b>1580</b>	<b>1550</b>	<b>1520</b>	<b>1400</b>	<b>1310</b>
			60000	4380	3555	2700	2195	1945	1810	1650	1580	1495	1450	1340	1280	1255	1235	1135	1065
	45	22309	10000	12795	10395	7895	6415	5680	5290	4815	4610	4365	4230	3910	3745	3675	3610	3315	
			<b>30000</b>	<b>9205</b>	<b>7475</b>	<b>5680</b>	<b>4610</b>	<b>4085</b>	<b>3805</b>	<b>3465</b>	<b>3315</b>	<b>3140</b>	<b>3045</b>	<b>2810</b>	<b>2695</b>	<b>2645</b>	<b>2595</b>	<b>2385</b>	
			60000	7475	6070	4610	3745	3315	3090	2810	2695	2550	2470	2285	2190	2145	2110	1940	
1-11/16	—	22210	10000	7930	6440	4895	3975	3520	3280	2985	2860	2705	2620	2425	2320	2275	2235	2055	1925
			<b>30000</b>	<b>5705</b>	<b>4630</b>	<b>3520</b>	<b>2860</b>	<b>2530</b>	<b>2355</b>	<b>2145</b>	<b>2055</b>	<b>1945</b>	<b>1885</b>	<b>1745</b>	<b>1670</b>	<b>1635</b>	<b>1610</b>	<b>1480</b>	<b>1385</b>
			60000	4630	3765	2860	2320	2055	1915	1745	1670	1580	1530	1415	1355	1330	1305	1200	1125
	50	22310	10000	15320	12445	9450	7680	6800	6335	5765	5520	5230	5065	4680	4485	4400	4320		
			<b>30000</b>	<b>11020</b>	<b>8950</b>	<b>6800</b>	<b>5520</b>	<b>4890</b>	<b>4555</b>	<b>4145</b>	<b>3970</b>	<b>3760</b>	<b>3645</b>	<b>3365</b>	<b>3225</b>	<b>3165</b>	<b>3105</b>		
			60000	8950	7270	5520	4485	3970	3700	3365	3225	3055	2960	2735	2620	2570	2525		
1-15/16	—	22211	10000	9730	7905	6005	4875	4320	4025	3660	3510	3320	3220	2975	2850	2795	2745	2525	2365
			<b>30000</b>	<b>7000</b>	<b>5685</b>	<b>4320</b>	<b>3510</b>	<b>3105</b>	<b>2895</b>	<b>2635</b>	<b>2525</b>	<b>2390</b>	<b>2315</b>	<b>2140</b>	<b>2050</b>	<b>2140</b>	<b>1975</b>	<b>1815</b>	<b>1700</b>
			60000	5685	4620	3510	2850	2525	2350	2140	2050	1940	1880	1735	1665	1735	1605	1475	1380
	55	22311	10000	18025	14640	11120	9035	8000	7450	6780	6495	6150	5960	5510	5275	5175	5080		
			<b>30000</b>	<b>12960</b>	<b>10530</b>	<b>8000</b>	<b>6495</b>	<b>5750</b>	<b>5360</b>	<b>4875</b>	<b>4670</b>	<b>4425</b>	<b>4285</b>	<b>3960</b>	<b>3795</b>	<b>3720</b>	<b>3655</b>		
			60000	10560	8550	6495	5275	4670	4350	3960	3795	3595	3480	3220	3080	3025	2970		
—	60	22312	10000	21085	17130	13010	10570	9360	8715	7935	7600	7195	6970	6445	6175	6055	5945		
			<b>30000</b>	<b>15165</b>	<b>12320</b>	<b>9360</b>	<b>7600</b>	<b>6730</b>	<b>6270</b>	<b>5705</b>	<b>5465</b>	<b>5175</b>	<b>5015</b>	<b>4635</b>	<b>4440</b>	<b>4355</b>	<b>4275</b>		
			60000	12320	10005	7600	6175	5465	5090	4635	4440	4205	4075	3765	3605	3535	3475		
2-3/16	—	22213	10000	13695	11125	8450	6865	6080	5660	5155	4935	4675	4530	4185	4010	3935	3860	3550	
			<b>30000</b>	<b>9850</b>	<b>8000</b>	<b>6080</b>	<b>4935</b>	<b>4370</b>	<b>4070</b>	<b>3705</b>	<b>3550</b>	<b>3360</b>	<b>3255</b>	<b>3010</b>	<b>2885</b>	<b>2830</b>	<b>2780</b>	<b>2555</b>	
			60000	8000	6500	4935	4010	3550	3310	3010	2885	27330	2645	2445	2340	2300	2255	2075	
	65	22313	10000	23610	19175	14570	11835	10480	9760	8885	8510	8055	7805	7215	6910	6780	6660		
			<b>30000</b>	<b>16980</b>	<b>13795</b>	<b>10480</b>	<b>8510</b>	<b>7535</b>	<b>7020</b>	<b>6390</b>	<b>6120</b>	<b>5795</b>	<b>5615</b>	<b>5190</b>	<b>4970</b>	<b>4875</b>	<b>4790</b>		
			60000	13795	11205	8510	6910	6120	5700	5190	4970	4705	4560	4215	4040	3960	3890		
—	70	22314	10000	25955	21080	16015	13005	11515	10730	9765	9355	8855	8580	7930	7600	7455			
			<b>30000</b>	<b>18665</b>	<b>15160</b>	<b>11515</b>	<b>9355</b>	<b>8285</b>	<b>7715</b>	<b>7025</b>	<b>6730</b>	<b>6370</b>	<b>6170</b>	<b>5705</b>	<b>5465</b>	<b>5360</b>			
			60000	15160	12315	9355	7600	6730	6265	5705	5465	5175	5015	4635	4440	4355			
2-7/16 2-1/2	75	22215	10000	14960	12150	9230	7495	6640	6185	5630	5390	5105	4945	4570	4380	4295	4220		
			<b>30000</b>	<b>10760</b>	<b>8740</b>	<b>6640</b>	<b>5390</b>	<b>4775</b>	<b>4445</b>	<b>4050</b>	<b>3880</b>	<b>3670</b>	<b>3555</b>	<b>3290</b>	<b>3150</b>	<b>3090</b>	<b>3035</b>		
			60000	8740	7100	5390	4380	3880	3610	3290	3150	2980	2890	2670	2560	2510	2465		
	75	22315	10000	29920	24300	18460	14995	13275	12370	11255	10785	10210	9890	9145	8760				
			<b>30000</b>	<b>21520</b>	<b>17480</b>	<b>13275</b>	<b>10785</b>	<b>9550</b>	<b>8895</b>	<b>8095</b>	<b>7755</b>	<b>7345</b>	<b>7115</b>	<b>6575</b>	<b>6300</b>				
			60000	17480	14195	10785	8760	7755	7225	6575	6300	5965	5780	5340	5115				
2-11/16 2-3/4	80	22216	10000	16760	13615	10340	8400	7440	6930	6305	6040	5720	5540	5120	4905	4815	4725		
			<b>30000</b>	<b>12055</b>	<b>9790</b>	<b>7440</b>	<b>6040</b>	<b>5350</b>	<b>4985</b>	<b>4535</b>	<b>4355</b>	<b>4115</b>	<b>3985</b>	<b>3685</b>	<b>3530</b>	<b>3460</b>	<b>3400</b>		
			60000	9790	7955	6040	4905	4356	4050	3685	3530	3340	3235	2990	2865	2810	2760		
	80	22316	10000	33525	27230	20685	16800	14875	13860	12615	12085	11440	11085	10245	9815				
			<b>30000</b>	<b>24110</b>	<b>19585</b>	<b>14875</b>	<b>12085</b>	<b>10700</b>	<b>9965</b>	<b>9070</b>	<b>8690</b>	<b>8230</b>	<b>7970</b>	<b>7370</b>	<b>7060</b>				
			60000	19585	15905	12085	9815	8690	8095	7370	7060	6685	6475	5985	5735				

NOTE: Dark shaded areas require circulating oil.  
Light shaded areas require static oil.

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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

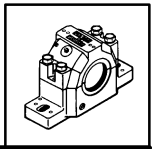
TABLE 2 (Continued) – SELECTION TABLE FOR UNIFIED SAF PILLOW BLOCKS

Shaft Size		Bearing Series	L <sub>10</sub> Life Hrs.	Allowable Equivalent Radial Load Rating (Lbs.) at Various Revolutions per Minute																
Adapter Mount Inches	Direct Mount mm			50	100	250	500	750	950	1300	1500	1800	2000	2600	3000	3200	3400	4500	5600	
2-15/16 3	85	22217	10000	21085	17130	13010	10570	9360	8715	7935	7600	7195	6970	6445	6175	6055	5945			
			30000	15165	12320	9360	7600	6730	6270	5705	5465	5175	5015	4635	4440	4355	4275			
			60000	12320	10005	7600	6175	5465	5090	4635	4440	4205	4075	3765	3605	3535	3475			
	85	22317	10000	36765	29865	22685	18425	16315	15200	13835	13255	12550	12155	11235						
			30000	26445	21480	16315	13255	11735	10930	9950	9530	9025	8745	8080						
			60000	21480	17445	13255	10765	9530	8880	8080	7740	7330	7100	6565						
3-3/16	90	22218	10000	23070	18740	14235	11560	10240	9535	8680	8315	7875	7630	7050	6755	6625	6525			
			30000	16590	13475	10240	8315	7365	6860	6245	5980	5660	5485	5070	4860	4765	4680			
			60000	13475	10945	8315	6755	5980	5570	5070	4860	4600	4455	4120	3945	3870	3800			
3-7/16 3-1/2	100	22220	10000	28835	23425	17795	14450	12795	11920	10850	10395	9840	9535	8815	8445					
			30000	20740	16845	12795	10395	9205	8575	7805	7475	7080	6860	6340	6070					
			60000	16845	13685	10395	8445	7475	6965	6340	6070	5750	5520	5150	4930					
	100	22320	10000	52630	42745	32475	23675	23355	21755	19800	18970	17960	17400							
			30000	37850	30745	23355	18970	16795	15645	14240	12915	12915	12515							
			60000	30745	24970	18970	15410	13645	12710	11570	10490	10490	10165							
3-15/16 4	110	22222	10000	36765	29865	22685	18425	16315	15200	13835	13255	12550	12155	11235						
			30000	26445	21480	16315	13255	11735	10930	9950	9530	9025	8745	8080						
			60000	21480	17445	13255	10765	9530	8880	8080	7740	7330	7100	6565						
	110	22322	10000	64885	52700	40035	32520	28795	26825	24415	23390	22145								
			30000	46665	37905	28795	23390	20710	19290	17560	16820	15925								
			60000	37905	30790	23390	18995	16820	15670	14260	13665	12935								
4-3/16	120	22224	10000	43255	35135	26690	21680	19195	17880	16275	15590	14760	14305							
			30000	31110	25270	19195	15590	13805	12860	11705	11215	10615	10285							
			60000	25270	20525	15590	12665	11215	10445	9510	9110	8625	8355							
	120	22324	10000	73535	59730	45375	36855	32635	30400	27670	26505	25095								
			30000	52890	42960	32635	26505	23470	21865	19900	19065	18050								
			60000	42960	34895	26505	21530	19065	17760	16165	15485	14660								
4-7/16 4-1/2	130	22226	10000	51545	41870	31805	25835	22875	21310	19395	18580	17590	17045							
			30000	37075	30115	22875	18580	16450	15325	13950	13365	12650	12260							
			60000	30115	24460	18580	15090	13365	12450	11330	10855	10275	9955							
	130	22326	10000	85070	69100	52490	42635	37750	35170	32010	30665									
			30000	61185	49695	37750	30665	27150	25295	23020	22055									
			60000	49695	40365	30665	24905	22055	20545	18700	17915									
4-15/16 5	14	22228	10000	59835	48605	36920	29990	26555	24735	22515	21570	20420	19785							
			30000	43035	34955	26555	21570	19100	17790	16195	15515	14685	14230							
			60000	34955	28395	21570	17520	15515	14450	13155	12600	11930	11560							
	140	22328	10000	99130	80515	61165	49680	43990	40980	37300	35730									
			30000	71295	57910	43990	35730	31640	29475	26825	25700									
			60000	57910	47035	35730	29025	25700	23940	21790	20875									
5-3/16	150	22230	10000	68490	55630	42260	34325	30395	28315	25770	24685	23375	22645							
			30000	49260	40010	30395	24685	21860	20365	18535	17755	16810	16286							
			60000	40010	32500	24685	20050	17755	16540	15055	14420	3655	13230							
	150	22330	10000	11745	90765	68950	56005	49590	46195	42045	40280									
			30000	80370	65280	49590	40280	35665	33225	30240	28970									
			60000	65280	53025	40280	32715	28970	26985	24565	23530									

NOTE: Dark shaded areas require circulating oil.  
Light shaded areas require static oil.

500 SERIES PAGE B9-38	600 SERIES PAGE B9-82	200 SERIES PAGE B9-86	300 SERIES PAGE B9-86
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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

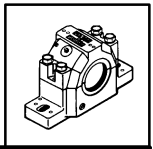
TABLE 2 (Continued) – SELECTION TABLE FOR UNIFIED SAF PILLOW BLOCKS

Shaft Size		Bearing Series	L <sub>10</sub> Life Hrs.	Allowable Equivalent Radial Load Rating (Lbs.) at Various Revolutions per Minute															
Adapter Mount Inches	Direct Mount mm			50	100	250	500	750	950	1300	1500	1800	2000	2600	3000	3200	3400	4500	5600
5-7/16 5-1/2	160	22232	10000	77860	63240	48040	39020	34555	32185	29295	28065	26570							
			30000	56000	45485	34555	28065	24850	23150	21070	20185	19110							
			60000	45485	36945	28065	22795	20185	18805	17115	16395	15525							
	160	22332	10000	117150	95155	72285	58715	51990	48430	44080									
			30000	84260	68840	51990	42230	37390	34830	31705									
			60000	68440	55590	42230	34300	30370	28290	25750									
5-15/16 6	170	22234	10000	90115	73195	55605	45165	39990	37255	33910	32485								
			30000	64815	52645	39990	32485	28765	26795	24390	23365								
			60000	52645	42760	32485	26385	23365	21765	19810	18975								
	170	22334	10000	129770	105405	80070	65040	57590	53645	48830									
			30000	93330	75810	57590	46775	41420	38585	35120									
			60000	75810	61575	46775	37995	33645	31340	28525									
6-7/16 6-1/2	180	22236	10000	91920	74660	56715	46070	40790	38000	34585	33135								
			30000	66110	53700	40790	33135	29340	27330	24875	23830								
			60000	53700	43615	33135	26910	23830	22200	20205	19355								
6-15/16 7	190	22238	10000	97325	79055	60055	48780	43190	40235	36620									
			30000	70000	56855	43190	35080	31065	28935	26340									
			60000	56855	46180	35080	28495	25230	23505	21395									
	190	22338	10000	149595	121510	92305	74975	66385	61840										
			30000	107590	87390	66385	53925	47745	44480										
			60000	87390	70985	53925	43800	38785	36125										
7-3/16	200	22240	10000	108140	87835	66725	54200	47990	44705										
			30000	77775	63175	47990	38980	34515	32155										
			60000	63175	51315	38980	31660	28035	26115										
7-1/2 7-15/16 8	220	22244	10000	131570	106870	81185	65940	58390	54390										
			30000	94630	76860	58390	47425	41995	39120										
			60000	76860	62430	47425	38520	34110	31775										
8-7/16 8-1/2 8-15/16, 9	23048	23048	10000	93720	76125	57830	46970	41590	38745										
			30000	67405	54750	41590	33785	29915	27865										
			60000	54750	44470	33785	27440	24295	22635										
9-7/16 9-1/2	23052	23052	10000	122560	99550	75625	61425	54390	50665										
			30000	88145	71595	54390	44180	39120	36440										
			60000	71595	58155	35885	35885	31775	29600										
9-15/16 10 10-7/16 10-1/2	23056	23056	10000	124360	101010	76735	62330	55190											
			30000	89445	72650	55190	44825	39695											
			60000	72650	59010	44825	36410	32240											

**NOTE:** Dark shaded areas require circulating oil.  
Light shaded areas require static oil.

SPECIFICATIONS (INCH) PAGE B9-7	HOW TO ORDER PAGE B9-8	NOMENCLATURE PAGE B9-9	SELECTION/DIMENSIONS PAGE B9-15
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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

**TABLE 3 – RADIAL & THRUST FACTORS FOR USDAF SPHERICAL BEARINGS 23000K, 23100K, 23200K**

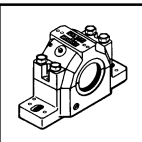
Shaft Size (in.)	Bearing Series	e	FA/FR ≤ e		FA/FR > e		Adapter Maximum Allowable Thrust Load, lbs.*	Dynamic Capacity (C), lbs.	Max. RPM	
			X	Y	X	Y			Grease	Oil
10-15/16,11	23060K	0.25	1	2.7	0.67	4	23875	440,000	630	800
11-7/16,11-1/2,11-15/16,12	23064K	0.25	1	2.7	0.67	4.1	26114	455,000	600	750
12-7/16,12-1/2	23068K	0.25	1	2.7	0.67	4	30498	530,000	560	700
12-15/16,13,13-7/16,13-1/2	23072K	0.25	1	2.7	0.67	4.1	32535	550,000	530	670
13-15/16,14	23076K	0.24	1	2.8	0.67	4.2	34598	570,000	500	630
15	23080K	0.24	1	2.8	0.67	4.1	39926	680,000	450	560
15-3/4	23084K	0.24	1	2.8	0.67	4.2	42489	710,000	450	560
9-7/16, 9-1/2	23152K	0.33	1	2	0.67	3	19,985	490,000	670	850
10-7/16,10-1/2	23156K	0.32	1	2.1	0.67	3.2	27571	530,000	630	800
10-15/16,11	23160K	0.33	1	2.1	0.67	3.1	32373	600,000	600	750
11-15/16,12	23164K	0.34	1	2	0.67	2.9	37984	720,000	530	670
12-7/16,12-1/2	23168K	0.34	1	2	0.67	2.9	43568	830,000	500	630
13-7/16,13-1/2	23172K	0.33	1	2.1	0.67	3.1	45617	850,000	480	600
13-15/16,14	23176K	0.32	1	2.1	0.67	3.2	49719	915,000	450	560
8-15/16,9	23248K	0.37	1	1.8	0.67	2.7	25,891	560,000	700	900
9-7/16,9-1/2	23252K	0.37	1	1.8	0.67	2.7	30511	655,000	630	800
10-7/16,10-1/2	23256K	0.36	1	1.9	0.67	2.8	33236	680,000	600	750
10-7/16,11	23260K	0.37	1	1.8	0.67	2.7	38847	780,000	560	700
11-15/16,12	23264K	0.37	1	1.8	0.67	2.7	44890	865,000	530	670
12-7/16,12-1/2	23268K	0.38	1	1.8	0.67	2.7	51365	1,000,000	480	600

\* If the thrust load exceeds adapter maximum allowable thrust load, auxiliary methods of carrying thrust are required.

500 SERIES PAGE B9-38	600 SERIES PAGE B9-82	200 SERIES PAGE B9-86	300 SERIES PAGE B9-86
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# SELECTION



## UNIFIED Pillow Block – Spherical Roller Bearings

**TABLE 4 – SELECTION TABLE FOR USDAF PILLOW BLOCKS 23000K SERIES**

SHAFT SIZE	BEARING SERIES	L10 LIFE HOURS	ALLOWABLE EQUIVALENT RADIAL LOAD RATING(LBS.)AT VARIOUS RPM. *												
			50	100	150	200	250	300	400	500	550	600	650	700	750
10-15/16, 11	23060K	50,000	97865	79491	70387	64567	60386	57172	52445	49049	47666	46438	45336	44339	43431
		80,000	84995	69037	61130	56076	52445	49653	45548	42598	41397	40331	39374	38508	37719
		100,000	79491	64567	57172	52445	49049	46438	42598	39840	38717	37719	36824	36015	35277
11-7/16,11-1/2 11-15/16,12	23064K	50,000	101201	82201	72786	66768	62445	59121	54233	50721	49291	48021	46882	45851	44912
		80,000	87892	71391	63214	57987	54233	51346	47100	44050	42809	41706	40716	39821	39005
		100,000	82201	66768	59121	54233	50721	46021	44050	41198	40037	39005	38080	37243	36480
12-7/16,12-1/2	23068K	50,000	117883	95751	84784	77774	72738	68866	63172	59081	57416	55937	54609	53409	
		80,000	102380	83158	73634	67546	63172	59809	54864	51312	49665	48580	47428	46385	
		100,000	95751	77774	68866	63172	59081	55937	51312	47989	46636	45435	44357	43381	
12-15/16,13 13-7/16,13-1/2	23072K	50,000	122331	99364	87984	80709	75483	71465	65556	61311	59583	58048	56670		
		80,000	106243	86296	76413	70094	65556	62066	56934	53248	51747	50414	49217		
		100,000	102977	83643	71465	65556	61311	56048	53248	49800	48396	47149	46031		
13-15/16, 14	23076K	50,000	126780	102977	91183	83643	78227	74064	67940	63540	61749	60158			
		80,000	110107	89435	79191	72643	67940	64323	59005	55184	53629	52247			
		100,000	102977	83643	74064	67940	63540	60158	55184	51611	50156	48864			
15	23080K	50,000	151246	122850	108780	99785	93324	88357	81051	75803	73666				
		80,000	131355	106694	94474	86662	81051	76737	70392	65834	63978				
		100,000	122850	99785	88357	81051	75803	71768	65834	61571	59835				
15-3/4	23084K	50,000	157919	128270	113579	104187	97441	92255	84627	79147	76916				
		80,000	137151	111401	98642	90486	84627	80122	73497	66736	66601				
		100,000	128270	104187	92255	84627	79147	74934	68738	64287	62475				

### 23100K SERIES

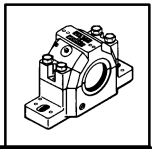
9-7/16, 9-1/2	23152K	50,000	108992	88529	78390	71908	67252	63672	58407	54625	53086	51718	50491	49381	48369
		80,000	94658	76886	68080	62451	58407	55299	50726	47442	46104	44916	43851	42886	42008
		100,000	88529	71908	63672	58407	54625	51718	47442	44370	43119	42008	41011	40110	39288
10-7/16, 10-1/2	23156K	50,000	117883	95751	84784	77774	72738	68866	63172	59081	57416	55937	54609	53409	52315
		80,000	102380	83158	73634	67546	63172	59809	54864	51312	49865	48580	47426	46385	45435
		100,000	95751	77774	68866	63172	59061	55937	51312	47989	46636	45435	44357	43381	42493
10-15/16, 11	23160K	50,000	133452	108397	95982	88046	82345	77962	71515	66885	64999	63325	61822	60463	59224
		80,000	115902	94142	83359	76467	71515	67709	62110	58089	56451	54997	53692	52511	51436
		100,000	108397	88046	77962	71515	66885	63325	58089	54327	52796	51436	50215	49111	46105
11-15/16,12	23164K	50,000	160143	130076	115178	105655	98814	93554	85818	80262	77999	75989	74186		
		60,000	139082	112970	100031	91760	85818	81251	74532	69706	67741	65996	64430		
		100,000	130076	105655	93554	85818	80262	75989	69706	65193	63355	61723	60258		
12-7/16,12-1/2	23168K	50,000	184609	149949	132775	121797	113910	107847	98930	92524	89916	87599			
		80,000	160331	130229	115314	105779	98930	93664	85919	80356	78091	76079			
		100,000	149949	121797	107847	96930	92524	87599	80356	75153	73034	71152			
13-7/16, 13-1/2	23172K	50,000	189058	153562	135975	124732	116655	110446	101313	94753	92062	89710			
		80,000	164194	133367	118092	108326	101313	95921	87990	82292	79972	77912			
		100,000	153562	124732	110446	101313	94753	87910	82292	76964	74794	72667			
13-15/16,14	23176K	50,000	203515	165306	146373	134270	125576	118892	109061	101999	99124				
		80,000	176750	143566	127123	116612	109061	103256	94718	88585	86086				
		100,000	165306	134270	118892	109061	101999	96570	88585	82649	80514				

### 23200K SERIES

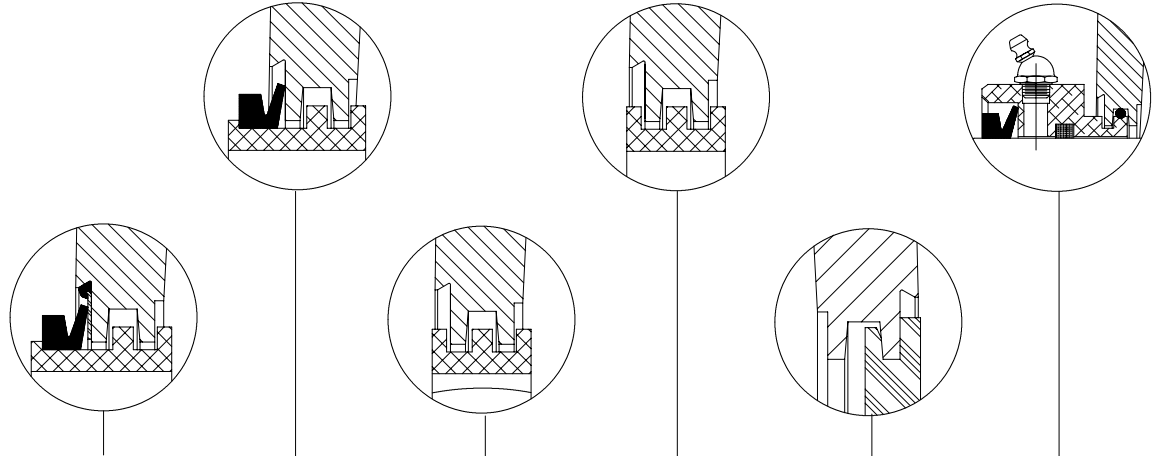
8-5/16, 9	2324K	50,000	124562	101176	89588	82180	76859	72768	66751	62429	60669	59106	57704	56435	55279
		80,000	108181	87870	77806	71373	66751	63198	57973	54219	52691	51333	50115	49013	48009
		100,000	101176	82180	72768	66751	62429	59106	54219	50708	49279	48009	46870	45839	44900
9-7/16,9-1/2	23252K	50,000	145686	118333	104780	96117	89893	85108	78071	73016	70958	69129	67469	66005	64653
		60,000	126526	102771	91001	83476	78071	73915	67804	63413	61626	60036	58613	57325	56150
		100,000	116333	96117	85108	76071	73016	69129	63413	59307	57635	56150	54816	53613	52515
10-7/16,10-1/2	23256K	50,000	151246	122850	106780	99765	93324	86357	81051	75603	73666	71768	70065	68524	67121
		80,000	131355	106694	94474	86662	81051	76737	70392	65834	63978	62330	60651	59513	58294
		100,000	122850	99785	86357	81051	75803	71768	65634	61571	59635	58294	56910	55659	54519
10-15/16,11	23260K	50,000	173488	140916	124777	114459	107048	101350	92970	86950	84499	82322	80369	76602	
		60,000	150672	122384	106377	99407	92970	86821	80743	75515	73366	71496	69999	66265	
		100,000	140916	114459	101350	92970	86950	82322	75515	70625	68635	66666	65280	63844	
11-15/16,12	23264K	50,000	192394	156272	138374	126933	118714	112395	103101	96425	93707	91293	89127		
		80,000	167092	135721	120176	110240	103101	97614	91614	83744	81364	79267	77406		
		100,000	156272	126933	112395	103101	96425	91293	83744	78322	76114	74153	72393		
12-7/16 12-1/2	23266K	50,000	222421	180662	159970	146743	137241	129936	119192	111474	108332	105541			
		80,000	193170	158903	138932	127445	119192	112848	103517	96614	94085	91681			
		100,000	180662	146743	129936	119192	111474	105541	96614	90545	87993	85726			

\* Oil lubrication to the right of the heavy line.

SDAF PAGE B9-46	SPLIT-SPHER PAGE B9-32	SAF-XT PAGE B9-72	SAFS PAGE B9-80
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## UNIFIED SAF Bearing Seals



ENVIRONMENT/ APPLICATION	DROP IN TRIPLE-TECT SEAL	TRIPLE-TECT LABYRINTH & FACE RUBBING SEAL	SPLIT LER LABYRINTH SEAL	LER LABYRINTH SEAL	END COVER	AUXILIARY TACONITE SEAL
	USAF/USN SAF-XT	USAF/USN SAF-XT	USAF/USN SAF-XT	USAF/USN SAF-XT	USAF/USN SAF-XT	USAF/USN SAF-XT
Dusty/Dirty	+	+	▲	▲	++	+
Wet/Moisture Laden	+	+	○	○	++	+
High Pressure Power Washdown	▲	▲	○	○	++	+
★ High Temperature	○	○	○	+	▲	○
● High Speed	▲	▲	▲	+	NS	○
Chemical	▲	▲	○	○	▲	▲
Misalignment	+	+	+	+	NS	▲

- ++ VERY GOOD
- + GOOD
- ▲ QUESTIONABLE (DEPENDS ON CONDITION;  
CONSULT DODGE ENGINEERING)
- NOT RECOMMENDED
- NS- NOT SEAL LIMITED

- NOTES:
- ★ HIGH TEMPERATURE IS ABOVE 200°F
  - CONSIDERATION OF HIGH SPEED CAN BE A FUNCTION OF TYPE AND BEARING DESIGN

### DROP-IN TRIPLE TECT SEAL

The patented Drop-In TRIPLE-TECT Seal has all the sealing features of the standard TRIPLE-TECT except it is pre-assembled at the factory for quick and easy field assembly. The Drop-In TRIPLE-TECT Seal assembly consists of a seal ring, v-ring seal and stainless metal seal ring, v-ring seal and stainless metal seal ring with rubber bead.

While lowering the shaft bearing and seal assembly into the housing base, the stainless metal seal with rubber bead fits in the outboard “v-shaped” housing groove.

The stainless metal seal gives superior sealing surface to the v-ring and positions the v-ring for easy cap to base housing assembly. (See Figure A).

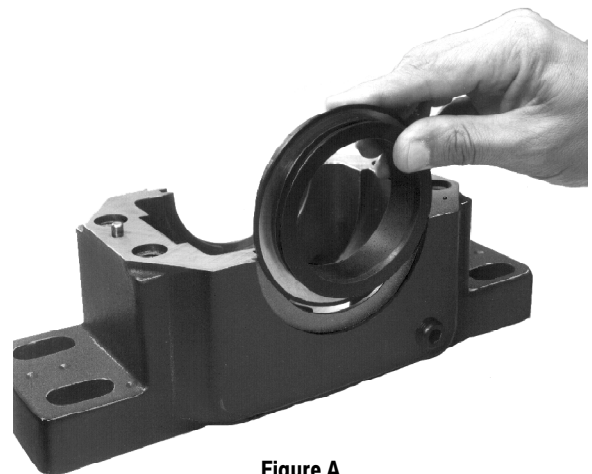
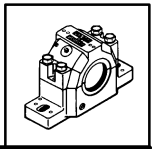


Figure A

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# SELECTION



## UNIFIED SAF Bearing Seals

### SELECTING LUBRICATION

DODGE UNIFIED pillow blocks are lubricated by the user at installation. DODGE UNIFIED bearings are specially designed to handle either grease or oil lubrication.

#### GREASE LUBRICATION:

DODGE UNIFIED bearings are designed to meet the rigorous demands of dirty, dusty or wet environments. In order to properly protect bearings during installation, pack the bearing insert 100% full of grease immediately after properly mounting the bearing on the shaft. If the RPM of the application falls between 20% and 80% of maximum RPM (Table 1, pg. B9-18 or Table 3, pg. B9-22), pack the lower half of the housing one-third to one-half full. If the RPM of the application is less than 20% of maximum RPM, pack bearing housing cavity 100% full. If the RPM exceeds 80% of maximum RPM, do not add grease in the lower half of the housing or in the cap.

At each re-greasing cycle, for applications up to 80% of maximum RPM, slowly add grease until fresh grease is seen purging at the seals. Re-greasing should be done while running. Remote re-greasing lines should be added to avoid endangering personnel. If the RPM is greater than 80% of maximum RPM, add 4 strokes of a handgun at each re-greasing cycle for bores up to 2". For bores

greater than 2" up to 5", add 8 strokes of a handgun at each re-greasing cycle. For bores greater than 5" up to 10-1/2", add 16 strokes of a handgun at each re-greasing cycle. For bores greater than 10-1/2" and up to 12-1/2" add 32 strokes of a handgun at each re-greasing cycle. For bores greater than 12-1/2" up to 15-3/4" add 64 strokes of a handgun at each regreasing cycle. For units running above 80% of maximum RPM, running temperature should be monitored. If a drastic change in running temperature is noted, DODGE recommends removing the used grease completely and recharging with fresh grease per the above instructions. For warning before catastrophic failure, see DODGE Temperature Monitor Package on page B9-113

Select a grease with a viscosity at an operating temperature which will provide full film lubrication (see Table 5 below). Use a 50°F to 100°F increase in bearing temperature above ambient, depending on RPM and load. Use Table 6 (pg. B9-26) as a general guide for re-greasing the bearings. A small amount of grease at frequent intervals is preferable to a large amount of grease at infrequent intervals. For special applications involving high speeds, high loads, or very low speeds, consult DODGE Application Engineering (864-297-4800 or FAX 864-281-2317) during the hours of 8:00 a.m. and 5:00 p.m. Eastern Time.

**TABLE 5 – VISCOSITY OF OIL, OR OIL IN GREASE**

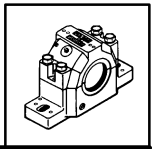
DN Δ	Viscosity for Loads Up To 18% of Dyn. Cap.* (SUS @ Oper. Temp.)	CST	DN Δ	Viscosity for Loads Up To 18% of Dyn. Cap.* (SUS. @ Oper. Temp.)	CST
100	3500	700	1400	625	140
200	3150	680	1600	525	120
300	2750	590	1800	450	95
400	2375	500	2000	400	85
500	2000	460	3000	300	63
600	1750	360	4000	200	43
700	1500	320	5000	150	32
800	1300	280	6000	130	28
900	1075	220	7000	110	22
1000	900	140	8000	100	20

Δ DN = Bore Diameter (ins.) x RPM

\* For loads above 18% of dynamic capacity, an EP grease with the viscosity selected from above is recommended.

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# SELECTION



## UNIFIED SAF Bearing Seals

### OIL LUBRICATION:

DODGE UNIFIED bearings are designed to accept oil lubrication. Oil lubrication is normally required at high speeds as well as high loads, or whenever heat from an external source is flowing into the bearing. Oil lubrication may be static or circulating. With static oil, fill the bearing cavity with oil up to the center line of the lowest roller. This height is identified as W and is shown on pages B9-51, B9-53, B9-55, B9-57, B9-90, and B9-100. Mount an oil sight gauge in the drilled and tapped hole on the side of the pillow block for visual indication of this level. The oil

level may drop or rise during operation depending on the direction of rotation of the bearing. Both the static oil level and the running oil level should be marked on the oil sight gauge and properly identified. Oil should be replaced at least semiannually. For circulating oil, the oil flow rate and size of factory drilled and tapped return drains are shown in Table 7, up to 8" bore. The viscosity of the oil should be selected based on the guidelines shown on Table 5 (pg. B9-25). If the RPM of the application is within the specifications of this catalog, and if the temperature of the bearings is 80°F to 100°F or greater above ambient, a lighter viscosity oil may be required.

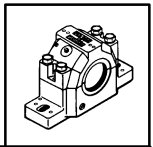
**TABLE 6 – RE-GREASING INTERVALS, Months\*, Based on 12 Hours per Day, 150°F Max.**

Shaft Size		RPM								
Adapter Mtg. (in.)	Direct Mtg. (mm)	250	500	750	100	1250	1500	2000	2500	>3000
1-7/16 - 1-15/16	40-55	8	6	4	3	2	1	.5	.5	.25
2-3/16	60-65	7	5	3	2	1	1	.5	.25	.25
2-7/16 - 3	70-85	6	4	3	2	1	.5	.25	.25	
3-3/16 - 3-1/2	90-100	5	3	2	1	.5	.5	.25		
3-15/16 - 4-1/2	110-130	4	3	2	1	.5	.25			
4-15/16 - 5-1/2	140-160	3	2	1	.5	.25				
5-15/16 - 7-3/16	170-200	2	1	1	.5					
7-1/2 - 9-1/2	220	1	1	.5						
9-15/16 - 10-1/2	—	1	.5							
10-15/16 - 12-1/2	—	1	.5							
12-15/16 - 15-3/4	—	.5	.25							

\* For continuous operations, 24 hours per day, decrease greasing interval by 50%.

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# SELECTION



## UNIFIED SAF Bearing Seals

**TABLE 7 – CIRCULATING OIL FLOW RATES, DRAIN HOLE SIZES, THERMOCOUPLE LOCATION AND VIBRATION SENSOR LOCATION**

Shaft Size				USAF Housing Designation	Circulating Oil Flow*		Static Oil Level Inches W**	Drain Hole, Dry Sump***			Thermocouple Hole		Vibration ▲ Sensor Hole		
500 Adptr. Mntg. Inches	200 Drct. Mntg. mm	600 Adptr. Mntg. Inches	300 Drct. Mntg. mm		Amount Sufficient for Normal Lubrication	Maximum Amount for Heat Dissipation Due to External Heat Source		Location Inches			Location Inches	Wall Thck. Inches	Location Inches	Wall Thck. Inches	
								Gal./Min.	Gal./Min.	500 & 200 Series					600 & 300 Series
1-7/16	—	—	—		509 — — —	.0025		.07	59/64	—	1-3/32	5/8	1/8-27	1/4	3/8
1-11/16	—	—	40	510 — — 308	.0030	.09	1-5/64	1-3/16	1-1/4	1-3/16	1/8-27	17/64	19/64	1-9/64	31/32
1-15/16	—	1-7/16	45	511 — 609 309	.0040	.10	1-5/32	1-9/32	1-5/16	53/64	1/8-27	9/32	17/32	1-57/64	1-1/8
—	—	1-11/16	50	— — 610 310	.0045	.12	—	1-3/8							
2-3/16	—	1-15/16	55	513 — 611 311	.0050	.15	1-7/64	1-7/16	1-21/32	25/32	1/8-27	11/32	37/64	2-1/64	1-1/8
2-7/16, 2-1/2	75	—	60	515 215 — 312	.0060	.175	1-5/32	1-5/16	1-25/32	7/8	1/4-18	23/64	5/8	2-1/4	1-3/16
2-11/16, 2-3/4	80	2-3/16	65	516 216 613 313	.0065	.195	1-1/4	1-13/32	1-31/32	61/64	1/4-18	5/16	1/2	2-9/32	1-33/64
2-15/16, 3	85	—	70	517 217 — 314	.0075	.20	1-3/8	1-15/32	2-1/8	1-1/16	3/8-18	13/32	43/64	2-1/2	1-7/16
3-3/16	90	2-7/16, 2-1/2	75	518 218 615 315	.0080	.25	1-15/32	1-19/32	2-1/4	1-1/8	3/8-18	7/16	39/64	2-23/32	1-29/64
—	—	2-11/16, 2-3/4	80	— — 616 316	.010	.26	1-11/16	1-11/16	2-3/8	1-11/64	3/8-18	17/32	21/32	2-47/64	1-15/32
3-7/16, 3-1/2	100	2-15/16, 3	85	520 220 617 317	.011	.35	1-41/64	1-3/4	2-5/8	1-1/4	3/8-18	17/32	45/64	3-5/64	1-43/64

\* Based on oil temperature of 130°F - 150°F & oil level at center line of lowest roller. For maximum oil flow values, both drains should be used.

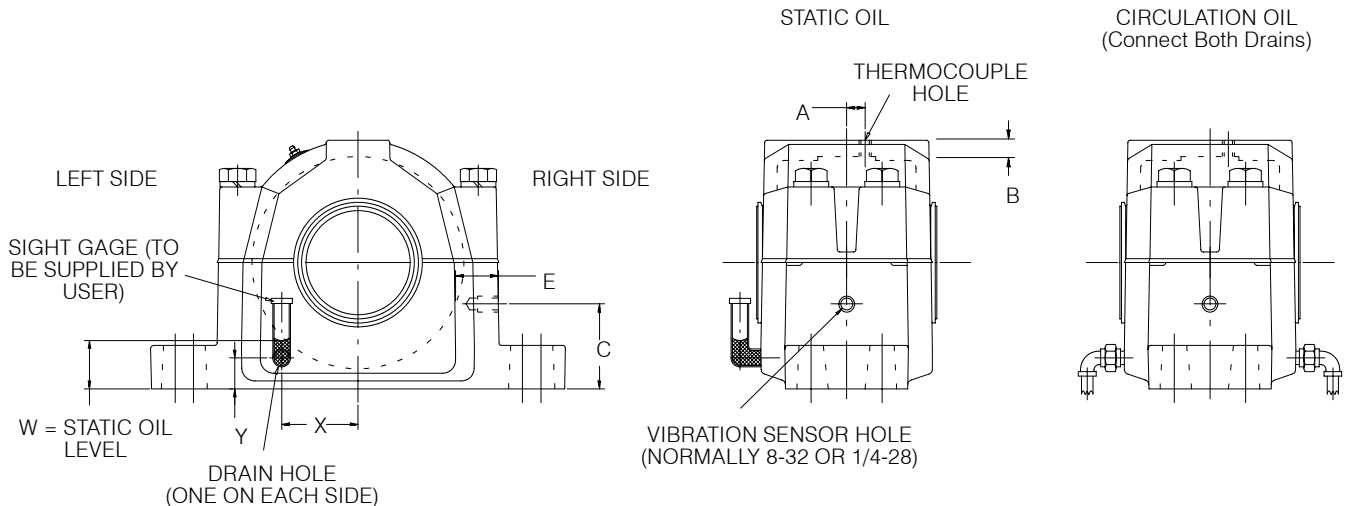
Mount block with drain holes on right side of block center line when rotation is CCW, unless cast closed end.

Mount block with drain holes on left side of block center line when rotation is CW.

\*\* Static oil level is measured from bottom of block base to meniscus on oil sight gauge. (Non-rotating mode)

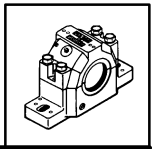
\*\*\* For wet sump, consult DODGE Application Engineering.

▲ For vibration sensors supplied by the user.



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# SELECTION



## UNIFIED SAF Bearing Seals

**TABLE 7 (Continued) – CIRCULATING OIL FLOW RATES, DRAIN HOLE SIZES, THERMOCOUPLE LOCATION AND VIBRATION SENSOR LOCATION**

Shaft Size				USAF Housing Designation	Circulating Oil Flow*		Static Oil Level Inches W**		Drain Hole, Dry Sump***			Thermocouple Hole		Vibration ▲ Sensor Hole	
500 Adptr. Mntg. Inches	200 Drct. Mntg. mm	600 Adptr. Mntg. Inches	300 Drct. Mntg. mm		Amount Sufficient for Normal Lubrication	Maximum Amount for Heat Dissipation Due to External Heat Source	500 & 200 Series	600 & 300 Series	Location Inches		Size	Location Inches	Wall Thck. Inches	Location Inches	Wall Thck. Inches
									X	Y					
3-15/16 4	110	—	—		522 222 — —	.015	.42	1-59/64	—	2-7/8	1-11/32	3/8-18	17/32	17/32	3-23/64
4-3/16	120	3-7/16, 3-1/2	100	524 224 620 320	.0175	.48	1-27/32	2-1/32	2-3/16	1-3/8	1/2-14	11/16	49/64	3-3/8	1-55/64
4-7/16, 4-1/2	130	3-15/16, 4	110	526 226 622 322	.019	.55	2-11/32	2-13/32	2-5/16	1-5/8	1/2-14	3/4	1	4-1/32	2-5/32
4-15/16, 5	140	—	—	528 228 — —	.023	.60	2-1/32	—	3-5/8	1-15/32	1/2-14	3/4	57/64	4-1/32	2-5/32
5-3/16	150	4-3/16	120	530 230 624 324	.025	.75	2-1/32	2-3/8	4-19/32	1-23/64	1/2-14	13/16	7/8	4-11/32	2-1/4
5-7/16, 5-1/2	160	4-7/16, 4-1/2	130	532 232 626 326	.030	.80	2-3/32	2-7/16	4-1/32	1-21/64	1/2-14	29/32	59/64	4-33/64	2-7/32
5-15/16, 6	170	4-15/16, 5	140	534 234 628 328	.035	.85	2-3/16	2-9/16	4-5/32	1-21/64	1/2-14	1	1-25/64	4-31/32	2-45/64
6-7/16, 6-1/2	180	5-3/16	150	536 236 630 330	.037	.875	2-27/64	2-5/8	4-7/32	1-5/8	1/2-14	1	1-21/64	5-1/4	2-3/4
6-15/16, 7	190	5-7/16, 5-1/2	160	538 238 632 332	.039	1.0	2-17/32	2-11/16	4-3/4	1-39/64	1/2-14	1-1/8	1-1/4	5-1/2	2-3/4
7-3/16	200	5-15/16, 6	170	540 240 634 334	.042	1.0	2-15/32	2-3/4	4-29/32	1-17/32	1/2-14	1-1/8	1-1/8	5-13/16	2-27/32
7-1/2	220	6-15/16, 7	190	544S 244 638 338	.050	1.4	3-1/4	2-3/8	5-7/16	2-1/32	1/2-14	1-3/16	1-1/2	6-5/8	2-23/64
7-15/16, 8		544													

\* Based on oil temperature of 130°F - 150°F & oil level at center line of lowest roller. For maximum oil flow values, both drains should be used.

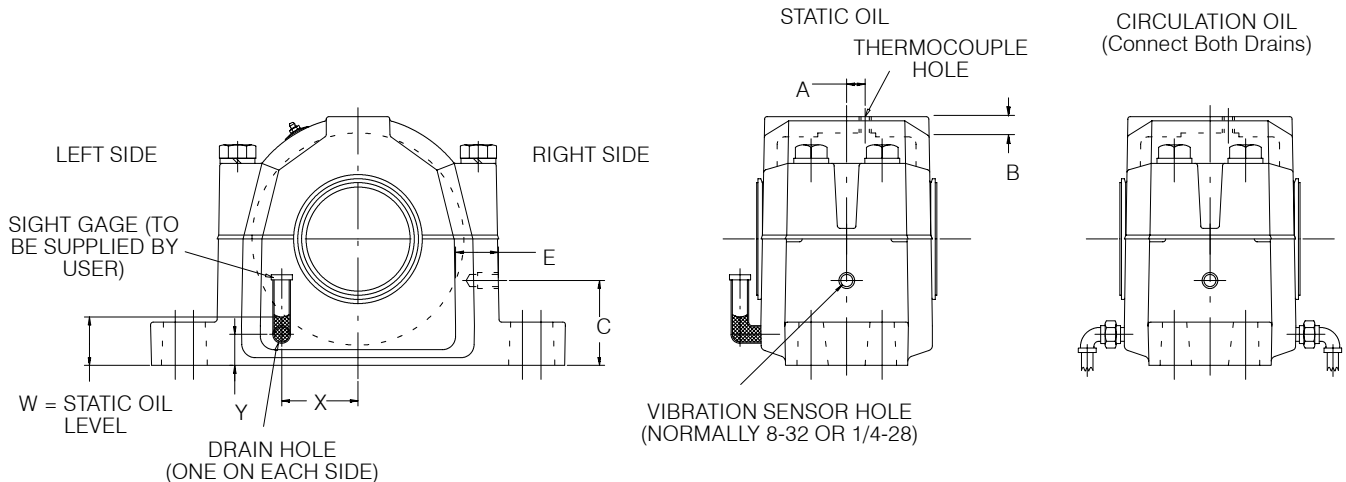
Mount block with drain holes on right side of block center line when rotation is CCW, unless cast closed end.

Mount block with drain holes on left side of block center line when rotation is CW.

\*\* Static oil level is measured from bottom of block base to meniscus on oil sight gauge. (Non-rotating mode)

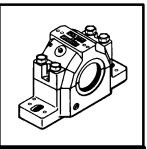
\*\*\* For wet sump, consult DODGE Application Engineering.

▲ For vibration sensors supplied by the user.

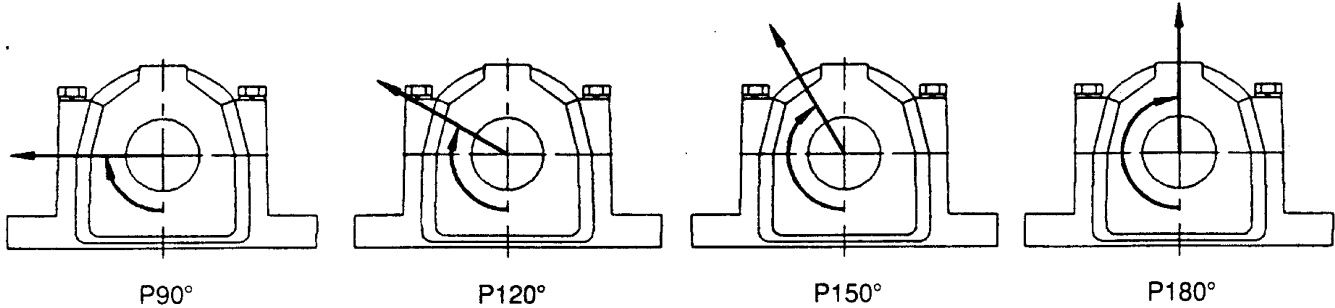


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# SELECTION



## UNIFIED SAF Bearing Seals



**TABLE 8 – USAF HOUSING RATINGS AND CAP BOLT RATINGS\***

PILLOW BLOCK DESIGNATION				RECOMMENDED HOUSING CAP LOADS ◆				RECOMMENDED CAP BOLT LOADS			CAP BOLT INFORMATION ◆		
USAF	USAF	USAF	USAF	P90 lbf	P120 lbf	P150 lbf	P180 lbf	P120 lbf	P150 lbf	P180 lbf	CAP BOLT (NO.) SIZE	TORQUE (Ft-Lb)	SAE GRADE
509				6600	4200	3600	4600	19800	11300	9900	(4) 3/8-16	24-30	5
			308	7800	5000	4400	5400	19800	11300	9900	(4) 3/8-16	24-30	5
513		611	311	13360	8260	7680	9200	27120	15600	13560	(4) 7/16-14	40-50	5
515	215		312	13360	8260	7680	9220	36200	20800	18100	(4) 1/2-13	60-75	5
516	216	613	313	12800	8000	7400	8900	57600	33000	28800	(4) 5/8-11	120-150	5
517	217		314	13600	9200	8400	10200	57600	33000	28800	(4) 5/8-11	120-150	5
518	218	615	315	17500	11350	10200	12100	57600	33000	28800	(4) 5/8-11	120-150	5
		616	316	17600	12000	10500	12200	57600	33000	28800	(4) 5/8-11	120-150	5
520	220	617	317	22500	14200	12660	14700	85200	48900	42600	(4) 3/4-10	208-260	5
522	222			28100	17500	15500	17800	85200	48900	42600	(4) 3/4-10	208-260	5
524	224	620	320	24500	15400	13700	15800	85200	48900	42600	(4) 3/4-10	208-260	5
526	226	622	322	28970	18000	15900	18300	11800	67800	59000	(4) 7/8-9	320-430	5
528	228			35800	22100	19400	22300	154400	88700	77200	(4) 1-8	512-640	5
530	230	624	324	40000	24700	21600	25000	154400	88700	77200	(4) 1-8	512-640	5
532	232	626	326	40200	24800	21700	25100	154400	88700	77200	(4) 1-8	512-640	5
534	234	628	328	52000	32200	28200	33000	154400	88700	77200	(4) 1-8	512-640	5
536	236	630	330	78200	49200	43300	52800	154400	88700	77200	(4) 1-8	512-640	5
538	238	632	332	80600	50800	44800	54800	215200	123000	107600	(4) 1-1/4-7	896-1120	5
540	240	634	334	83800	53000	46700	57500	215200	123000	107600	(4) 1-1/4-7	896-1120	5
044	244	638	338	101800	65600	58200	73800	312000	179000	156000	(4) 1-1/2-6	1560-1950	5
048				83800	53000	46700	54800	215200	123000	107600	(4) 1-1/4-7	896-1120	5
052				101800	65600	58200	73800	312000	179000	156000	(4) 1-1/2-6	1560-1950	5
056				110200	71800	64000	82100	312000	179000	156000	(4) 1-1/2-6	1560-1950	5

\* When utilizing heavy cap loads on pillow block housings, the installation must adhere to the following procedures.

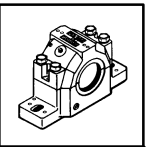
- 1) The pillow block base bolts must have high strength (Grade 8) bolts and be properly tightened to mounting structure.
- 2) Stop bars (shear strips) must be used against the pillow block where side loads are encountered.
- 3) In all cases where loads are heavy, the L10 life of the bearing should be checked for proper selection and life requirements.

◆ For USDAF housing and Cap Bolt Ratings consult DODGE Application Engineering (864-297-4800).

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# SELECTION



## UNIFIED SAF Bearing Seals

**TABLE 9 – DOWEL HOLE LOCATIONS FOR PRECISION POSITIONING USAF, TAF, E, K AND DI PILLOW BLOCKS (2 & 4 BOLT)**

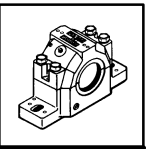
Series & Size			2-Bolt	Pillow	Block	4-Bolt	Pillow Block	Dowel Hole Dia.
USAF & TAF	K & DI	Type "E"	A	B	C	X	Y	D
---	103	---	2.750	3.000	.656	---	---	.250
509	107	---	3.063	3.188	.719	---	---	.375
510	111	---	3.125	3.281	.812	---	---	.375
511	115	---	3.781	3.938	.859	---	---	.375
512*	---	---	3.938	4.188	.859	---	---	.375
513	203	---	4.234	4.484	.938	4.344	4.594	.375
515	207	---	4.281	4.531	.953	4.375	4.625	.375
516	---	---	5.000	5.250	1.031	5.000	5.250	.375
517	215	---	5.000	5.250	1.031	5.000	5.250	.375
518*	---	---	5.375	5.625	1.141	5.500	5.750	.375
519*	---	---	5.375	5.625	1.141	5.500	5.750	.375
---	---	307	6.375	6.375	1.250	6.234	6.234	.375
520	307	---	5.875	6.125	1.234	6.313	6.438	.500
---	---	315	---	---	---	7.250	7.250	.375
522	315	---	6.250	6.500	1.453	5.750	6.000	.500
524*	---	---	6.375	6.625	1.453	6.813	7.063	.500
---	---	407	---	---	---	7.500	7.500	.375
526	407	---	7.156	7.406	1.570	6.313	6.438	.500
---	---	415	---	---	---	8.075	8.075	.375
528	415	---	7.750	8.000	1.813	6.938	7.188	.500

\* USAF Pillow Blocks Only

Dowel Holes are pre-drilled in housing base for precision positioning

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# SELECTION



## UNIFIED SAF Bearing Seals

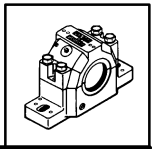
**TABLE 10 – UNIFIED 500, 200, 600 AND 300 SERIES AND SPLIT-SPHER PILLOW BLOCKS  
TOTAL EXPANSION CAPABILITY**

Shaft Size				USAF Housing Designation				Total Expansion, Inches
500 Adptr. Mntg. Inches	200 Drct. Mntg. mm	600 Adptr. Mntg. Inches	300 Drct. Mntg. mm					
1-7/16	—	—	—	509	—	—	—	1/4
1-11/16	—	—	40	510	—	—	308	1/4
1-15/16	—	1-7/16	45	511	—	609	309	1/4
—	—	1-11/16	50	—	—	610	310	7/16
2-3/16	—	1-15/16	55	513	—	611*	311*	5/16
2-7/16, 2-1/2	75	—	60	515	215	—	312	1/4
2-11/16, 2-3/4	80	2-7/16	65	516	216	613	313	3/8
2-15/16, 3	85	—	70	517	217	—	314	3/8
3-3/16	90	2-7/16, 2-1/2	75	518	218	615	315	3/8
—	—	2-11/16 2-3/4	80	—	—	616	316	3/8
3-7/16, 3-1/2	100	2-15/16, 3	85	520	220	617	317	3/8
3-15/16, 4	110	—	—	522	222	—	—	3/8
4-3/16	120	3-7/16, 3-1/2	100	524	224	620	320	3/8
4-7/16, 4-1/2	130	3-15/16, 4	110	526	226	622	322	3/8
4-15/16, 5	140	—	—	528	228	—	—	3/8
5-3/16	150	4-3/16	120	530	230	624	324	3/8
5-7/16, 5-1/2	160	4-7/16, 4-1/2	130	532	232	626	326	3/8
5-15/16, 6	170	4-15/16, 5	140	534	234	628	328	3/8
6-7/16, 6-1/2	180	5-3/16	150	536	236	630	330	3/8
6-15/16, 7	190	5-7/16, 5-1/2	160	538	238	632	332	3/8
7-3/16	200	5-15/16, 6	170	540	240	634	334	3/8
7-1/2,	220	6-15/16, 7	190	544S	244	638	338	3/8
7-15/16, 8		—		544				
8-7/16, 8-1/2 8-15/16, 9	—	—	—	048	—	—	—	5/8
9-7/16, 9-1/2	—	—	—	052	—	—	—	9/16
9-15/16, 10	—	—	—	056	—	—	—	1-5/8
10-7/16 10-1/2	—	—	—	056L	—	—	—	1-5/8

\* 1/4" Total Expansion

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# SELECTION/DIMENSIONS



## Pillow Block SPLIT-SPHER™ Roller Bearings (USAF 500 Series)

DODGE SPLIT-SPHER 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.

**L<sub>10</sub> 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 10, page B9-34), lbs.  
P = Equivalent Radial Load, lbs.

(See Equation 1 on page B9-34 for definition of P.)

### GENERAL

**Heavy Service** — For heavy shock loads, frequent shock loads, or severe vibrations, increase the Equivalent Radial Load up to 50% (according to severity of conditions) 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 L<sub>10</sub> life. Where substantial radial load is also present, it is advisable to calculate actual L<sub>10</sub> life to assure that the bearing meets the requirements.

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 uplift loads are involved, see page B9-30 for maximum values.** Spherical bearings require a radial load at least equal to the thrust load for proper operation. It is advisable to calculate actual L<sub>10</sub> life to assure adequate conditions (normally at least 30,000 hours life). 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.

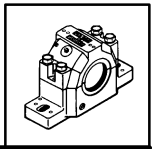
### SHAFT TOLERANCES

SHAFT SIZE, INCHES	TOLERANCE, INCHES
Up to 1-1/2"	+0.000 -0.002"
1-9/16 to 2-1/2"	+0.000 -0.003"
2-5/8 to 4"	+0.000 -0.004"
4-7/16 to 6"	+0.000 -0.005"

\* Use the smaller of this value or the maximum allowable thrust load listed in Table 10.

**NOTE:** Polyamide cages may limit bearing operating temperature.

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## Selecting Bearings – Supporting Radial Loads Only

1. Define the desired  $L_{10}$  Life in Hours.
2. Establish bearing radial load,  $F_R$ .
3. Establish RPM.
4. Calculate the equivalent radial load.  
( $P = F_R \times 1.1^*$  = Equivalent radial load)  
(The DODGE program BEST♦ can be used to find application loads.)

Using the easy selection Table 11 (page B9–35), under the RPM column find the equivalent load that equals or is slightly higher than the application radial load multiplied by a 1.1 factor 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 = 4,000 lbs.
  3. RPM = 950

At the intersection of the 950 RPM column and the 30,000 hours  $L_{10}$  life row, the equivalent radial load of 4445 lbs. exceeds the 4400 lbs. ( $4000 \times 1.1$ ) application equivalent radial load for shaft size 2-7/16" - 2-1/2". A SPLIT-SPHER bearing with shaft size of 2-7/16" - 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  $C$  is identified in terms of  $L_{10}$ , RPM and  $P$ .

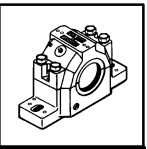
$$C = \left( \frac{L_{10} \times \text{RPM}}{16667} \right)^{0.3} \times P$$

$$(P = F_R \times 1.1^* = \text{Equivalent Radial Load})$$

Since the  $L_{10}$ , RPM, and  $F_R$  are known, solve for  $C$ . Select from the dynamic capacity column on Table 11 (page B9–34) the  $C$  value equal to or just greater than the  $C$  value just calculated. The bore size on the far left represents the minimum shaft 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 given to shaft deflection and proper lubricant selection.

- The application factor, 1.1, compensates for the gaps and relief area on either side of the gaps. At no time should  $F_R$  or  $P$  exceed 20% of the Dynamic Capacity  $C$ .
- ♦ 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.

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## 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 (page B9-34) 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.

### Equation 1

The equivalent radial load  $P = (XF_R + YF_A) \times 1.1^*$

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 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 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 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 chart.

### SELECTING BEARINGS SUPPORTING ONLY THRUST LOADS

Spherical Roller Bearings generally are not recommended for pure thrust load applications. They will perform satisfactorily under very light pure thrust loads. Consult DODGE Application Engineering (864-297-4800 or FAX 864-281-2317).

### AXIAL EXPANSION CAPABILITY

The axial expansion capability of SPLIT-SPHER Pillow Blocks is the same as the UNIFIED 500 pillow blocks. See Table 9 on page B9-31.

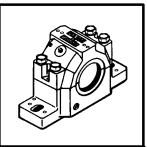
- The application factor, 1.1, compensates for the gaps and relief area on either side of the gaps. At no time should  $F_R$  or P exceed 20% of the Dynamic Capacity C.

**TABLE 11 – SPLIT-SPHER BEARINGS RADIAL & THRUST FACTORS**

SHAFT SIZE INCHES	REPLACES BEARING SERIES	e	$F_A/F_R \leq e$		$F_A/F_R > e$		MAX. ALLOW. THRUST LOAD $F_A$ Lbs.	DYNAMIC* CAPACITY (C) POUNDS	MAX. RPM (GREASE)
			X	Y	X	Y			
2-3/16	22213K	.24	1	2.8	.67	4.2	1200	35,000	2600
2-7/16	22215K	.24	1	2.8	.67	4.2	1200	41,500	2350
2-15/16-3	22217K	.22	1	3.1	.67	4.6	1700	45,000	2200
3-3/16	22218K	.22	1	2.9	.67	4.6	1700	52,000	2100
3-7/16	22220K	.23	1	2.8	.67	4.3	1700	71,000	1700
3-15/16-4	22222K	.24	1	2.8	.67	4.2	3100	90,000	1450
4-7/16	22226K	.25	1	2.7	.67	4.0	3100	132,000	1200
4-15/16	22228K	.26	1	2.6	.67	3.9	3100	153,000	1100
5-7/16	22232K	.25	1	2.7	.67	4.0	5000	204,000	1000
5-15/16-6	22234K	.26	1	2.6	.67	3.9	5000	232,000	950

\* At no time load on a split-spher bearing should exceed 20% of the Dynamic Capacity C.

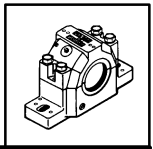
# SELECTION/DIMENSIONS



**TABLE 12 – SELECTION TABLE FOR SPLIT-SPHER Spherical ROLLER BEARINGS**

SHAFT SIZE INCHES	L <sub>10</sub> LIFE HRS.	ALLOWABLE EQUIVALENT RADIAL LOAD RATING (LBS.) AT VARIOUS REVOLUTIONS PER MINUTE													
		50	100	250	375	450	800	950	1100	1200	1300	1700	2100	2350	2600
2-3/16	10000	7000	7000	7000	6990	6620	5570	5290	5060	4930	4815	4440	4170	4030	3910
	<b>30000</b>	<b>7000</b>	<b>7000</b>	<b>5680</b>	<b>5030</b>	<b>4760</b>	<b>4005</b>	<b>3805</b>	<b>3640</b>	<b>3545</b>	<b>3465</b>	<b>3195</b>	<b>3000</b>	<b>2900</b>	<b>2810</b>
	50000	7000	6415	4870	4315	4085	3435	3265	3125	3045	2970	2740	2570	2485	2415
	100000	6415	5210	3955	3505	3315	2790	2650	2535	2470	2415	2225	2090	2020	1960
2-7/16	10000	8300	8300	8300	8175	7740	6510	6185	5920	5765	5630	5195	4875	4710	
	<b>30000</b>	<b>8300</b>	<b>8300</b>	<b>6640</b>	<b>5880</b>	<b>5565</b>	<b>4685</b>	<b>4445</b>	<b>4255</b>	<b>4145</b>	<b>4050</b>	<b>3735</b>	<b>3505</b>	<b>3390</b>	
	50000	8300	7495	5695	5045	4775	4015	3815	3650	3555	3475	3205	3005	2905	
	100000	7495	6090	4625	4095	3880	3265	3100	2965	2890	2820	2600	2445	2360	
2-15/16 3	10000	9000	9000	9000	8860	8390	7060	705	6415	6250	6105	5630	5285		
	<b>30000</b>	<b>9000</b>	<b>9000</b>	<b>7200</b>	<b>6375</b>	<b>6035</b>	<b>5080</b>	<b>4820</b>	<b>4615</b>	<b>4495</b>	<b>4390</b>	<b>4050</b>	<b>3800</b>		
	50000	9000	8130	6175	5470	5175	4355	4135	3960	3855	3765	3475	3260		
	100000	8130	6605	5015	4440	4205	3540	3360	3215	3135	3060	2820	2650		
3-3/16	10000	10400	10400	10400	10240	9695	8160	7750	7415	7225	7055	6505	6105		
	<b>30000</b>	<b>10400</b>	<b>10400</b>	<b>8320</b>	<b>7365</b>	<b>6975</b>	<b>5870</b>	<b>5575</b>	<b>5335</b>	<b>5195</b>	<b>5070</b>	<b>4680</b>	<b>4390</b>		
	50000	10400	9395	7135	6320	5980	5035	4780	4575	4455	4350	4015	3770		
	100000	9395	7630	5795	5130	4860	4090	3885	3715	3620	3535	3260	3060		
3-7/16	10000	14200	14200	14200	13985	13240	11140	10580	10125	9865	9630	8885			
	<b>30000</b>	<b>14200</b>	<b>14200</b>	<b>11355</b>	<b>10055</b>	<b>9520</b>	<b>8010</b>	<b>7610</b>	<b>7280</b>	<b>7095</b>	<b>6925</b>	<b>6390</b>			
	50000	14200	12825	9745	8630	8170	6875	6530	6245	6085	5940	5480			
	100000	12825	10420	7915	7010	6635	5585	5300	5075	4945	4825	4455			
3-15/16 4	10000	18000	18000	18000	17725	16780	14120	13410	12835	12505	12205				
	<b>30000</b>	<b>18000</b>	<b>18000</b>	<b>14395</b>	<b>12750</b>	<b>12070</b>	<b>10155</b>	<b>9645</b>	<b>9230</b>	<b>8995</b>	<b>8780</b>				
	50000	18000	16260	12350	10935	10355	8715	8275	7920	7715	7530				
	100000	16260	13205	10030	8885	8410	7075	6720	6430	6265	6120				
4-7/16	10000	26400	26400	26400	25995	24615	20710	19670	18825	18340					
	<b>30000</b>	<b>26400</b>	<b>26400</b>	<b>21115</b>	<b>18695</b>	<b>17700</b>	<b>14895</b>	<b>14145</b>	<b>13540</b>	<b>13190</b>					
	50000	26400	23845	18115	16040	15185	12780	12135	11615	11315					
	100000	23845	19370	14715	13030	12335	10380	9860	9435	9190					
4-15/16	10000	30600	30600	30600	30130	28530	24005	22800	21820						
	<b>30000</b>	<b>30600</b>	<b>30600</b>	<b>24475</b>	<b>21670</b>	<b>20520</b>	<b>17265</b>	<b>16400</b>	<b>15690</b>						
	50000	30600	27640	20995	18590	17605	14810	14070	13460						
	100000	27640	22450	17055	15100	14300	12030	11425	10935						
5-7/16	10000	40800	40800	40800	40175	38040	32010	30400							
	<b>30000</b>	<b>40800</b>	<b>40800</b>	<b>32635</b>	<b>28895</b>	<b>27360</b>	<b>23020</b>	<b>21865</b>							
	50000	40800	36855	27995	24790	23470	19750	18755							
	100000	36855	29935	22740	20135	19065	16040	15235							
5-15/16 6	10000	46400	46400	46400	45690	43260	36400	34570							
	<b>30000</b>	<b>46400</b>	<b>46400</b>	<b>37115</b>	<b>32860</b>	<b>31115</b>	<b>26180</b>	<b>24865</b>							
	50000	46400	41915	31840	28195	26690	22460	21330							
	100000	41915	34045	25860	22900	21680	18245	17325							

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## Selecting Lubrication

DODGE SPLIT-SPHER Roller Bearings are lubricated by the user at installation. DODGE SPLIT-SPHER Roller Bearings can be run with either grease or oil lubrication.

### Grease Lubrication:

In order to properly protect the bearing during installation, pack the bearing insert 100% full of grease immediately after properly mounting the bearing on the shaft. If the RPM of the application falls between 20% and 80% of maximum RPM (Table 10, page B9–34), pack the lower half of the housing one-third to one-half full. If the RPM of the application is less than 20% of maximum RPM, pack bearing housing cavity 100% full. If the RPM exceeds 80% of maximum RPM, do not add grease in the lower half of the housing nor in the cap.

At each re-greasing cycle, for applications up to 80% of maximum RPM, slowly add grease until fresh grease is seen purging at the seals. Re-greasing should be done while running. Remote re-greasing lines should be added to avoid endangering personnel. If the RPM is greater than 80% of maximum RPM, add 4 strokes of a handgun

at each re-greasing cycle for bores up to 2". For bores greater than 2" up to 5", add 8" strokes of a handgun at each re-greasing cycle. For bores greater than 5" up to 6", add 16 strokes of a handgun at each re-greasing cycle. For units running above 80% of maximum RPM, running temperature should be monitored. If a drastic change in running temperature is noted, DODGE recommends removing the used grease completely and re-charging with fresh grease per the above instructions. For warning before catastrophic failure, see DODGE Temperature Monitor Package on page B9–113.

Select a grease with a viscosity at an operating temperature which will provide full film lubrication (see Table 12). Use a 50°F to 100°F increase in bearing temperature above ambient, depending on RPM and load. Use Table 13 (page B9–36) as a general guide for re-greasing the bearings. A small amount of grease at frequent intervals is preferable to a large amount of grease at infrequent intervals. For special applications involving high speeds, high loads, or very low speeds, consult DODGE Application Engineering (864-297-4800 or FAX 864-281-2317).

**TABLE 13 – VISCOSITY OF GREASE**

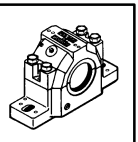
DN Δ	Viscosity for Loads Up To 18% of Dyn. Cap. ◆ (SUS @ Oper. Temp.)	DN Δ	Viscosity for Loads Up To 18% of Dyn. Cap. ◆ (SUS. @ Oper. Temp.)
100	3500	1400	625
200	3150	1600	525
300	2750	1800	450
400	2375	2000	400
500	2000	3000	300
600	1750	4000	200
700	1500	5000	150
800	1300	6000	130
900	1075	7000	110
1000	900	8000	100

Δ DN = Bore Diameter (inches) x RPM

◆ For loads above 18% of dynamic capacity, an EP grease with the viscosity selected from above is recommended.

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# SELECTION/DIMENSIONS



**TABLE 14 – RE-GREASING INTERVALS (Months)\*  
(Based on 12 Hours per Day, 150°F Max.)**

SHAFT SIZE (inch)	RPM							
	250	500	750	100	1250	1500	2000	2500
1-7/16 - 1-15/16	8	6	4	3	2	1	.5	.5
2-3/16	7	5	3	2	1	1	.5	.25
2-7/16 - 3	6	4	3	2	1	.5	.25	.25
3-3/16 - 3-1/2	5	3	2	1	.5	.5	.25	
3-15/16 - 4-7/16	4	3	2	1	.5	.25		
4-15/16 - 5-1/2	3	2	1	.5	.25			
5-15/16 - 6	2	1	1	.5				

\* For continuous operation, 24 hrs./day, reduce the re-greasing intervals by half.

▲ S-1 SHAFT SIZE (INCH)	PILLOW BLOCK	500 SS PILLOW BLOCK ASSY †				A***  SPLIT SEAL
		THRU HOUSING •				
		2-BOLT		4-BOLT		
		PART NO.	Approx. Wt. (lbs.)	PART NO.	Approx. Wt. (lbs.)	
2-3/16	513	043958	26	046110	27	4-3/16
2-7/16	515	043959	31	043964	33	4-15/32
2-15/16	517	043961	44	043966	47	4-53/64
3-3/16	518	043962	48	043967	49	5-45/64
3-7/16	520	043963	77	043968	78	6-3/16
3-15/16	522	—	—	043969	101	6-19/32
4		—	—	043970	100.5	
4-7/16	526	—	—	043972	155.5	7-1/2
4-15/16	528	—	—	043974	193	7-7/8
5-7/16	532	—	—	043976	288	9-13/64
5-15/16 6	534	—	—	043977	350.8	9-1/8
		—	—	043978	350.6	

\*\*\* Length thru bore with seals

▲ For sizes not listed consult DODGE

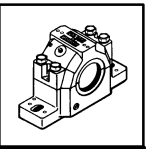
† Includes housing with spacer, split seals, split-spher insert

• For housing dimensions see Page B9-49

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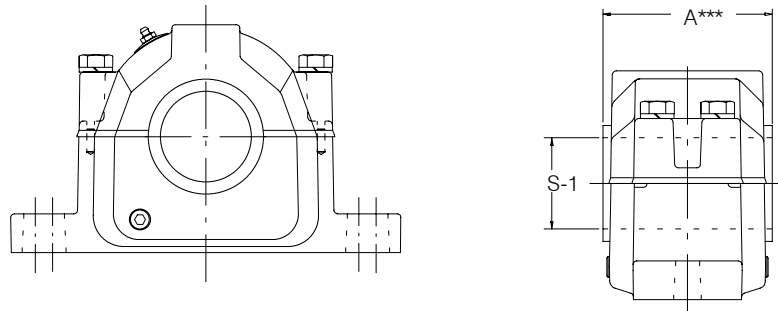


# SELECTION/DIMENSIONS



## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

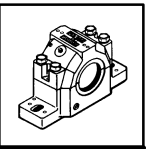
### 500 SERIES OPEN END HOUSING



Shaft Dia S-1	Complete Pillow Block Part #	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)
1-7/16	P2B509-USAF-107TT 043015	H2S-509-USAF 043995	BRG22209KC3 422134	20,800	5,600
1-11/16	P2B510-USAF-111TT 043048	H2S-510-USAF 043996	BRG22210KC3 422137	22,000	5,300
1-15/16	P2B511-USAF-115TT 043248	H2S-511-USAF 043997	BRG22211KC3 422123	27,000	4,500
2-3/16	P2B513-USAF-203TT 043249	H2S-513-USAF 043998	BRG22213KC3 422124	38,000	3,800
	P4B513-USAF-203TT 039579	H4S-513-USAF 039669	BRG22213KC3 422124	38,000	3,800
2-7/16	P2B515-USAF-207TT 041860	H2S-515-USAF 044000	BRG22215KC3 422001	41,500	3,400
	P4B515-USAF-207TT 041861	H4S-515-USAF 044003	BRG22215KC3 422001	41,500	3,400
2-1/2	P2B515-USAF-208TT 041862	H2S-515-USAF 044000	BRG22215KC3 422001	41,500	3,400
	P4B515-USAF-208TT 041863	H4S-515-USAF 044003	BRG22215KC3 422001	41,500	3,400
2-11/16	P2B516-USAF-211TT 042406	H2S-516-USAF 044198	BRG22216KC3 422003	46,500	3,200
	P4B516-USAF-211TT 044015	H4S-516-USAF 044007	BRG22216KC3 422003	46,500	3,200
2-3/4	P2B516-USAF-212TT 042409	H2S-516-USAF 044198	BRG22216KC3 422003	46,500	3,200
	P4B516-USAF-212TT 042423	H4S-516-USAF 044007	BRG22216KC3 422003	46,500	3,200
2-15/16	P2B517-USAF-215TT 041864	H2S-517-USAF 044010	BRG22217KC3 422005	58,500	3,000
	P4B517-USAF-215TT 041865	H4S-517-USAF 044010	BRG22217KC3 422005	58,500	3,000
3	P2B517-USAF-300TT 041866	H2S-517-USAF 044013	BRG22217KC3 422005	58,500	3,000
	P4B517-USAF-300TT 041867	H4S-517-USAF 044013	BRG22217KC3 422005	58,500	3,000
3-3/16	P2B518-USAF-303TT 042422	H2S-518-USAF 044199	BRG22218KC3 422007	64,000	2,600
	P4B518-USAF-303TT 044115	H4S-518-USAF 044114	BRG22218KC3 422007	64,000	2,600

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# SELECTION/DIMENSIONS



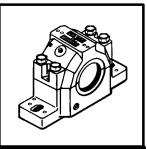
## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### 500 SERIES OPEN END HOUSING

Shaft Dia S-1	SNW Part No.	Triple Tect Part No.	TTDN Part No.	LER Part No.	Aux Part No.	End Cover
1-7/16	H309-SNW-107 046350	08TT107 043578	---	08LER107 042193		EC08 040700
1-11/16	H310-SNW-111 046351	10TT111 043579	---	10LER111 042199		EC10 040701
1-15/16	H311-SNW-115 046352	12TT115 043540	12TTDN115 039582	12LER115 042512	12AUX115 041687	EC12 040702
2-3/16	H313-SNW-203 046353	14TT203 043541	14TTDN203 039583	14LER203 042513	14AUX203 041688	EC14 040703
	H313-SNW-203 046353	14TT203 043541	14TTDN203 039583	14LER203 042513	14AUX203 041688	EC14 040703
2-7/16	H315-SNW-207 046354	20TT207 043542	20TTDN207 039538	20LER207 042514	20AUX207 042380	EC20 040704
	H315-SNW-207 046354	20TT207 043542	20TTDN207 039538	20LER207 042514	20AUX207 042380	EC20 040704
2-1/2	H315-SNW-208 046355	20TT208 043543	20TTDN208 039854	20LER208 042515	20AUX208 040890	EC20 040704
	H315-SNW-208 046355	20TT208 043543	20TTDN208 039854	20LER208 042515	20AUX208 040890	EC20 040704
2-11/16	H316-SNW-211 046356	24TT211 043544	24TTDN211 039855	24LER211 042516	24AUX211 042381	EC24 040705
	H316-SNW-211 046356	24TT211 043544	24TTDN211 039855	24LER211 042516	24AUX211 042381	EC24 040705
2-3/4	H316-SNW-212 046357	24TT212 043545	24TTDN212 039856	24LER212 042517	24AUX212 040891	EC24 040705
	H316-SNW-212 046357	24TT212 043545	24TTDN212 039856	24LER212 042517	24AUX212 040891	EC24 040705
2-15/16	H317-SNW-215 046358	28TT215 043546	28TTDN215 039530	28LER215 042518	28AUX215 042382	EC28 040706
	H317-SNW-215 046358	28TT215 043546	28TTDN215 039530	28LER215 042518	28AUX215 042382	EC28 040706
3	H317-SNW-300 046359	28TT300 043547	28TTDN300 039857	28LER300 042519	28AUX300 040918	EC28 040706
	H317-SNW-300 046359	28TT300 043547	28TTDN300 039857	28LER300 042519	28AUX300 040918	EC28 040706
3-3/16	H318-SNW-303 046360	34TT303 043548	34TTDN303 039858	34LER303 042520	34AUX303 040892	EC34 040707
	H318-SNW-303 046360	34TT303 043548	34TTDN303 039858	34LER303 042520	34AUX303 040892	EC34 040707

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# SELECTION/DIMENSIONS



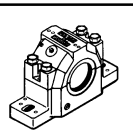
## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### 500 SERIES OPEN END HOUSING

Shaft Dia S-1	Complete Pillow Block Part #	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)
3-7/16	P2B520-USAF-307TT 041868	H2S-520-USAF 044020	BRG22220KC3 422009	80,000	2,200
	P4B520-USAF-307TT 041869	H4S-520-USAF 044023	BRG22220KC3 422009	80,000	2,200
3-1/2	P2B520-USAF-308TT 041870	H2S-520-USAF 044020	BRG22220KC3 422009	80,000	2,200
	P4B520-USAF-308TT 041871	H4S-520-USAF 044023	BRG22220KC3 422009	80,000	2,200
3-15/16	P4B522-USAF-315TT 041872	H4S-522-USAF 044025	BRG22222KC3 422011	102,000	2,000
4	P4B522-USAF-400TT 041873	H4S-522-USAF 044025	BRG22222KC3 422011	102,000	2,000
4-3/16	P4B524-USAF-403TT 042431	H4S-524-USAF 044202	BRG22224KC3 422013	120,000	1,900
4-7/16	P4B526-USAF-407TT 041874	H4S-526-USAF 044031	BRG22226KC3 422015	143,000	1,800
4-1/2	P4B526-USAF-408TT 041875	H4S-526-USAF 044031	BRG22226KC3 422015	143,000	1,800
4-15/16	P4B528-USAF-415TT 041876	H4S-528-USAF 044034	BRG22228KC3 422017	166,000	1,700
5	P4B528-USAF-500TT 041877	H4S-528-USAF 044034	BRG22228KC3 422017	166,000	1,700
5-3/16	P4B530-USAF-503TT 042438	H4S-530-USAF 044203	BRG22230KC3 422019	190,000	1,600
5-7/16	P4B532-USAF-507TT 041878	H4S-532-USAF 044040	BRG22232KC3 422021	216,000	1,500
5-1/2	P4B532-USAF-508TT 041879	H4S-532-USAF 044040	BRG22232KC3 422021	216,000	1,500
5-15/16	P4B534-USAF-515TT 041880	H4S-534-USAF 044043	BRG22234KC3 422023	250,000	1,300
6	P4B534-USAF-600TT 041881	H4S-534-USAF 044043	BRG22234KC3 422023	250,000	1,300
6-7/16	P4B536-USAF-607TT 041882	H4S-536-USAF 044046	BRG22236KC3 422025	255,000	1,300
6-1/2	P4B536-USAF-608TT 041883	H4S-536-USAF 044046	BRG22236KC3 422025	255,000	1,300
6-15/16	P4B538-USAF-615TT 041884	H4S-538-USAF 044049	BRG22238KC3 422027	270,000	1,200
7	P4B538-USAF-700TT 041885	H4S-538-USAF 044049	BRG22238KC3 422027	270,000	1,200
7-3/16	P4B540-USAF-703TT 039606	H4S-540-USAF 039681	BRG22240KC3 422064	300,000	900
7-1/2	P4B544-USAF-708TT 042445	H4S-544S-USAF 044054	BRG22244KC3 422029	365,000	950
7-15/16	P4B544-USAF-715TT 041886	H4S-544-USAF 044055	BRG22244KC3 422029	365,000	950

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# SELECTION/DIMENSIONS



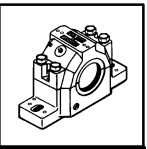
## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### 500 SERIES OPEN END HOUSING

Shaft Dia S-1	SNW Part No.	Triple Tect Part No.	TTDN Part No.	LER Part No.	Aux Part No.	End Cover
3-7/16	H320-SNW-307 046361	46TT307 043549	46TTDN307 039859	46LER307 042521	46AUX307 042383	EC46 040708
	H320-SNW-307 046361	46TT307 043549	46TTDN307 039859	46LER307 042521	46AUX307 042383	EC46 040708
3-1/2	H320-SNW-308 046362	46TT308 043550	46TTDN308 039860	46LER308 042522	46AUX308 040919	EC46 040708
	H320-SNW-308 046362	46TT308 043550	46TTDN308 039860	46LER308 042522	46AUX308 040919	EC46 040708
3-15/16	H322-SNW-315 046363	50TT315 043551	50TTDN315 039861	50LER315 042523	50AUX315 042384	EC50 040709
4	H322-SNW-400 046364	50TT400 043552	50TTDN400 039862	50LER400 042524	50AUX400 040893	EC50 040709
4-3/16	H3124-SNW-403 046430	52TT403 043553	52TTDN403 039863	52LER403 042525	52AUX403 044360	EC52 040710
4-7/16	H3126-SNW-407 046431	54TT407 043554	54TTDN407 039864	54LER407 042526	54AUX407 042385	EC54 040711
4-1/2	H3126-SNW-408 046432	54TT408 043555	54TTDN408 039865	54LER408 042527	54AUX408 042386	EC54 040711
4-15/16	H3128-SNW-415 046433	56TT415 043556	56TTDN415 039866	56LER415 042528	56AUX415 042387	EC56 040712
5	H3128-SNW-500 046434	56TT500 043557	56TTDN500 039867	56LER500 042529	56AUX500 040894	EC56 040712
5-3/16	S0N30X503 043618	58TT503 043558	---	58LER503 042530		EC58 040713
5-7/16	SNW32X507 043619	60TT507 043559	---	60LER507 042531	60AUX507	EC60 040714
5-1/2	SNW32X508 043634	60TT508 043574	---	60LER508 042532	60AUX508 040895	EC60 040714
5-15/16	SNW32X515 043620	64TT515 043560	---	64LER515 042533	64AUX515 042389	EC64 040681
6	SNW34X600 043621	64TT600 043561	---	64LER600 042534	64AUX600 041646	EC64 040681
6-7/16	SNW36X607 043622	68TT607 042562	---	68LER607 042535	68AUX607 042390	EC68 040682
6-1/2	SNW36X608 043623	68TT608 043563	---	68LER608 042536	68AUX608 042391	EC68 040682
6-15/16	SNW38X615 043624	72TT615 043564	---	72LER615 042537	72AUX615 042392	EC72 040683
7	SNW38X700 043625	72TT700 043565	---	72LER700 042538	72AUX700 043109	EC72 040683
7-3/16	SNW40X703 046545	74TT703 046421	---	74LER703 043386	74AUX703 040690	---
7-1/2	SNW44X708 043627	76TT708 043567	---	76LER708 042539	76AUX708 040896	EC76 040684
7-15/16	SNW44X715 043626	78TT715 043566	---	78LER715 042540	78AUX715 042393*	EC78 040685

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# SELECTION/DIMENSIONS



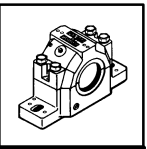
## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### 500 SERIES OPEN END HOUSING

Shaft Dia S-1	Complete Pillow Block Part #	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)
8	P4B544-USAF-800TT 041887	H4S-544-USAF 044055	BRG22244KC3 422029	365,000	950
8-7/16	P4B048-USAF-807TT 042447	H4S-048-USAF 044200	BRG23048KC3 422031	260,000	800
8-1/2	P4B048-USAF-808TT 042448	H4S-048-USAF 044200	BRG23048KC3 422031	260,000	800
8-15/16	P4B048-USAF-815TT 042449	H4S-048-USAF 044200	BRG23048KC3 422031	260,000	800
9	P4B048-USAF-900TT 042453	H4S-048-USAF 044200	BRG23048KC3 422031	260,000	800
9-7/16	P4B052-USAF-907TT 042454	H4S-052-USAF 0422542	BRG23052KC3 422543	340,000	750
9-1/2	P4B052-USAF-908TT 0422544	H4S-052-USAF 0422542	BRG23052KC3 422543	340,000	750
9-15/16	P4B056-USAF-915TT 042458	H4S-056-USAF 0422560	BRG23056KC3 422030	345,000	700
10	P4B056-USAF-1000TT 041628	H4S-056-USAF 0422560	BRG23056KC3 422030	345,000	700
10-7/16	P4B056-USAF-1007TT 042463	H4S-056L-USAF 044201	BRG23056KC3 422030	345,000	700
10-1/2	P4B056-USAF-1008TT 042464	H4S-056L-USAF 044201	BRG23056KC3 422030	345,000	700

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# SELECTION/DIMENSIONS



## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

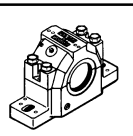
### 500 SERIES OPEN END HOUSING

Shaft Dia S-1	SNW Part No.	Triple Tect Part No.	TTDN Part No.	LER Part No.	Aux Part No.	End Cover
8	SNW44X800 043628	78TT800 043568	---	78LER800 042541	78AUX800 042394*	EC78 040685
8-7/16	SNP3048X807 043629	90TT807 043569	---	90LER807 042542	90AUX807 040897*	EC90 042368
8-1/2	SNP3048X808 043630	90TT808 043570	---	90LER808 042543	90AUX808 040898*	EC90 042368
8-15/16	SNP3048X815 043631	90TT815 043571	---	90LER815 042544		EC90 042368
9	SNP3048X900 043632	90TT900 043572	---	90LER900 042545	90AUX900 040995*	EC90 042368
9-7/16	SNP3052X907 043585	84TT907 043538	---	84LER907 042510	84AUX907 040900*	EC84 422606
9-1/2	SNP3052X908 422538	84TT908 022545	---	84LER908 042594	84AUX908 040901*	EC84 422606
9-15/16	SNP3056X915 043586	92TT915 043575	---	92LER915 042511		EC92 042369
10	SNP3056X1000 043633	92TT1000 043573	---	92LER1000 041082	92AUX1000 042395*	EC92 042369
10-7/16	SNP3056X1007 043580	94TT1007 047940	---	94LER1007 042036		EC94 040689
10-1/2	SNP3056X1008 0422567	94TT1008 047941	---	94LER1008 422573	94AUX1008 042396*	EC94 040689

\* Includes collar

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# SELECTION/DIMENSIONS



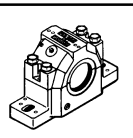
## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### 500 SERIES OPEN END HOUSING

Shaft Dia S-1	Complete Pillow Block Part #	Housing Part No. **	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	1-7/16" - 4-7/16" Seals			
							Triple Tect Part No.	Drop In Triple Tect Part No.	LER Part No.	Aux Tacomite Part No.
1-7/16	CP2B509-USAF-107TT 039575	CH2S-509-USAF 039665	BRG22209KC3 422134	20,800	5,600	H309-SNW-107 046350	08TT107 043578	---	08LER107 042193	
1-11/16	CP2B510--USAF-111TT 039576	CH2S-510-USAF 039666	BRG22210KC3 422137	22,000	5,300	H310-SNW-111 046351	10TT111 043579	---	10LER111 042199	
1-15/16	CP2B511-USAF-115TT 039577	CH2S-511-USAF 039667	BRG22211KC3 422123	27,000	4,500	H311-SNW-115 046352	12TT115 043540	12TTDN115 039582	12LER115 042512	12AUX115 041687
2-3/16	CP2B513-USAF-203TT 039578	CH2S-513-USAF 039668	BRG22213KC3 422124	38,000	3,800	H313-SNW-203 046353	14TT203 043541	14TTDN203 039583	14LER203 042513	14AUX203 041688
	CP4B513-USAF-203TT 039580	CH4S-513-USAF 039670	BRG22213KC3 422124	38,000	3,800	H313-SNW-203 046353	14TT203 043541	14TTDN203 039583	14LER203 042513	14AUX203 041688
2-7/16	CP2B515-USAF-207TT 039581	CH2S-515-USAF 039544	BRG22215KC3 422001	41,500	3,400	H315-SNW-207 046354	20TT207 043542	20TTDN207 039538	20LER207 042514	20AUX207 042380
	CP4B515-USAF-207TT 039582	CH4S-515-USAF 039545	BRG22215KC3 422001	41,500	3,400	H315-SNW-207 046354	20TT207 043542	20TTDN207 039538	20LER207 042514	20AUX207 042380
2-1/2	CP2B515-USAF-208TT 039583	CH2S-515-USAF 039544	BRG22215KC3 422001	41,500	3,400	H315-SNW-208 046355	20TT208 043543	20TTDN208 039854	20LER208 042515	20AUX208 040890
	CP4B515-USAF-208TT 039584	CH4S-515-USAF 039545	BRG22215KC3 422001	41,500	3,400	H315-SNW-208 046355	20TT208 043543	20TTDN208 039854	20LER208 042515	20AUX208 040890
2-11/16	CP2B516-USAF-211TT 039585	CH2S-516-USAF 039671	BRG22216KC3 422003	46,500	3,200	H316-SNW-211 046356	24TT211 043544	24TTDN211 039855	24LER211 042516	24AUX211 042381
	CP4B516-USAF-211TT 039586	CH4S-516-USAF 039672	BRG22216KC3 422003	46,500	3,200	H316-SNW-211 046356	24TT211 043544	24TTDN211 039855	24LER211 042516	24AUX211 042381
2-3/4	CP2B516-USAF-212TT 039587	CH2S-516-USAF 039671	BRG22216KC3 422003	46,500	3,200	H316-SNW-212 046357	24TT212 043545	24TTDN212 039856	24LER212 042517	24AUX212 040891
	CP4B516-USAF-212TT 039588	CH4S-516-USAF 039672	BRG22216KC3 422003	46,500	3,200	H316-SNW-212 046357	24TT212 043545	24TTDN212 039856	24LER212 042517	24AUX212 040891
2-15/16	CP2B517-USAF-215TT 039589	CH2S-517-USAF 039508	BRG22217KC3 422005	58,500	3,000	H317-SNW-215 046358	28TT215 043546	28TTDN215 039530	28LER215 042518	28AUX215 042382
	CP4B517-USAF-215TT 039590	CH4S-517-USAF 039509	BRG22217KC3 422005	58,500	3,000	H317-SNW-215 046358	28TT215 043546	28TTDN215 039530	28LER215 042518	28AUX215 042382
3	CP2B517-USAF-300TT 039591	CH2S-517-USAF 039508	BRG22217KC3 422005	58,500	3,000	H317-SNW-300 046359	28TT300 043547	28TTDN300 039857	28LER300 042519	28AUX300 040918
	CP4B517-USAF-300TT 039592	CH4S-517-USAF 039509	BRG22217KC3 422005	58,500	3,000	H317-SNW-300 046359	28TT300 043547	28TTDN300 039857	28LER300 042519	28AUX300 040918
3-3/16	CP2B518-USAF-303TT 039593	CH2S-518-USAF 039673	BRG22218KC3 422007	64,000	2,600	H318-SNW-303 046360	34TT303 043548	34TTDN303 039858	34LER303 042520	34AUX303 040892
	CP4B518-USAF-303TT 039594	CH4S-518-USAF 039674	BRG22218KC3 422007	64,000	2,600	H318-SNW-303 046360	34TT303 043548	34TTDN303 039858	34LER303 042520	34AUX303 040892
3-7/16	CP2B520-USAF-307TT 039595	CH2S-520-USAF 039675	BRG22220KC3 422009	80,000	2,200	H320-SNW-307 046361	46TT307 043549	46TTDN307 039859	46LER307 042522	46AUX307 042383
	CP4B520-USAF-307TT 039596	CH4S-520-USAF 039676	BRG22220KC3 422009	80,000	2,200	H320-SNW-307 046361	46TT307 043549	46TTDN307 039859	46LER307 042522	46AUX307 042383
3-1/2	CP2B520-USAF-308TT 039597	CH2S-520-USAF 039675	BRG22220KC3 422009	80,000	2,200	H320-SNW-308 046362	46TT308 043550	46TTDN308 039860	46LER308 042522	46AUX308 040919
	CP4B520-USAF-308TT 039598	CH4S-520-USAF 039676	BRG22220KC3 422009	80,000	2,200	H320-SNW-308 046362	46TT308 043550	46TTDN308 039860	46LER308 042522	46AUX308 040919
3-15/16	CP4B522-USAF-305TT 039599	CH4S-522-USAF 039677	BRG22222KC3 422011	102,000	2,000	H322-SNW-315 046363	50TT315 043551	50TTDN315 039861	50LER315 042523	50AUX315 042384
4	CP4B522-USAF-400TT 039600	CH4S-522-USAF 039677	BRG22222KC3 422011	102,000	2,000	H322-SNW-400 046364	50TT400 043552	50TTDN400 039862	50LER400 042524	50AUX400 040893
4-3-16	CP4B524-USAF-403TT 039601	CH4S-524-USAF 039678	BRG22224KC3 422013	120,000	1,900	H3124-SNW-403 046430	52TT403 043553	52TTDN403 039863	52LER403 042525	52AUX403 044360
4-7/16	CP4B526-USAF-407TT 039602	CH4S-526-USAF 039679	BRG22226KC3 422015	143,000	1,800	H3126-SNW-407 046431	54TT407 043554	54TTDN407 039864	54LER407 042526	54AUX407 042385
4-1/2	CP4B526-USAF-408TT 039603	CH4S-526-USAF 039679	BRG22226KC3 422015	143,000	1,800	H3126-SNW-408 046432	54TT408 043555	54TTDN408 039865	54LER408 042527	54AUX408 042386
4-15/16	CP4B528-USAF-415TT 039604	CH4S-528-USAF 039680	BRG22228KC3 422017	166,000	1,700	H3128-SNW-415 046433	56TT415 043556	56TTDN415 039866	56LER415 042528	56AUX415 042387

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# SELECTION/DIMENSIONS



## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

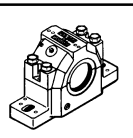
### 500 SERIES OPEN END HOUSING

Shaft Dia S-1	Complete Pillow Block Part #	Housing Part No. **	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	5" - 1--2/2" Seals			
							Triple Tect Part No.	Drop In Triple Tect Part No.	LER Part No.	Aux Taconite Part No.
5	CP4B528-USAF-500TT 039605	CH4S-528-USAF 039680	BRG22228KC3 422017	166,000	1,700	H3128-SNW-500 046434	56TT500 043557	56TTDN500 039867	56LER500 042529	56AUX500 040894
5-3/16	CP4B530-USAF-503TT 039138	CH4S-530-USAF 039217	BRG2223KC3 422019	190,000	1,600	SNW30X503 043618	58TT503 043558	---	58LER503 042530	
5-7/16	CP4B532-USAF-507TT 039141	CH4S-532-USAF 039218	BRG22232KC3 422021	216,000	1,500	SNW32X507 043619	60TT507 043559	---	60LER507 042531	60AUX507
5-1/2	CP4B532-USAF-508TT 039142	CH4S-532-USAF 039218	BRG22232KC3 422021	216,000	1,500	SNW32X508 043634	60TT508 043574	---	60LER508 042532	60AUX508 040895
5-15/16	CP4B534-USAF-515TT 039147	CH4S-534-USAF 039219	BRG22234KC3 422023	250,000	1,300	SNW32X515 043620	64TT515 043560	---	64LER515 042533	64AUX515 042389
6	CP4B534-USAF-600TT 039148	CH4S-534-USAF 039219	BRG22234KC3 422023	250,000	1,300	SNW34X600 043621	64TT600 043561	---	64LER600 042534	64AUX600 041646
6-7/16	CP4B536-USAF-607TT 039151	CH4S-536-USAF 039220	BRG22236KC3 422025	255,000	1,300	SNW36X607 043622	68TT607 042562	---	68LER607 042535	68AUX607 042390
6-1/2	CP4B536-USAF-608TT 039152	CH4S-536-USAF 039220	BRG22236KC3 422025	255,000	1,300	SNW36X608 043623	68TT608 043563	---	68LER608 042536	68AUX608 042391
6-15/16	CP4B538-USAF-615TT 039155	CH4S-538-USAF 039221	BRG22238KC3 422027	270,000	1,200	SNW38X615 043624	72TT615 043564	---	72LER615 042537	72AUX615 042392
7	CP4B538-USAF-700TT 039156	CH4S-538-USAF 039221	BRG22238KC3 422027	270,000	1,200	SNW38X700 043625	72TT700 043565	---	72LER700 042538	72AUX700 043109
7-3/16	CP4B540-USAF-703TT 039159	CH4S-540-USAF 039222	BRG22240KC3 422064	300,000	900	SNW40X703 046545	74TT703 046421	---	74LER703 043386	74AUX703 040690
7-1/2	CP4B544-USAF-708TT 039160	CH4S-544S-USAF 039223	BRG22244KC3 422029	365,000	950	SNW44X708 043627	76TT708 043567	---	76LER708 042539	76AUX708 040896
7-15/16	CP4B544-USAF-715TT 039163	CH4S-544-USAF 039224	BRG22244KC3 422029	365,000	950	SNW44X715 043626	78TT715 043566	---	78LER715 042540	78AUX715 042393*
8	CP4B544-USAF-800TT 039164	CH4S-544-USAF 039224	BRG22244KC3 422029	365,000	950	SNW44X800 043628	78TT800 043568	---	78LER800 042541	78AUX800 042394*
8-7/16	CP4B048-USAF-807TT 039165	CH4S-048-USAF 039225	BRG23048KC3 422031	260,000	800	SNP3048X807 043629	90TT807 043569	---	90LER807 042542	90AUX807 040897*
8-1/2	CP4B048-USAF-808TT 039166	CH4S-048-USAF 039225	BRG23048KC3 422031	260,000	800	SNP3048X808 043630	90TT808 043570	---	90LER808 042543	90AUX808 040898*
8-15/16	CP4B048-USAF-815TT 039167	CH4S-048-USAF 039225	BRG23048KC3 422031	260,000	800	SNP3048X815 043631	90TT815 043571	---	90LER815 042544	
9	CP4B048-USAF-900TT 039167	CH4S-048-USAF 039225	BRG23048KC3 422031	260,000	800	SNP3048X900 043632	90TT900 043572	---	90LER900 042545	90AUX900 040995*
9-7/16	CP4B052-USAF-907TT 039169	CH4S-052-USAF 039226	BRG23052KC3 422543	340,000	750	SNP3052X907 043585	84TT907 043538	---	84LER907 042510	84AUX907 040900*
9-1/2	CP4B052-USAF-908TT 039170	CH4S-052-USAF 039226	BRG23052KC3 422543	340,000	750	SNP3052X908 422538	84TT908 022545	---	84LER908 042594	84AUX908 040901*
9-15/16	CP4B056-USAF-915TT 039171	CH4S-056-USAF 039227	BRG23056KC3 422030	345,000	700	SNP3056X915 043586	92TT915 043575	---	92LER915 042511	
10	CP4B056-USAF-1000TT 039172	CH4S-056-USAF 039227	BRG23056KC3 422030	345,000	700	SNP3056X1000 043633	92TT1000 043573	---	92LER1000 041082	92AUX1000 042395*
10-7/16	CP4B056-USAF-1007TT 039173	CH4S-056L-USAF 039228	BRG23056KC3 422030	345,000	700	SNP3056X1007 043580	94TT1007 047940	---	94LER1007 042036	
10-1/2	CP4B056-USAF-1008TT 039174	CH4S-056L-USAF 039228	BRG23056KC3 422030	345,000	700	SNP3056X1008 0422567	94TT1008 047941	---	94LER1008 0422573	94AUX1008 042396*

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# SELECTION/DIMENSIONS



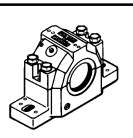
## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### USDAF HOUSING

Shaft Dia	Housing	Open Housing Part No.**	Closed Housing Part No.**	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	Triple Tect Part No.	LER Part No.	Aux Part No.
8-15/16	3248	H4S-USDAF-3284 037646	CH4S-USDAF-3284 037465	23248K 422511	560,000	700	H3248-SNP-815 047628	90TT815 042544	90LER815 042544	90AUX815 040899
9	3248	H4S-USDAF-3284 037646	CH4S-USDAF-3284 037465	23248K 422511	560,000	700	H3248-SNP-900 047629	90TT900 043572	90LER900 042545	90AUX900 040995
9-7/16	3152	H4S-USDAF-3152 037641	CH4S-USDAF-3152 037462	23152K 421294	490,000	670	H3152-SNP-907 047630	84TT908 043538	84LER907 042510	84AUX907 040900
	3252	H4S-USDAF-3252 037442	CH4S-USDAF-3252 037443	23252K 421290	665,000	630	H3252-SNP-907 047646	84TT907 043538	84LER907 042510	84AUX907 040900
9-1/2	3152	H4S-USDAF-3152 037641	CH4S-USDAF-3152 037462	23152K 421294	490,000	670	H3152-SNP-908 047631	84TT908 422545	84LER908 422594	84AUX908 040901
	3252	H4S-USDAF-3252 037442	CH4S-USDAF-3252 037443	23252K 421290	655,000	630	H3252-SNP-908 047647	84TT908 422545	84LER908 422594	84AUX908 040901
10-7/16	3156	H4S-USDAF-3156 037432	CH4S-USDAF-3156 037433	23156K 421285	530,000	630	H3156SNP-1007 045431	94TT1007 047940	94LER1007 042036	94AUX1007 045778
	3256	H4S-USDAF-3256 037444	CH4S-USDAF-3256 037446	23256K 421291	680,000	600	H325-SNP-1007 047648	94TT1007 047940	94LER1007 042036	94AUX1007 045778
10-1/2	3156	H4S-USDAF-3156 037432	CH4S-USDAF-3156 037433	23156K 421285	530,000	630	H3156-SNP-1008 047637	94TT1008 047941	94LER1008 422573	94AUX1008 042396
	3256	H4S-USDAF-3256 037444	CH4S-USDAF-3256 037446	23256K 421291	680,000	600	H3256-SNP-1008 047649	94TT1008 047941	94LER1008 422573	94AUX1008 042396
10-15/16	060	H4S-USDAF-060 422580	CH4S-USDAF-060 037426	23060K 422582	440,000	630	H3060-SNP-1015 043581	96TT1015 047942	96LER1015 042037	96AUX1015 045781
	3160	H4S-USDAF-3160 037434	CH4S-USDAF-3160 037435	23160K 421286	600,000	600	H3160-SNP-1015 047638	96TT1015 047942	96LER1015 042037	96AUX1015 045781
	3260	H4S-USDAF-3260 037447	CH4S-USDAF-3260 037448	23260K 421292	780,000	560	H3260-SNP-1015 047678	96TT1015 047942	96LER1015 042037	96AUX1015 045781
11	060	H4S-USDAF-060 422580	CH4S-USDAF-060 037426	23060K 422582	440,000	630	H3060-SNP-1100 422576	96TT1100 047943	96LER1100 422588	96AUX1100 044440
	3160	H4S-USDAF-3160 037434	CH4S-USDAF-3160 037435	23160K 421286	600,000	600	H3160-SNP-1100 045464	96TT1100 047943	96LER1100 422588	96AUX1100 044440
	3260	H4S-USDAF-3260 037447	CH4S-USDAF-3260 037448	23260K 421292	780,000	560	H3260-SNP-1100 047679	96TT1100 047943	96LER1100 422588	96AUX1100 044440
11-7/16	064	H4S-USDAF-064 422502	CH4S-USDAF-064 037427	23064K 422531	455,000	600	H3064-SNP-1107 043582	98TT1107 047944	98LER1107 042038	98AUX1107 045784
11-1/2	064	H4S-USDAF-064 422502	CH4S-USDAF-064 037427	23064K 422531	455,000	600	H3064-SNP-1108 043583	98TT1108 047945	98LER1108 042039	98AUX1107 045787
11-15/16	064L	H4S-USDAF-064L 422529	CH4S-USDAF-064L 037428	23064K 422531	455,000	600	H3064L-SNP-1115 043584	100TT1115 047946	100ER1115 042040	100AUX1115 045790
	3164	H4S-USDAF-3164 037436	CH4S-USDAF-3164 037437	23164K 421287	720,000	530	H3164-SNP-1115 047639	100TT1115 047946	100ER1115 042040	100AUX1115 045790
	3264	H4S-USDAF-3264 037446	CH4S-USDAF-3264 037450	23264K 422844	865,000	530	H3264-SNP-1115 047680	100TT1115 047946	100ER1115 042040	100AUX1115 045790

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# SELECTION/DIMENSIONS



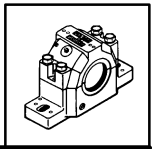
## USAF 500 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### USDAF HOUSING

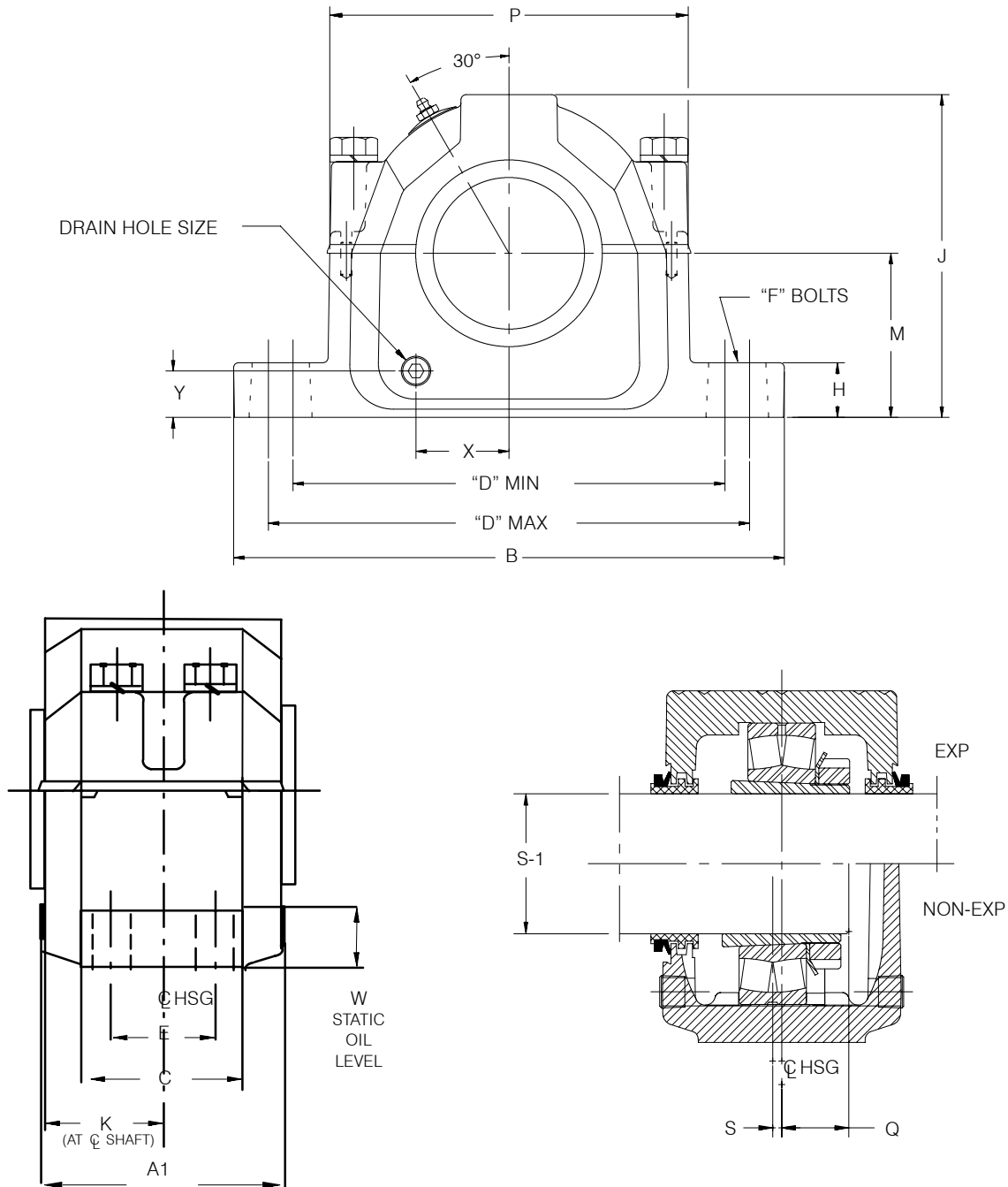
Shaft Dia	Housing	Open Housing Part No.**	Closed Housing Part No.**	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	Triple Tect Part No.	LER Part No.	Aux Part No.
12	064L	H4S-USDAF-064L 422529	CH4S-USDAF-064L 037428	23064K 422531	455,000	600	H3064L-SNP-1200 422525	100TT1200 047947	100ER1200 422535	100AUX1200 045793
	3164	H4S-USDAF-3164 037436	CH4S-USDAF-3164 037437	23164K 421287	720,000	530	H3164-SNP-1200 050531	100TT1200 047947	100ER1200 422535	100AUX1200 045793
	3264	H4S-USDAF-3264 037446	CH4S-USDAF-3264 037450	23264K 422844	865,000	530	H3264-SNP-1200 422843	100TT1200 047947	100ER1200 422535	100AUX1200 045793
12-7/16	068	H4S-USDAF-068 035183	CH4S-USDAF-068 035185	23068K 421282	530,000	560	H3064-SNP-1207 047635	102TT1207 047948	102ER1207 046498	102AUX1207 046567
	3168	H4S-USDAF-3168 035945	CH4S-USDAF-3168 035946	23168K 52081	830,000	500	H3168-SNP-1207 047641	102TT1207 047948	102ER1207 046498	102AUX1207 046567
	3268	H4S-USDAF-3268 037451	CH4S-USDAF-3268 037452	23268K 421293	1,000,000	480	H328-SNP-1207 047681	102TT1207 047948	102ER1207 046498	102AUX1207 046567
12-1/2	068	H4S-USDAF-068 035183	CH4S-USDAF-068 035185	23068K 421282	530,000	560	H3068-SNP-1207 047635	102TT1208 047949	102ER1208 046499	102AUX1208 046568
	3168	H4S-USDAF-3168 035945	CH4S-USDAF-3168 035946	23168K 52081	830,000	500	H3168-SNP-1208 047642	102TT1208 047949	102ER1208 046499	102AUX1208 046568
	3268	H4S-USDAF-3268 037451	CH4S-USDAF-3268 037452	23268K 421293	1,000,000	480	H3268-SNP-1208 047682	102TT1208 047949	102ER1208 046499	102AUX1208 046568
12-15/16	072	H4S-USDAF-072 044164	CH4S-USDAF-072 037429	23072K 422036	550,000	530	H3072-SNP-1215 043635	104TT1215 047950	104ER1215 042090	102AUX1215 045796
13	072	H4S-USDAF-072 044164	CH4S-USDAF-072 037429	23072K 422036	550,000	530	H3072-SNP-1300 043636	104TT1300 047951	072ER1300 042091	104AUX1300 045799
13-7/16	072L	H4S-USDAF-072L 044165	CH4S-USDAF-072L 037430	23072K 422036	550,000	530	H3072L-SNP-1307 043637	106TT1307 047952	106ER1307 042092	106AUX1307 045802
	3172	H4S-USDAF-3172 037438	CH4S-USDAF-3172 037439	23172K 421288	850,000	480	H3172-SNP-1307 047643	106TT1307 047952	106ER1307 042092	106AUX1307 045802
13-1/2	072L	H4S-USDAF-072L 044165	CH4S-USDAF-072L 037430	23072 422036	550,000	530	H3072L-SNP-1308 043638	106TT1308 047953	106ER1308 042093	106AUX1308 045805
	3172	H4S-USDAF-3172 037438	CH4S-USDAF-3172 037439	23172K 421288	850,000	480	H3172-SNP-1308 045434	106TT1308 047953	106ER1308 042093	106AUX1308 045805
13-15/16	076	H4S-USDAF-076 044166	CH4S-USDAF-076 037431	23076K 422054	570,000	500	H3076-SNP-1315 043639	108TT1315 047954	108ER1315 042094	108AUX1315 045808
	3176	H4S-USDAF-3176 037440	CH4S-USDAF-3176 037441	23176K 421289	915,000	450	H3176-SNP-1315 047644	108TT1315 047954	108ER1315 042094	108AUX1315 045808
14	076	H4S-USDAF-076 044166	CH4S-USDAF-076 037431	23076K 422054	570,000	500	H3076-SNP-1400 043640	108TT1400 047955	108ER1400 042095	108AUX1400 046569
	3176	H4S-USDAF-3176 037440	CH4S-USDAF-3176 037441	23176K 421289	915,000	450	H3176-SNP-1400 047645	108TT1400 047955	108ER1400 042095	108AUX1400 046569
15	080	H4S-USDAF-080 035417	CH4S-USDAF-080 035418	23080K 421283	680,000	450	H3080-SNP-1500 040830	110TT1500 047956	080ER1500 050474	110AUX1500 046570
15-3/4	084	H4S-USDAF-084 035943	CH4S-USDAF-084 035944	23084K 421284	710,000	450	H3084-SNP-1512 047636	112TT1512 047957	112ER1512 046566	112AUX1512 046572

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# SELECTION/DIMENSIONS



## USAF 500 Housing Dimensions



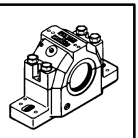
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# SELECTION/DIMENSIONS



## USAF 500 Housing Dimensions

USAF 500 HOUSING DIMENSIONS — INCH											
S-1 SHAFT SIZE	HOUSING	A1▲	B	C	D				E	F BOLT DIA.	
					2-BOLT		4-BOLT			2-BOLT	4-BOLT
					MIN	MAX	MIN	MAX			
1-7/16	509	37/8	8-1/4	2-3/8	6-1/4	7	—	—	—	1/2	
1-11/16	510	4-1/16	8-1/4	2-11/32	6-1/2	7	—	—	—	1/2	
1-15/16	511	4-1/4	9-5/8	2-3/4	7-3/8	8-1/4	—	—	—	5/8	
2-3/16	513	4-41/64	11	3-1/8	8-1/8	9-1/2	8-1/8	9-1/2	1-7/8	5/8	1/2
2-7/16 2-1/2	515	5-13/64	11-1/8	3-1/8	8-5/8	9-5/8	8-5/8	9-5/8	1-7/8	5/8	1/2
2-11/16 2-3/4	516	5-7/16	12-19/32	3-1/2	9-5/8	11	9-5/8	11	2-1/8	3/4	5/8
2-15/16 3	517	5-25/64	12-19/32	3-1/2	9-7/8	11	9-7/8	11	2-1/8	3/4	5/8
3-3/16	518	6-5/32	13-5/8	3-7/7	10-1/4	11-3/4	10-3/8	11-5/8	2-1/8	3/4	5/8
3-7/16 3-1/2	520	6-25/32	15-23/64	4-11/32	11-5/8	13-1/8	11-5/8	13-1/8	2-3/8	7/8	3/4
3-15/16 4	522	7-5/64	16-1/2	4-3/4	—	—	12-19/32	14-1/2	2-3/4	—	3/4
4-3/16	524	8-3/64	16-1/2	4-23/32	—	—	13-1/4	14-1/2	2-3/4	—	3/4
4-7/16 4-1/2	526	8-17/64	18-3/8	5-1/8	—	—	14-1/2	16	3-1/4	—	7/8
4-15/16 5	528	8-49/64	19-11/16	5-7/8	—	—	15-5/8	17-3/8	3-3/8	—	1

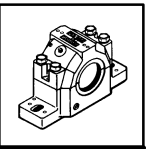
S-1 SHAFT SIZE	HOUSING	H	J	K	M	P	Q ★	S ●	W STATIC OIL LEVEL	X	Y	DRAIN HOLE SIZE
1-7/16	509	7/8	4-19/64	1-25/32	2-1/4	4-7/8	1-1/32	1/8	59/64	1-3/32	5/8	1/8-27NPSI
1-11/16	510	1-1/32	4-37/64	1-7/8	2-1/2	5-1/8	1-7/64	1/8	1-5/64	1-1/4	13/16	1/8-27NPSI
1-15/16	511	1-1/32	5-1/4	1-31/32	2-3/4	5-25/32	1-13/64	1/8	1-5/32	1-15/16	53/64	1/8-27NPSI
2-3/16	513	1-1/32	5-15/16	2-5/32	3	6-1/2	1-3/8	5/32	1-7/64	1-21/32	25/32	1/8-27NPSI
2-7/16 2-1/2	515	1-1/4	6-7/16	2-5/16	3-1/4	7-1/16	1-25/64	1/8	1-5/32	1-25/32	7/8	1/4-18NPSF
2-11/16 2-3/4	516	1-1/16	6-3/4	2-27/64	3-1/2	7-15/16	1-7/16	3/16	1-1/4	1-31/32	61/64	1/4-18NPSF
2-15/16 3	517	1-1/4	7-3/8	2-15/32	3-3/4	8-3/16	1-1/2	3/16	1-3/8	2-1/8	1-1/16	3/8-18NPSF
3-3/16	518	1-7/16	7-3/4	2-27/32	4	8-21/32	1-23/32	3/16	1-15/32	2-1/4	1-1/8	3/8-18NPSF
3-7/16 3-1/2	520	1-21/32	8-3/4	3-5/32	4-1/2	9-25/32	1-59/64	3/16	1-41/64	2-5/8	1-1/4	3/8-18NPSF
3-15/16 4	522	1-25/32	9-13/32	3-19/64	4-15/16	10-19/32	2-3/32	3/16	1-51/64	2-7/8	1-11/32	3/8-18NPSF
4-3/16	524	1-1/2	10-1/4	3-41/64	5-1/4	11-1/4	2-9/32	3/16	1-27/32	3-3/16	1-3/8	1/2-14NPSF
4-7/16 4-1/2	526	2-1/16	11-17/32	3-3/4	6	12-13/32	2-15/32	3/16	2-11/32	3-5/16	1-5/8	1/2-14NPSF
4-15/16 5	528	2-1/16	11-13/16	4	6	13-1/4	2-29/64	3/16	2-1/32	3-5/8	1-15/32	1/2-14NPSF

- ▲ Housing width with drain plugs
- ★ Distance shaft should extend beyond housing centerline if pillow block is closed end style
- Non-expansion bearing offset from centerline. For expansion bearing S = 0.

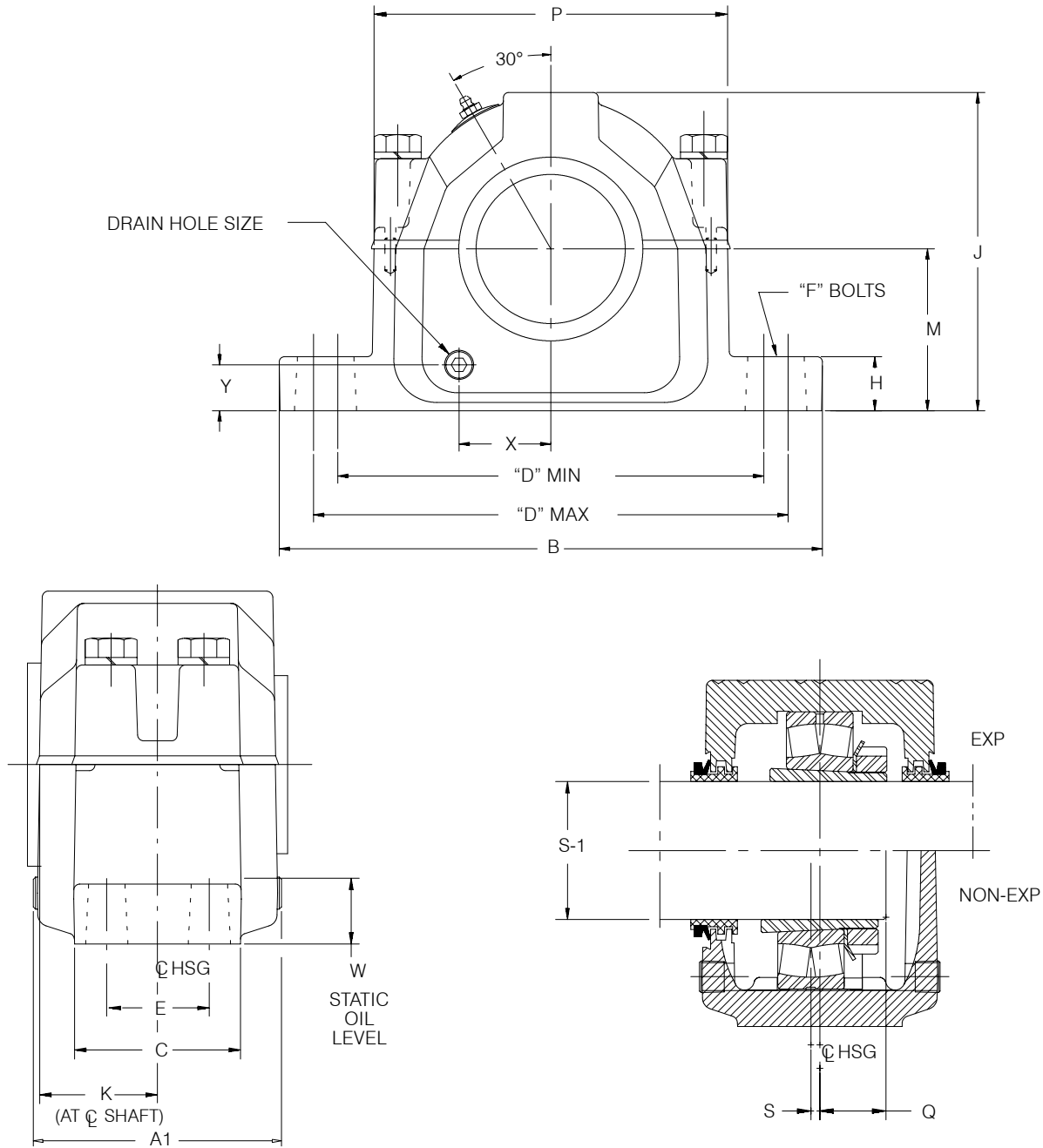
Dowel hole locations for Precision Positioning, see Page B9-30 – B9-31

500 SERIES PAGE B9-38	600 SERIES PAGE B9-82	200 SERIES PAGE B9-86	300 SERIES PAGE B9-86
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# SELECTION/DIMENSIONS

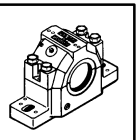


## USAF 500 Housing Dimensions



SDAF PAGE B9-46	SPLIT-SPHER PAGE B9-32	SAF-XT PAGE B9-73	SAFS PAGE B9-80
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# SELECTION/DIMENSIONS



## USAF 500 Housing Dimensions

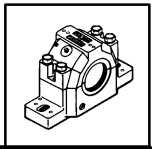
USAF 500 HOUSING DIMENSIONS — INCH												
S-1 SHAFT SIZE	HOUSING	A1 ▲	B	C	D				E	F BOLT DIA.		
					2-BOLT		4-BOLT			2-BOLT	4-BOLT	
					MIN	MAX	MIN	MAX				
5-3/16	530	9-23/64	20-7/8	6-1/4	—	—	16-3/4	18-1/4	3-3/4	—	1	
5-7/16 5-1/2	532	9-59/64	21-21/32	6-1/4	—	—	17-3/8	19-1/4	3-3/4	—	1	
5-15/16 6	534	9-29/32	24-3/4	6-3/4	—	—	19-3/8	21-5/8	4-1/4	—	1	
6-7/16 6-1/2	536	10-13/32	26-3/4	7/8	—	—	20-7/8	23-5/8	4-5/8	—	1	
6-15/16 7	538	10-13/16	28	7-1/2	—	—	21-5/8	24-3/8	4-1/2	—	1-1/4	
7-3/16	540	11-17/32	28-3/4	8	—	—	22-1/2	25	5	—	1-1/4	
7-1/2	544S	12-19/64	32-3/4	8-7/8	—	—	24-3/4	27-7/8	5-1/4	—	1-1/2	
7-15/16 8	544											
8-7/16 8-1/2 8-15/16 9	048	11-17/32	28-3/4	8	—	—	22-1/2	25	5	—	1-1/4	
9-7/16 9-1/2	052	12-19/64	32-3/4	8-7/8	—	—	24-3/4	27-7/8	5-1/4	—	1-1/2	
9-15/16 10	056	13-21/32	34-1/4	9	—	—	26-1/4	29-1/2	5-1/2	—	1-1/2	
10-7/16 10-1/2	056L											

S-1 SHAFT SIZE	HOUSING	H	J	K	M	P	Q ★	S ●	W STATIC OIL LEVEL	X	Y	DRAIN HOLE SIZE
5-3/16	530	2-3/8	12-1/2	4-21/64	6-5/16	14-5/16	2-39/64	3/16	2-1/32	3-19/32	1-21/64	1/2-14NPSF
5-7/16 5-1/2	532	2-11/16	13-5/16	4-5/8	6-11/16	14-29/32	2-31/32	3/16	2-3/32	4-1/32	1-21/64	1/2-14NPSF
5-15/16 6	534	2-7/8	14-9/16	4-5/8	7-1/16	16-13/16	3-1/8	3/16	2-3/16	4-5/32	1-21/64	1/2-14NPSF
6-7/16 6-1/2	536	3	15-1/8	4-7/8	7-1/2	17-3/16	3-5/32	3/16	2-27/64	4-7/32	1-5/8	1/2-14NPSF
6-15/16 7	538	3-1/8	15-13/16	5-1/16	7-7/8	18	3-19/64	3/16	2-17/32	4-3/4	1-39/64	1/2-14NPSF
7-3/16	540	3-3/8	16-5/8	5-7/16	8-1/4	19	3-1/2	3/16	2-15/32	4-29/32	1-17/32	1/2-14NPSF
7-1/2	544S	3-3/4	18-7/8	51-3/16	9-1/2	21-1/4	3-47/64	3/16	3-1/4	5-7/16	2-1/32	1/2-14NPSF
7-15/16 8	544											
8-7/16 8-1/2 8-15/16 9	048	3-3/8	16-5/8	5-7/16	8-1/4	19	3-9/16	0	2-1/4	4-29/32	1-17/32	1/2-14NPSF
9-7/16 9-1/2	052	3-3/4	18-7/8	5-13/16	9-1/2	21-1/4	3-7/8	0	2-57/64	5-7/16	2-1/32	1/2-14NPSF
9-15/16 10	056	4	20	6-3/8	9-7/8	22-5/16	4	0	2-23/64	5-13/16	2-1/16	1/2-14NPSF
10-7/16 10-1/2	056L											

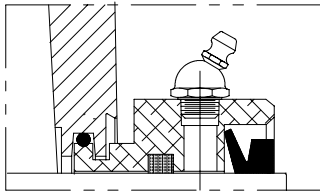
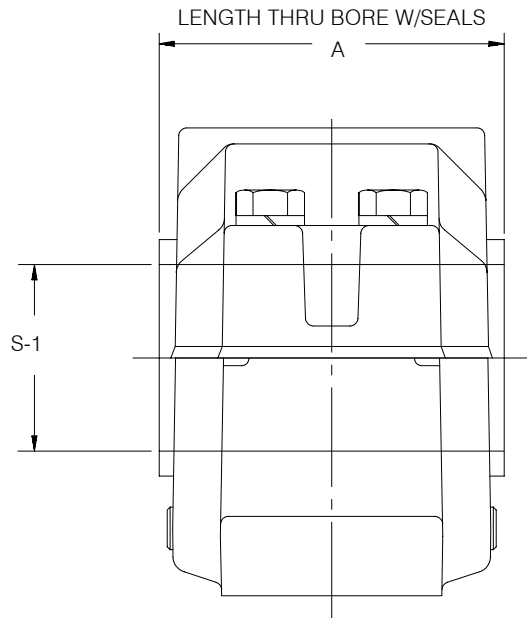
- ▲ Housing width with drain plugs
- ★ Distance shaft should extend beyond housing centerline if pillow block is closed end style
- Non-expansion bearing offset from centerline. For expansion bearing S = 0.

SPECIFICATIONS PAGE B9-7	HOW TO ORDER PAGE B9-8	NOMENCLATURE PAGE B9-9	SELECTION/DIMENSIONS PAGE B9-15
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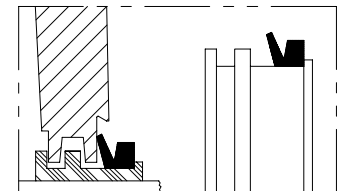
# SELECTION/DIMENSIONS



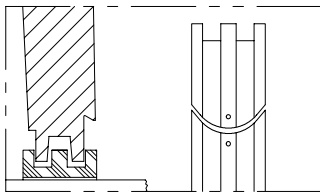
## USAF 500 Pillow Block Seals



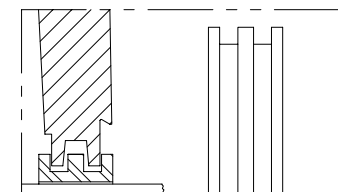
**AUXILIARY TACONITE Seal**  
For dusty environments and low to moderate speeds



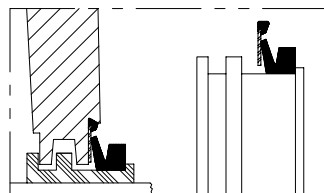
**TRIPLE-TECT Seal**  
General purpose seal for wet or dirty environments



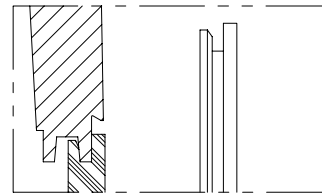
**SPLIT Seal**  
Permits easy installation in hard-to-reach applications without removing shaft. Non-metallic split LER. See page B9-68 for SPLIT Seal part numbers.



**LER Seal**  
High speed seal for relatively clean environments



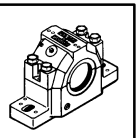
**DROP-IN TRIPLE-TECT Seal**  
DODGE exclusive. Popular TRIPLE-TECT features with simplified installation.



**END COVER Seal**  
Allows use of open shaft housing as closed-end

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# SELECTION/DIMENSIONS



## USAF 500 Pillow Block Seals

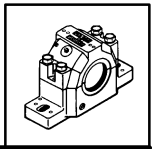
500 SEALS — INCH											
S-1 SHAFT SIZE (INCH)	HOUSING	SEAL GROUP	PART NUMBERS					A			
			TRIPLE- TECT (TT)	TRIPLE-TECT DROP-IN (TTDN)	METAL LABYRINTH (LER)	AUXILIARY TACONITE (AUX)	END COVER	TT	TTDN	LER	AUX
1-7/16	509	08	043578	—	042193	041685	040700	3-31/32	3-31/32	3-27/64	6-9/16
1-11/16	510	10	043579	—	042199	041686	040701	4-9/64	4-9/64	3-39/64	64-7/64
1-15/16	511	12	043540	039852	042512	041687	040702	4-11/32	4-11/32	3-53/64	6-11/16
2-3/16	513	14	043541	039853	042513	041688	040703	4-23/32	4-23/32	4-3/16	7-9/16
2-7/16 2-1/2	515	20	043542 043543	039538 039854	042514 042515	042380 040890	040704 040704	4-15/16	4-15/16	4-15/32	7-15/32
2-11/16 2-3/4	516	24	043544 043545	039855 039856	042516 042517	042381 040891	040705 040705	5-21/64	5-21/64	4-23/32	7-23/32
2-15/16 3	517	28	043546 043547	039530 039857	042518 042519	042382 040918	040706 040706	5-7/16	57/16	4-53/64	7-61/64
3-3/16	518	34	043548	039858	042520	040892	040707	6-13/64	6-13/64	5-45/64	8-17/64
3-7/16 3-1/2	520	46	043549 043550	039859 039860	042521 042522	042383 040919	040708 040708	6-25/32	6-25/32	6-3/16	91/16
3-15/16 4	522	50	043551 043552	039861 039862	042523 042524	042384 040893	040709 040709	7-1/6	7-1/8	6-19/32	9-3/64
4-3/16	524	52	043553	039863	042525	044360	040710	7-29/32	7-19/32	7-5/16	—
4-7/16 4-1/2	526	54	043554 043555	039864 039865	042526 042527	042385 042386	040711 040711	8-5/64	8-5/64	7-1/2	10-5/8
4-15/16 5	528	56	043556 043557	039866 039867	042528 042529	042387 040894	040712 040712	8-15/32	8-15/32	7-7/8	11-1/8
5-3/16	530	58	043558	—	042530	—	040713	9-9/32	9-9/32	8-45/64	—
5-7/16 5-1/2	532	60	043559 043574	— —	042531 042532	042388 040895	040714 040714	9-25/32	9-25/32	9-13/64	11-51/64
5-15/16 6	534	64	043560 043561	— —	042533 042534	042389 041646	040681 040681	9-53/64	9-53/64	9-1/8	11-7/8
6-7/16 6-1/2	536	68	043562 043563	— —	042535 042536	042390 042391	040682 040682	10-25/64	10-25/64	9-11/16	12-15/16
6-15/16 7	538	72	043564 043565	— —	042537 042538	042392 043109	040683 040683	10-11/16	10-11/16	9-63/64	13-15/64
7-3/16	540	74	046421	—	043386	040690	040691	11-7/16	—	10-23/32	15-9/32
7-1/2	544S	76	043567	—	042539	040896	040684	—	—	—	—
7-15/16 8	544	78	043566 043568	— —	042540 042541	042393* 042394*	040685 040685	12-1/8	12-1/8	11-13/32	15-31/32 *
8-7/16 8-1/2 8-15/16 9	048	90	043569 043570 043571 043572	— — — —	042542 042543 042544 042545	040897* 040898* 040899* 040995*	042368 042368 042368 042368	12-1/16	—	11-23/32	15-17/32 *
9-7/16 9-1/2	052	84	043538 422545	— —	042510 042594	040900* 040901*	422606 422606	12-49/64	—	11-13/32	16-7/32*
9-15/16 10	056	92	043575 043573	— —	042511 041082	— 042395*	042369 042369	13-59/64	—	12-21/32	17-1/8*
10-7/16 10-1/2	056L	94	047940 047941	— —	042036 422573	— 042396*	040689 040689	14-3/64	—	12-21/32	17-1/8*

\* Includes collar

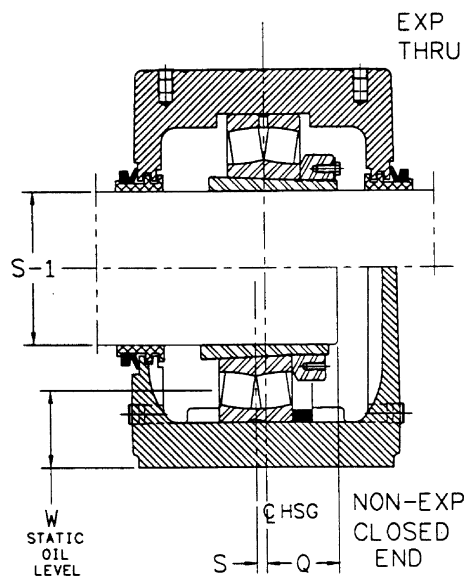
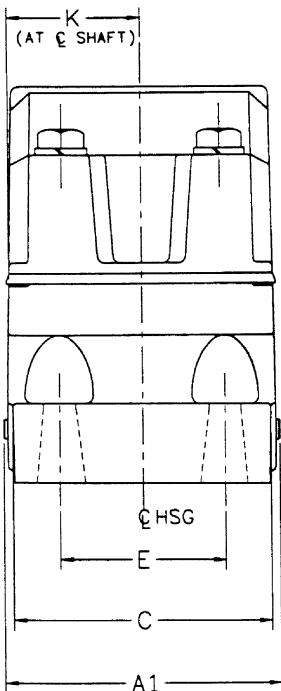
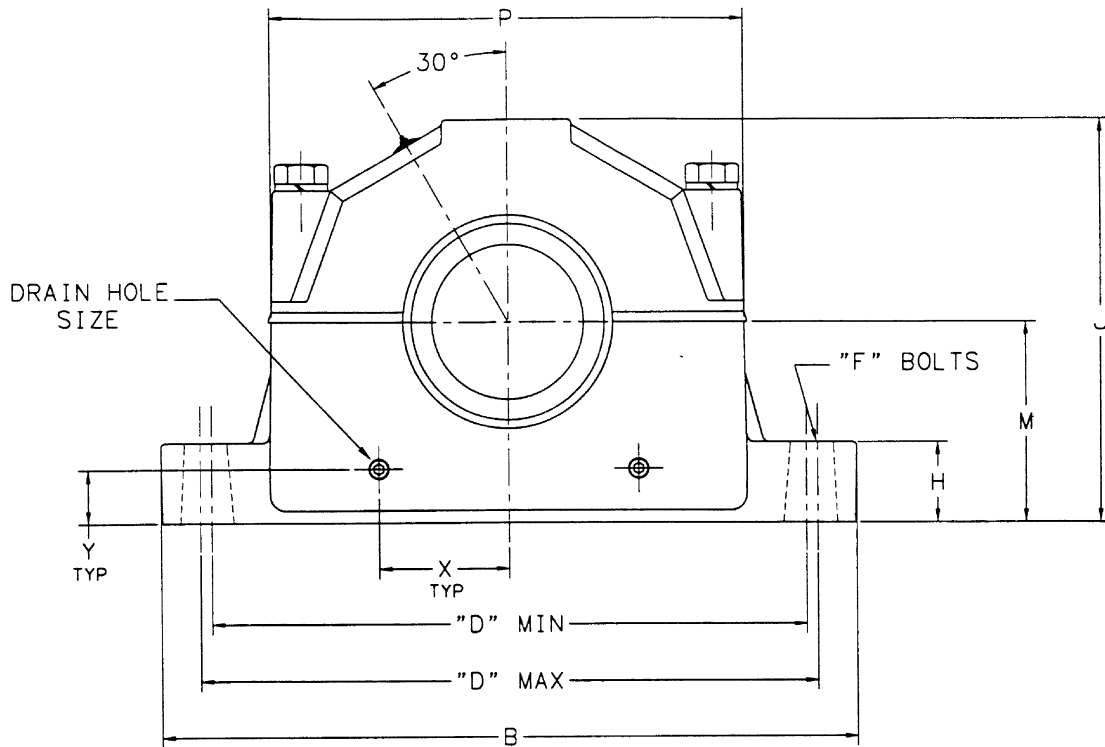
SDAF PAGE B9-46	SPLIT-SPHER PAGE B9-32	SAF-XT PAGE B9-73	SAFS PAGE B9-80
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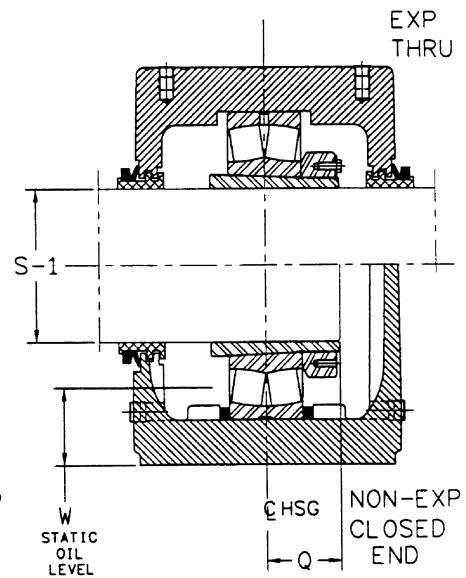
# SELECTION/DIMENSIONS



## USDAF Housing Dimensions



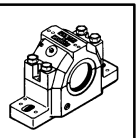
23000 SERIES  
(REQUIRES (1)  
STABILIZING RING)



23100, 23200 SERIES  
(REQUIRES (2)  
STABILIZING RINGS)

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# SELECTION/DIMENSIONS



## USDAF Housing Dimensions

S-1 SHAFT SIZE	HOUSING	BEARING NUMBER	HOUSING PART NO.		A1 ▲	B	C	D		E	F BASE BOLT SIZE 4-REQ'D	H	J
			THRU	CLOSED END				MIN	MAX				
9-7/16 9-1/2	3152	23152K	037461◆	037462◆	16-23/64	38-1/4	14-3/4	31-5/8	34-5/8	9	1-5/8	3-3/8	23-7/16
	3252	23252K	037442	037443									
10-7/16 10-1/2	3156	23156K	037432	037433									
	3256	23256K	037444	037446									
10-15/16 11	060	23060K	422580	037426									
	3160	23160K	037434	037435									
11-7/16 11-1/2	064	23064K	422502	037427									
11-15/16 12	064L		422529	037428									
12-7/16 12-1/2	068	23068K	035183	035185	15-13/16	39	15-1/4	32	34	10	1-7/8	4-3/16	24

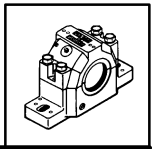
S-1 SHAFT SIZE	HOUSING	BEARING NUMBER	HOUSING PART NO.		K	M	P	Q ★	S ●	W STAT- IC OIL LEVEL	X	Y	DRAIN HOLE SIZE	TOTAL EXP.	
			THRU	CLOSED END											
8-15/16 9	3248	23248K	037464◆	037465◆	6-53/64	10-1/4	23-15/16	4-7/8	0	3-31/64	6-3/4	1-51/64	1/2-14 NPSF	3/8	
9-7/16 9-1/2	3152	23152K	037461◆	037462◆				4-5/8		3-19/64				3/8	
	10-7/16 10-1/2	3252	23252K	037442	037443	7-23/32	12	26-1/2	5-27/64	0	4-5/8	6-5/16	2-33/64	1/2-14 NPSF	3/4
10-15/16 11		3156	23156K	037432	037433				5		4-21/32				3/4
	11-7/16 11-1/2	3256	23256K	037444	037446				4-37/64		0				4-15/64
11-15/16 12		060	23060K	422580	037426				4-5/16		3/16				4-15/32
	12-7/16 12-1/2	3160	23160K	037434	037435				5-21/64		0				4-3/64
064		23064K	422502	037427	4-29/64				3/16		4-5/64				3/8
064L	422529		037428	3/8											
068	23068K	035183	035185	7-15/32	12	26-3/8	4-13/16	3/16	3-1/2	7-1/2	2-7/64	1/2-14 NPSF	3/8		

- ▲ Housing Width With Drain Plugs.
- ★ Distance Shaft Should Extend Beyond Housing Centerline If Pillow Block Is Closed End Style

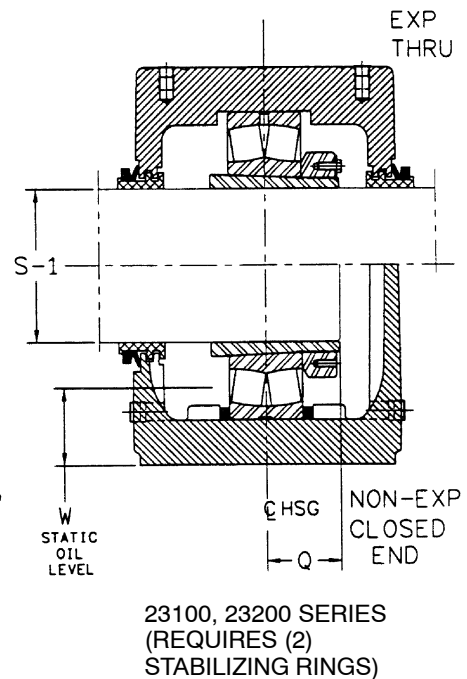
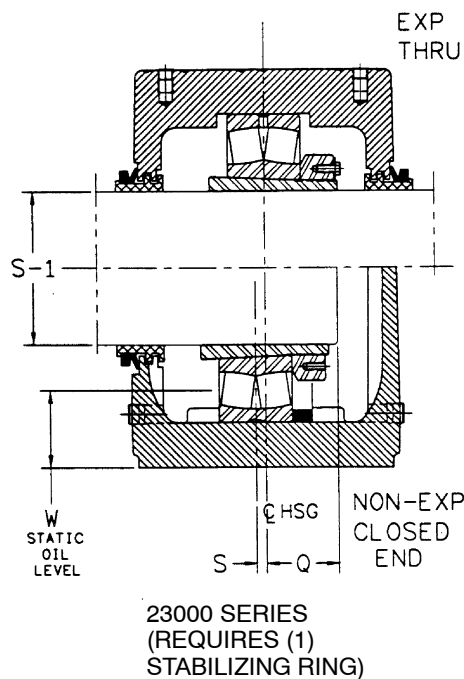
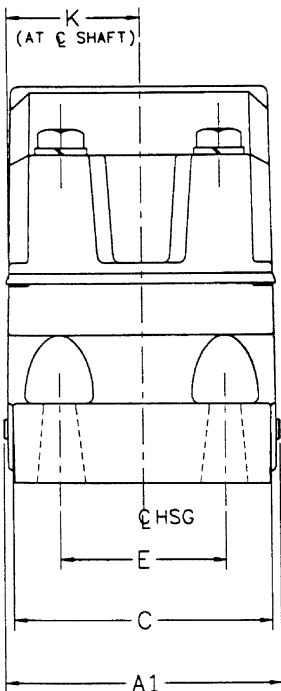
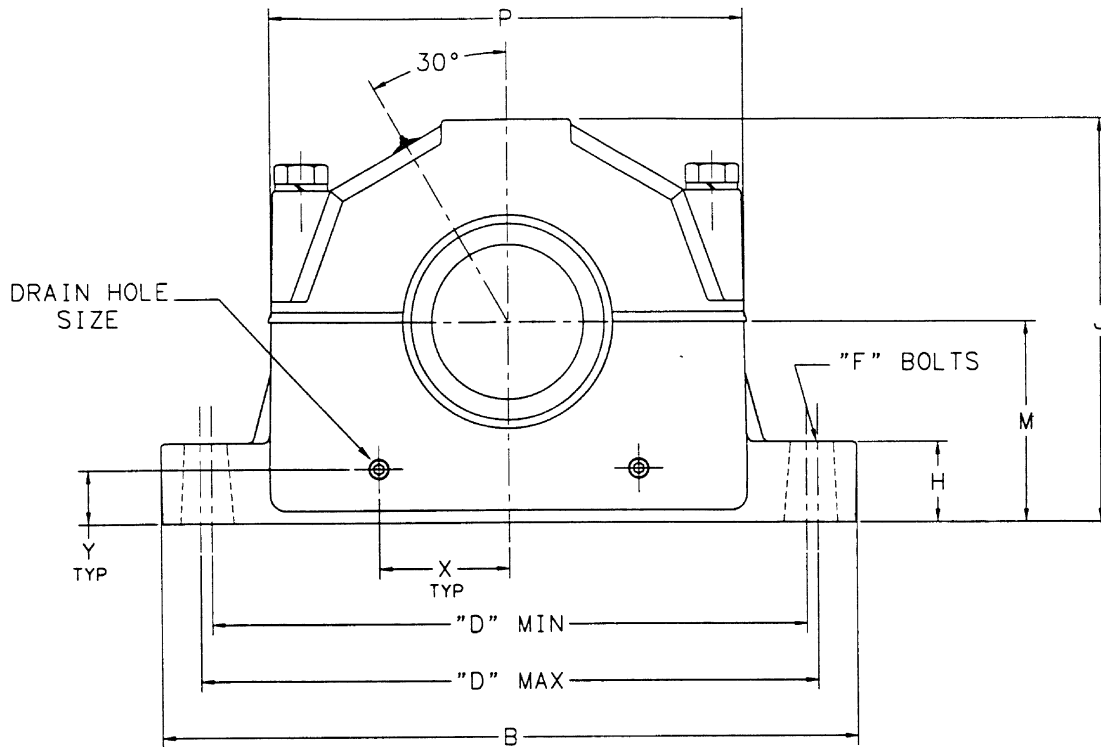
- Non-expansion Bearing Offset From Centerline. For Expansion Bearing S=O
- ◆ Made To Order

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# SELECTION/DIMENSIONS

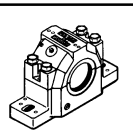


## USDAF Housing Dimensions



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# SELECTION/DIMENSIONS



## USDAF Housing Dimensions

S-1 SHAFT SIZE	HOUSING	BEARING NUMBER	HOUSING PART NO.		A1 ▲	B	C	D		E	F BASE BOLT SIZE 4-REQ'D	H	J
			THRU	CLOSED END				MIN	MAX				
10-15/16 11	3260	23260K	037447	037448	16-63/64	41-3/4	15-3/4	35	36-1/2	10-1/2	1-7/8	4-1/2	25-3/4
11-15/16 12	3164	23164K	037436	037437									
12-15/16 13	072	23072K	044164	037429									
13-7/16 13-1/2	072L		044165	037430									
13-15/16 14	076	23076K	044166	037431	18-5/16	43-37/64	17-3/4	36-3/4	38-1/4	10-3/4	2	5	28
11-15/16 12	3264	23264K	037449	037450									
12-7/16 12-1/2	3168	23168K	035945	035946									
	3268	23268K	037451	037452									
13-7/16 13-1/2	3172	23172K	037438	037439									
13-15/16 14	3176	23176K	037440	037441									
15	080	23080K	035417	035418									
15-3/4	084	23084K	035943	035944									

S-1 SHAFT SIZE	HOUSING	BEARING NUMBER	HOUSING PART NO.		K	M	P	Q ★	S ●	W STATIC OIL LEVEL	X	Y	DRAIN HOLE SIZE	TOTAL EXP.
			THRU	CLOSED END										
10-15/16 11	3260	23260K	037447	037448	8-5/32	12-13/16	29-1/8	5-61/64	0	4-15/32	7-17/32	2-9/64	1/2-14 NPSF	3/4
11-15/16 12	3164	23164K	037436	037437				5-23/32	0	4-19/64				3/4
12-15/16 13	072	23072K	044164	037429				4-13/16	3/16	3-59/64				3/8
13-7/16 13-1/2	072L		044165	037430				3/8						
13-15/16 14	076	23076K	044166	037431	5-61/64	3/16	3-33/64	3/8						
11-15/16 12	3264	23264K	037449	037450	8-45/64	14	31-1/8	6-7/32	0	5-1/16	7-7/8	2-59/64	1/2-14 NPSF	1/2
12-7/16 12-1/2	3168	23168K	035945	035946				6	0	4-7/8				1/2
	3268	23268K	037451	037452	8-3/4	14-1/2	33-11/64	6-21/32	0	4-63/64	8-3/8	2-21/32	1/2-14 NPSF	1/2
13-7/16 13-1/2	3172	23172K	037438	037439				6-9/64	0	4-31/32				3/4
13-15/16 14	3176	23176K	037440	037441				6-5/16	0	4-19/32				3/4
15	080	23080K	035417	035418				5-23/64	3/16	4-19/32				3/8
15-3/4	084	23084K	035943	035944				5-25/64	3/16	4-13/64				3/8

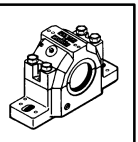
▲ Housing Width With Drain Plugs

★ Distance Shaft Should Extend Beyond Housing Centerline If Pillow Block Is Closed End Style

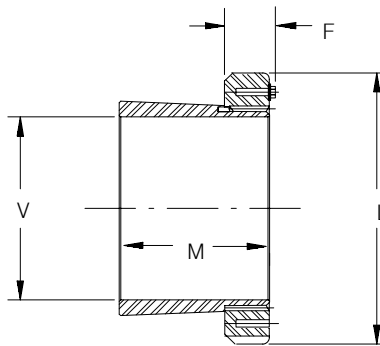
● Non-expansion Bearing Offset From Centerline. For Expansion Bearing S=|

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# SELECTION/DIMENSIONS



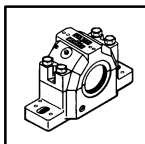
## USDAF SNP Adapter Assembly



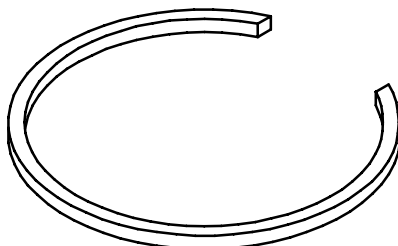
HOUSING	BEARING NUMBER	SNP NUMBER	PART NUMBER	APPROX WEIGHT (lbs)	V SHAFT SIZE (IN.)	L (IN.)	F MAX (IN.)	M (IN.)
060	23060K	SNP3060-1015 SNP3060-1100	<b>043581</b> <b>422576</b>	59.0 56.8	10-15/16 11	14.19	1.94	6.72
064	23064K	SNP3064-1107 SNP3064-1108	<b>043582</b> <b>043583</b>	82.7 80.5	11-7/16 11-1/2	15.01	2.03	6.94
064L		SNP3064-1115 SNP3064-1200	<b>043584</b> <b>422525</b>	65.0 62.5	11-15/16 12			
068	23068K	SNP3068-1207 SNP3068-1208	<b>047632</b> <b>047635</b>	78.0 75.4	12-7/16 12-1/2	15.76	2.16	7.53
072	23072K	SNP3072-1215 SNP3072-1300	<b>043635</b> <b>043636</b>	107.7 105.0	12-15/16 13			
072L		SNP3072-1307 SNP3072-1308	<b>043637</b> <b>043638</b>	86.0 83.2	13-7/16 13-1/2	16.51	2.16	7.57
076	23076K	SNP3076-1315 SNP3076-1400	<b>043639</b> <b>043640</b>	94.3 91.5	13-15/16 14	17.76	2.36	7.73
080	23080K	SNP3080-1500	<b>040830</b>	100.0	15	18.51	2.52	8.40
084	23084K	SNP3084-1512	<b>047636</b>	105.0	15-3/4	19.32	2.52	8.49
3152	23152K	3152-907 3152-908	<b>047630</b> <b>047631</b>	44.0 42.0	9-7/16 9-1/2	12.19	1.77	7.58
3156	23156K	H3156-SNP-1007 H3156-SNP-1008	<b>045431</b> <b>047637</b>	30.06 28.4	10-7/16 10-1/2	13.01	1.85	7.76
3160	23160K	H3160-SNP-1015 H3160-SNP-1100	<b>047638</b> <b>045464</b>	65.0 62.4	10-15/16 11	14.19	1.94	8.37
3164	23164K	H3164-SNP-1115 H3164-SNP-1200	<b>047639</b> <b>050531</b>	74.0 71.0	11-15/16 12	15.01	2.03	9.10
3168	23168K	H3168-SNP-1207 H3168-SNP-1208	<b>047641</b> <b>047642</b>	117.2 113.8	12-7/16 12-1/2	15.76	2.16	9.78
3172	23172K	H3172-SNP-1307 H3172-SNP-1308	<b>047643</b> <b>045434</b>	120.0 116.3	13-7/16 13-1/2	16.51	2.16	9.85
3176	23176K	H3176-SNP-1315 H3176-SNP-1400	<b>047644</b> <b>047645</b>	125.0 121.1	13-15/16 14	17.76	2.36	10.06
3248	23248K	148-815 148-900	<b>047628</b> <b>047629</b>	48.5 46.5	8-15/16 9	11.44	1.70	8.10
3252	23252K	H3252-SNP-907 H3252-SNP-908	<b>047646</b> <b>047647</b>	54.5 52.2	9-7/16 9-1/2	12.19	1.75	8.76
3256	23256K	H3256-SNP-1007 H3256-SNP-1008	<b>047648</b> <b>047649</b>	59.0 56.4	10-7/16 10-1/2	13.01	1.85	8.94
3260	23260K	H3260-SNP-1015 H3260-SNP-1100	<b>047678</b> <b>047679</b>	69.5 65.5	10-15/16 11	14.19	1.94	9.63
3264	23264K	H3264-SNP-1115 H3264-SNP-1200	<b>047680</b> <b>422843</b>	98.0 94.5	11-15/16 12	15.01	2.03	10.36
3268	23268K	H3268-SNP-1207 H3268-SNP-1208	<b>047681</b> <b>047682</b>	132.1 128.2	12-7/16 12-1/2	15.76	2.16	11.12

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# SELECTION/DIMENSIONS



## USAF Stabilizing Rings



HOUSING	STAB. RING NO.	STAB. RING PART NO. ♦
509	9-9	041987
510	10-8	042335
511	11-9	042315
513	13-0	042316
515/215	15-0	041174
516/216	16-13	041172
517/217	17-14	041175
518/218	18-15	041173
520/220	20-17	041176
522/222	22-19	041177
524/224	24-20	041185
526/226	26-0	041178
528/228	28-0	041179
530/230	30-0	041186
532/232	32-0	041180
534/234	34-0	041181
536/236	36-30	041184
538/238	38-32	041182
540/240	40-34	046639
544S/544/244	44-38	041183
* 048	A8897	041161
* 052	A8898	422554
* 056/056L	A8819	041213

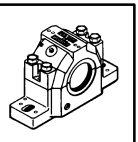
HOUSING	STAB. RING NO.	STAB. RING PART NO. ♦
308	10-8	042335
609/309	11-9	042315
610/310	0-10	046642
611/311	6-11	046632
312	15-0	041174
613/313	16-13	041172
314	17-14	041175
615/315	18-15	041173
616/316	19-16	046643
617/317	20-17	041176
620/320	24-20	041185
622/322	0-22	046635
624/324	0-24	046634
626/326	0-26	046637
628/328	0-28	046638
630/330	36-30	041184
632/332	38-32	041182
634/334	40-34	046639
638/338	44-38	041183

\* Two stabilizing rings required per housing

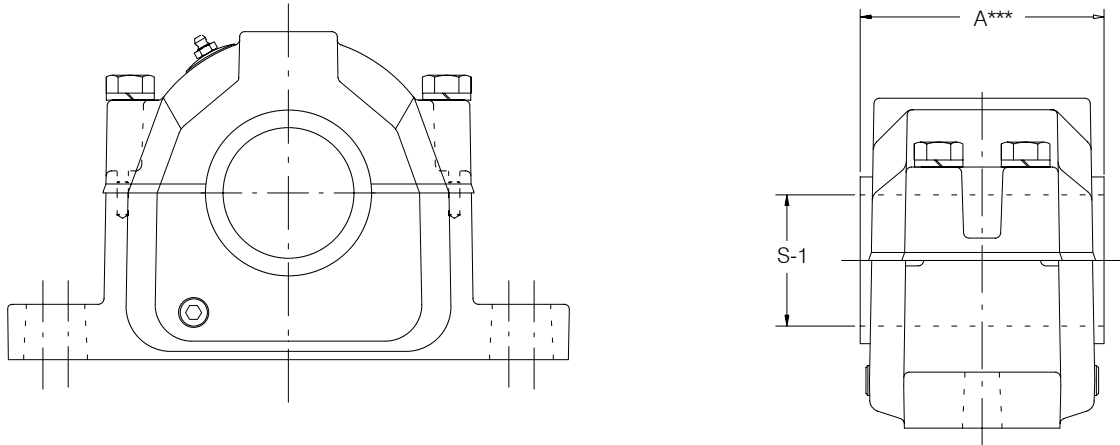
♦ Part numbers for reference only. Housings come equipped with stabilizing rings enclosed.

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# SELECTION/DIMENSIONS



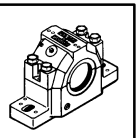
## USAF 500 Air Handling Pillow Blocks With Triple-Tect Seals



Shaft Dia S-1	Complete Pillow Block Part No.	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	Triple Tect Part No.	End Cover
1-7/16	P2B509-USAF-107TTAH 039100	H2S-509-USAF 043995	BRG22209KC3 422980	20,800	5,600	H309-SNW-107 046350	08TT107 043578	EC08 040700
1-11/16	P2B510-USAF-111TTAH 039101	H2S-510-USAF 043996	BRG22210KC3 422981	22,000	5,300	H310-SNW-111 046351	10TT111 043579	EC10 040701
115/16	P2B511-USAF-115TTAH 039102	H2S-511-USAF 043997	BRG22211KC3 422982	27,000	4,500	H311-SNW-115 046352	12TT115 043540	EC12 040702
2-3/16	P2B513-USAF-203TTAH 039103	H2S-513-USAF 043998	BRG22213KC3 422983	38,000	3,800	H313-SNW-203 046353	14TT203 043541	EC14 040703
	P4B513-USAF-203TTAH 039113	H4S-513-USAF 039669	BRG22213KC3 422983	38,000	3,800	H313-SNW-203 046353	14TT203 043541	EC14 040703
2-7/16	P2B515-USAF-207TTAH 039104	H2S-515-USAF 044000	BRG22215KC3 422984	41,500	3,400	H315-SNW-207 046354	20TT207 043542	EC20 040704
	P4B515-USAF-207TTAH 039114	H4S-515-USAF 044003	BRG22215KC3 422984	41,500	3,400	H315-SNW-207 046354	20TT207 043542	EC20 040704
2-1/2	P2B515-USAF-208TTAH 039105	H2S-515-USAF 044000	BRG22215KC3 422984	41,500	3,400	H315-SNW-208 046355	20TT208 043543	EC20 040704
	P4B515-USAF-208TTAH 039115	H4S-515-USAF 044003	BRG22215KC3 422984	41,500	3,400	H315-SNW-208 046355	20TT208 043543	EC20 040704
2-11/16	P2B516-USAF-211TTAH 039106	H2S-516-USAF 044198	BRG22216KC3 422985	46,500	3,200	H316-SNW-211 046356	24TT211 043544	EC24 040705
	P4B516-USAF-211TTAH 039116	H4S-516-USAF 044007	BRG22216KC3 422985	46,500	3,200	H316-SNW-211 046356	24TT211 043544	EC24 040705
2-3/4	P2B516-USAF-212TTAH 039107	H2S-516-USAF 044198	BRG22216KC3 422985	46,500	3,200	H316-SNW-212 046357	24TT212 043545	EC24 040705
	P4B516-USAF-212TTAH 039117	H4S-516-USAF 044007	BRG22216KC3 422985	46,500	3,200	H316-SNW-212 046357	24TT212 043545	EC24 040705
2-15/16	P2B517-USAF-215TTAH 039108	H2S-517-USAF 044010	BRG22217KC3 422986	58,500	3,000	H317-SNW-215 046358	28TT215 043546	EC28 040706
	P4B517-USAF-215TTAH 039118	H4S-517-USAF 044010	BRG22217KC3 422986	58,500	3,000	H317-SNW-215 046358	28TT215 043546	EC28 040706

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# SELECTION/DIMENSIONS



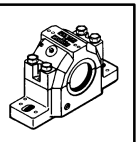
## USAF 500 Air Handling Pillow Blocks With Triple-Tect Seals

Shaft Dia S-1	Complete Pillow Block Part No.	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	Triple Tect Part No.	End Cover
3	P2B517-USAF-300TTAH 039109	H2S-517-USAF 044013	BRG22217KC3 422986	58,500	3,000	H317-SNW-300 046359	28TT300 043547	EC28 040706
	P4B517-USAF-300TTAH 039119	H4S-517-USAF 044013	BRG22217KC3 422986	58,500	3,000	H317-SNW-300 046359	28TT300 043547	EC28 040706
3-3/16	P2B518-USAF-303TTAH 039110	H2S-518-USAF 044199	BRG22218KC3 422987	64,000	2,600	H318-SNW-303 046360	34TT303 043548	EC34 040707
	P4B518-USAF-303TTAH 039120	H4S-518-USAF 044114	BRG22218KC3 422987	64,000	2,600	H318-SNW-303 046360	34TT303 043548	EC34 040707
3-7/16	P2B520-USAF-307TTAH 039111	H2S-520-USAF 044020	BRG22220KC3 422988	80,000	2,200	H320-SNW-307 046361	46TT307 043549	EC46 040708
	P4B520-USAF-307TTAH 039121	H4S-520-USAF 044023	BRG22220KC3 422988	80,000	2,200	H320-SNW-307 046361	46TT307 043549	EC46 040708
3-1/2	P2B520-USAF-308TTAH 039112	H2S-520-USAF 044020	BRG22220KC3 422988	80,000	2,200	H320-SNW-308 046362	46TT308 043550	EC46 040708
	P4B520-USAF-308TTAH 039122	H4S-520-USAF 044023	BRG22220KC3 422988	80,000	2,200	H320-SNW-308 046362	46TT308 043550	EC46 040708
3-15/16	P4B522-USAF-315TTAH 039123	H4S-522-USAF 044025	BRG22222KC3 422989	102,000	2,000	H322-SNW-315 046363	50TT315 043551	EC50 040709
4	P4B522-USAF-400TTAH 039124	H4S-522-USAF 044025	BRG22222KC3 422989	102,000	2,000	H322-SNW-400 046364	50TT400 043552	EC50 040709
4-3/16	P4B524-USAF-403TTAH 039125	H4S-524-USAF 044202	BRG22224KC3 422990	120,000	1,900	H3124-SNW-403 046430	52TT403 043553	EC52 040710
4-7/16	P4B526-USAF-407TTAH 039126	H4S-526-USAF 044031	BRG22226KC3 422991	143,000	1,800	H3126-SNW-407 046431	54TT407 043554	EC54 040711
4-1/2	P4B526-USAF-408TTAH 039127	H4S-526-USAF 044031	BRG22226KC3 422991	143,000	1,800	H3126-SNW-408 046432	54TT408 043555	EC54 040711
4-15/16	P4B528-USAF-415TTAH 039128	H4S-528-USAF 044034	BRG22228KC3 422992	166,000	1,700	H3128-SNW-415 046433	56TT415 043556	EC56 040712
5	P4B528-USAF-500TTAH 039129	H4S-528-USAF 044034	BRG22228KC3 422992	166,000	1,700	H3128-SNW-500 046434	56TT500 043557	EC56 040712

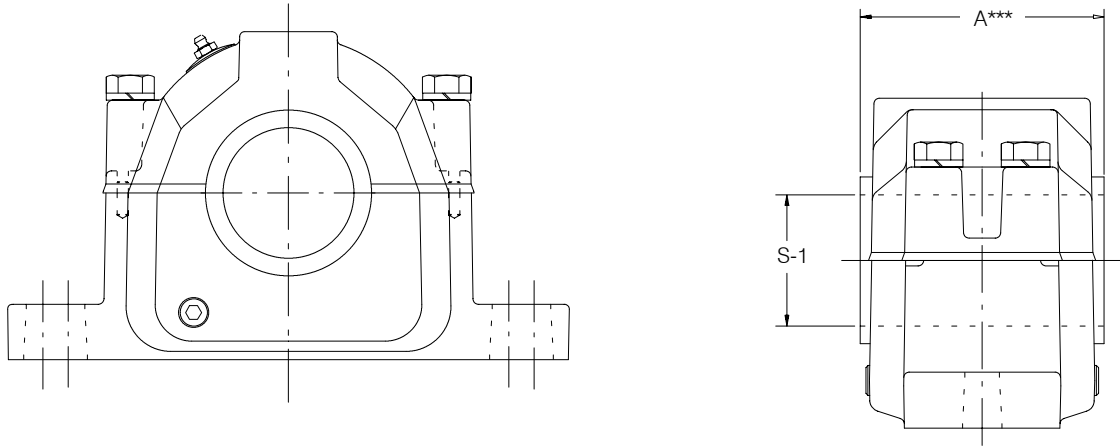
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# SELECTION/DIMENSIONS



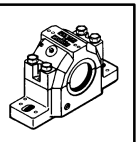
## USAF 500 Air Handling Pillow Blocks With LER Seals



Shaft Dia S-1	Complete Pillow Block Part No.	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	LER Part No.	End Cover
1-7/16	P2B509-USAF-107LERAH 035762	H2S-509-USAF 043995	BRG22209KC3 422980	20,800	5,600	H309-SNW-107 046350	08LER107 042193	EC08 040700
1-11/16	P2B510-USAF-111LERAH 035763	H2S-510-USAF 043996	BRG22210KC3 422981	22,000	5,300	H310-SNW-111 046351	10LER111 042199	EC10 040701
1-15/16	P2B511-USAF-115LERAH 035764	H2S-511-USAF 043997	BRG22211KC3 422982	27,000	4,500	H311-SNW-115 046352	12LER115 042512	EC12 040702
2-3/16	P2B513-USAF-203LERAH 035765	H2S-513-USAF 043998	BRG22213KC3 422983	38,000	3,800	H313-SNW-203 046353	14LER203 042513	EC14 040703
	P4B513-USAF-203LERAH 035755	H4S-513-USAF 039669	BRG22213KC3 422983	38,000	3,800	H313-SNW-203 046353	14LER203 042513	EC14 040703
2-7/16	P2B515-USAF-207LERAH 035766	H2S-515-USAF 044000	BRG22215KC3 422984	41,500	3,400	H315-SNW-207 046354	20LER207 042514	EC20 040704
	P4B515-USAF-207LERAH 035776	H4S-515-USAF 044003	BRG22215KC3 422984	41,500	3,400	H315-SNW-207 046354	20LER207 042514	EC20 040704
2-1/2	P2B515-USAF-208LERAH 035767	H2S-515-USAF 044000	BRG22215KC3 422984	41,500	3,400	H315-SNW-208 046355	20LER208 042515	EC20 040704
	P4B515-USAF-208LERAH 035777	H4S-515-USAF 044003	BRG22215KC3 422984	41,500	3,400	H315-SNW-208 046355	20LER208 042515	EC20 040704
2-11/16	P2B516-USAF-211LERAH 035768	H2S-516-USAF 044198	BRG22216KC3 422985	46,500	3,200	H316-SNW-211 046356	24LER211 042516	EC24 040705
	P4B516-USAF-211LERAH 035778	H4S-516-USAF 044007	BRG22216KC3 422985	46,500	3,200	H316-SNW-211 046356	24LER211 042516	EC24 040705
2-3/4	P2B516-USAF-212LERAH 035769	H2S-516-USAF 044198	BRG22216KC3 422985	46,500	3,200	H316-SNW-212 046357	24LER212 042517	EC24 040705
	P4B516-USAF-212LERAH 035779	H4S-516-USAF 044007	BRG22216KC3 422985	46,500	3,200	H316-SNW-212 046357	24LER212 042517	EC24 040705
2-15/16	P2B517-USAF-215LERAH 035770	H2S-517-USAF 044010	BRG22217KC3 422986	58,500	3,000	H317-SNW-215 046358	28LER215 042518	EC28 040706
	P4B517-USAF-215LERAH 035780	H4S-517-USAF 044010	BRG22217KC3 422986	58,500	3,000	H317-SNW-215 046358	28LER215 042518	EC28 040706

500 SERIES PAGE B9-38	600 SERIES PAGE B9-82	200 SERIES PAGE B9-86	300 SERIES PAGE B9-86
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# SELECTION/DIMENSIONS

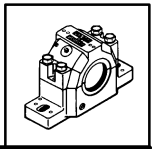


## USAF 500 Air Handling Pillow Blocks With LER Seals

Shaft Dia S-1	Complete Pillow Block Part No.	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	LER Part No.	End Cover
3	P2B517-USAF-300LERAH 035771	H2S-517-USAF 044013	BRG22217KC3 422986	58,500	3,000	H317-SNW-300 046359	28LER300 042519	EC28 040706
	P4B517-USAF-300LERAH 035781	H4S-517-USAF 044013	BRG22217KC3 422986	58,500	3,000	H317-SNW-300 046359	28LER300 042519	EC28 040706
3-3/16	P2B518-USAF-303LERAH 035772	H2S-518-USAF 044199	BRG22218KC3 422987	64,000	2,600	H318-SNW-303 046360	34LER303 042520	EC34 040707
	P4B518-USAF-303LERAH 035782	H4S-518-USAF 044114	BRG22218KC3 422987	64,000	2,600	H318-SNW-303 046360	34LER303 042520	EC34 040707
3-7/16	P2B520-USAF-307LERAH 035773	H2S-520-USAF 044020	BRG22220KC3 422988	80,000	2,200	H320-SNW-307 046361	46LER307 042521	EC46 040708
	P4B520-USAF-307LERAH 035783	H4S-520-USAF 044023	BRG22220KC3 422988	80,000	2,200	H320-SNW-307 046361	46LER307 042521	EC46 040708
3-1/2	P2B520-USAF-308LERAH 035774	H2S-520-USAF 044020	BRG22220KC3 422988	80,000	2,200	H320-SNW-308 046362	46LER308 042522	EC46 040708
	P4B520-USAF-308LERAH 035784	H4S-520-USAF 044023	BRG22220KC3 422988	80,000	2,200	H320-SNW-308 046362	46LER308 042522	EC46 040708
3-15/16	P4B522-USAF-315LERAH 035785	H4S-522-USAF 044025	BRG22222KC3 422989	102,000	2,000	H322-SNW-315 046363	50LER315 042523	EC50 040709
4	P4B522-USAF-400LERAH 035786	H4S-522-USAF 044025	BRG22222KC3 422989	102,000	2,000	H322-SNW-400 046364	50LER400 042524	EC50 040709
4-3/16	P4B524-USAF-403LERAH 035787	H4S-524-USAF 044202	BRG22224KC3 422990	120,000	1,900	H3124-SNW-403 046430	52LER403 042525	EC52 040710
4-7/16	P4B526-USAF-407LERAH 035788	H4S-526-USAF 044031	BRG22226KC3 422991	143,000	1,800	H3126-SNW-407 046431	54LER407 042526	EC54 040711
4-1/2	P4B526-USAF-408LERAH 035789	H4S-526-USAF 044031	BRG22226KC3 422991	143,000	1,800	H3126-SNW-408 046432	54LER408 042527	EC54 040711
4-15/16	P4B528-USAF-415LERAH 035790	H4S-528-USAF 044034	BRG22228KC3 422992	166,000	1,700	H3128-SNW-415 046433	56LER415 042528	EC56 040712
5	P4B528-USAF-500LERAH 35791	H4S-528-USAF 044034	BRG22228KC3 422992	166,000	1,700	H3128-SNW-500 046434	56LER500 042529	EC56 040712

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# SELECTION/DIMENSIONS



## DODGE USAF Air Handling Bearing Assemblies Using 12XX Series Self Aligning Ball Bearing

Shaft Size	Housing Series	Housing Part No.		Bearing		Adapter Part No.	Seal Part No. LER (2-req)	Stab Ring For Fixed Units		
		2-Bolt	4-Bolt	Part No.	Description			Description	Qty Req	Part No.
1-7/16	509	043995	---	052637	1209K.C3	046350	042193	SR-9-0	1	058902
1-11/16	510	043996	---	052638	1210K.C3	046351	042199	SR-10-8	1	058903
1-15/16	511	043997	---	052639	1211K.C3	046352	042512	SR-11-9	1	058699
2-3/16	513	043998	039669	052640	1213K.C3	046353	042513	SR-13	2	042316
2-7/16	515	044000	044003	052641	1215K.C3	046354	042514	SR-15-0	2	058904
2-11/16	516	044198	044007	052642	1216K.C3	046356	042516	SR-1516	2	058905
2-15/16	517	044010	044013	052643	1217K.C3	043658	042518	SR-1517	2	058906
3-3/16	518	044199	044114	052570	1218K.C3	046360	042520	SR-1518	2	058907
3-7/16	520	044020	044023	052644	1220K.C3	046361	042521	SR-1520	2	058908
3-15/16	522	---	044025	041399	1222K.C3	046363	042523	SR-1522	2	058909
4-3/16	524	---	044202	052555	1224K.C3	046430	042525	SR-1524	2	---

Standard AH housings come with stabilizing ring for fixing spherical roller bearings .

With the use of the 12xx series ball bearings, if a fixed bearing is required, special stabilizing rings are needed.

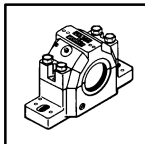
Remove standard stab ring, which comes with housing, and replace with the above ball bearing stab rings.

The 4-3/16" unit is not available as fixed unit due to non-standard stab ring width. (2) special width .503-.057" would be needed.

In cases where two stab rings are needed, one should be placed on each side of the bearing.

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# SELECTION/DIMENSIONS



## DODGE USAF Air Handling Bearing Assemblies Using 12XX Series Self Aligning Ball Bearing

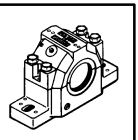
### STABILIZING RING DIMENSIONS

Shaft Size	Housing Series	Stab Ring For Fixed Units		
		Description	Qty Req	Part No.
1-7/16	509	SR-9-0	1	058902
1-11/16	510	SR-10-8	1	058903
1-15/16	511	SR-11-9	1	058699
2-3/16	513	SR-13	2	042316
2-7/16	515	SR-15-0	2	058904
2-11/16	516	SR-1516	2	058905
2-15/16	517	SR-1517	2	058906
3-3/16	518	SR-1518	2	058907
3-7/16	520	SR-1520	2	058908
3-15/16	522	SR-1522	2	058909
4-3/16	524	SR-1524	2	---

Stab Ring	
O.D.	Width
3.310	.382-.386
3.510	.382-.386
3.900	.382-.386
4.680	.311-.315
5.080	.236-.232
5.470	.326-.330
5.870	.346-.350
6.260	.386-.390
7.040	.425-.429
7.830	.484-.488
8.420	.503-.507

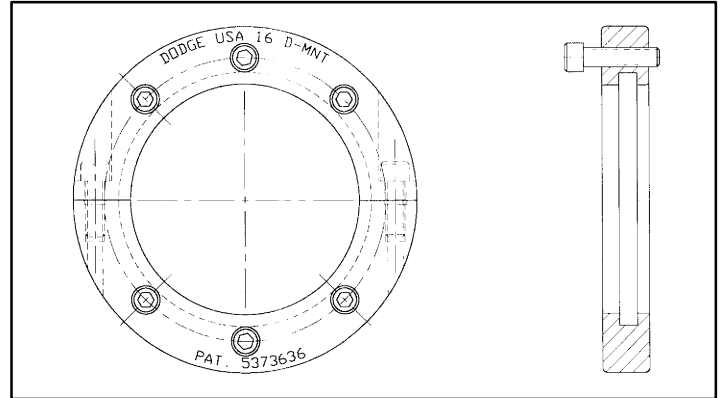
SPECIFICATIONS (INCH) PAGE B9-7	HOW TO ORDER PAGE B9-8	NOMENCLATURE PAGE B9-9	SELECTION/DIMENSIONS PAGE B9-15
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# SELECTION/DIMENSIONS

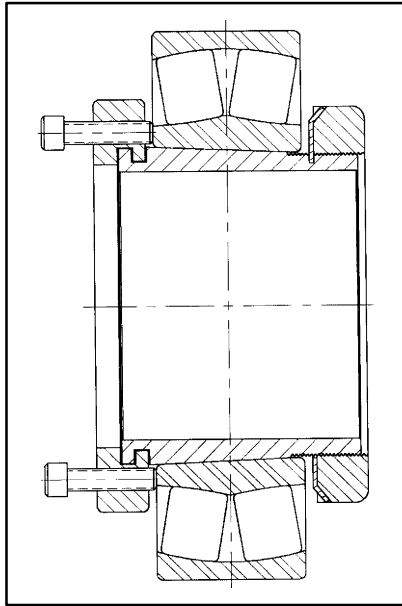


## SAF/SN D-Mount Adapter System

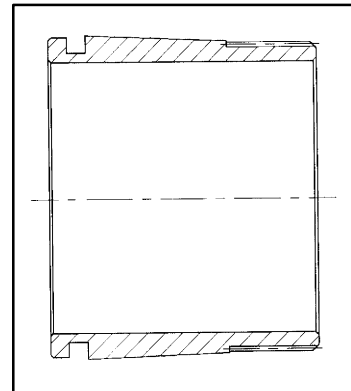
- Saves time removing bearings from shaft!
- Reduces the use of blue flame torches!
- Increases uptime!
- Lowers maintenance costs!



**D-MOUNT TOOL**



**D-MOUNT TOOL - SNW - BEARING  
WITH TOOL ASSEMBLED  
READY TO REMOVE BEARING**



**D-MOUNT ADAPTER SLEEVE**

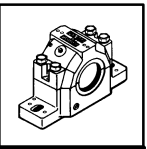
Patented tool and adapter sleeve design. For use on 22209K through 22244K size bearings

### HOW IT WORKS:

Split D-Mount Tool is mounted on D-Mount Adapter and uses socket head cap screws to force the inner ring off the taper to unlock the bearing from the adapter sleeve. No additional space allowance is required.

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# SELECTION/DIMENSIONS



## D-MOUNT Adapter System SAF/SN Mounted Bearings Part Numbers and Description

Part No.	Description-Inch
<b>D-Mount Adapter with Removal Feature-USA500</b>	
046960	DH09-SNW-107
046961	DH10-SNW-111
046962	DH11-SNW-115
046963	DH13-SNW-203
046964	DH15-SNW-207
046965	DH15-SNW-208
046966	DH16-SNW-211
046967	DH16-SNW-212
046968	DH17-SNW-215
046969	DH17-SNW-300
046970	DH18-SNW-303
046971	DH20-SNW-307
046972	DH20-SNW-308
046973	DH22-SNW-315
046974	DH22-SNW-400
046975	DH24-SNW-403
046976	DH26-SNW-407
046977	DH26-SNW-408
046978	DH28-SNW-415
046979	DH28-SNW-500
046980	DH30-SNW-503
046981	DH32-SNW-507
046982	DH32-SNW-508
046983	DH34-SNW-515
046984	DH34-SNW-600
046985	DH36-SNW-607
046986	DH36-SNW-608
046987	DH38-SNW-615
046988	DH38-SNW-700
046989	DH40-SNW-703
046991	DH44-SNW-708
046992	DH44-SNW-715
046993	DH44-SNW-800

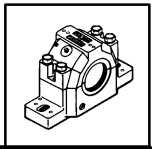
Part No.	Description-Metric
<b>D-Mount Adapter with Removal Feature-USN500</b>	
047815 *	DH09-SNW-40M
047816 *	DH10-SNW-45M
047817 *	DH11-SNW-50M
047818 *	DH12-SNW-55M
047819 *	DH13-SNW-60M
047820 *	DH15-SNW-65M
047821 *	DH16-SNW-70M
047822 *	DH17-SNW-75M
047823 *	DH18-SNW-80M
047824 *	DH19-SNW-85M
047825 *	DH20-SNW-90M
047826 *	DH22-SNW-100M
047827 *	DH24-SNW-110M
047828 *	DH26-SNW-115M
047829 *	DH28-SNW-125M
047830 *	DH30-SNW-135M
047831 *	DH32-SNW-140M

Part No.	Description
<b>D-Mount Adapter Removal Tools</b>	
046872	D-MOUNT TOOL 09
046873	D-MOUNT TOOL 10
046874	D-MOUNT TOOL 11
046850	D-MOUNT TOOL 12
046875	D-MOUNT TOOL 13
046876	D-MOUNT TOOL 15
046877	D-MOUNT TOOL 16
046878	D-MOUNT TOOL 17
046879	D-MOUNT TOOL 18
046851	D-MOUNT TOOL 19
046880	D-MOUNT TOOL 20
046881	D-MOUNT TOOL 22
046882	D-MOUNT TOOL 24
046883	D-MOUNT TOOL 26
046884	D-MOUNT TOOL 28
046885	D-MOUNT TOOL 30
046886	D-MOUNT TOOL 32
046887	D-MOUNT TOOL 34
046891	D-MOUNT TOOL 36
046892	D-MOUNT TOOL 38
046893	D-MOUNT TOOL 40
046894	D-MOUNT TOOL 44

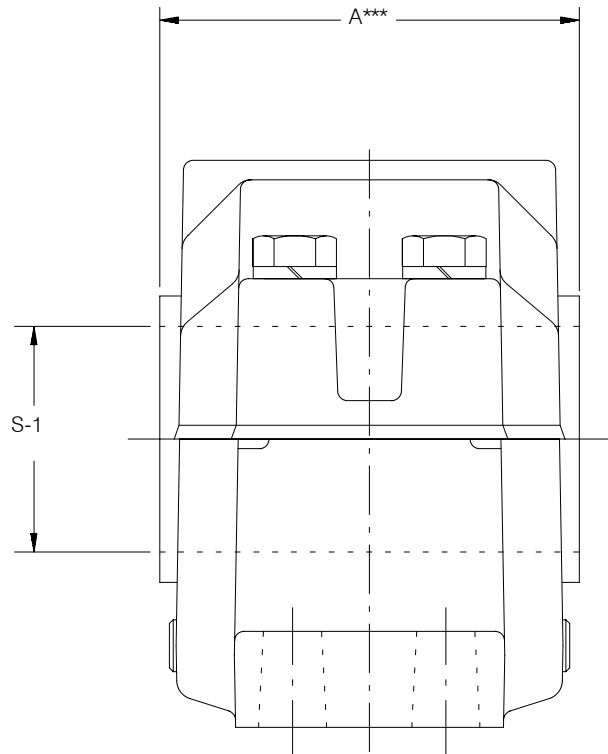
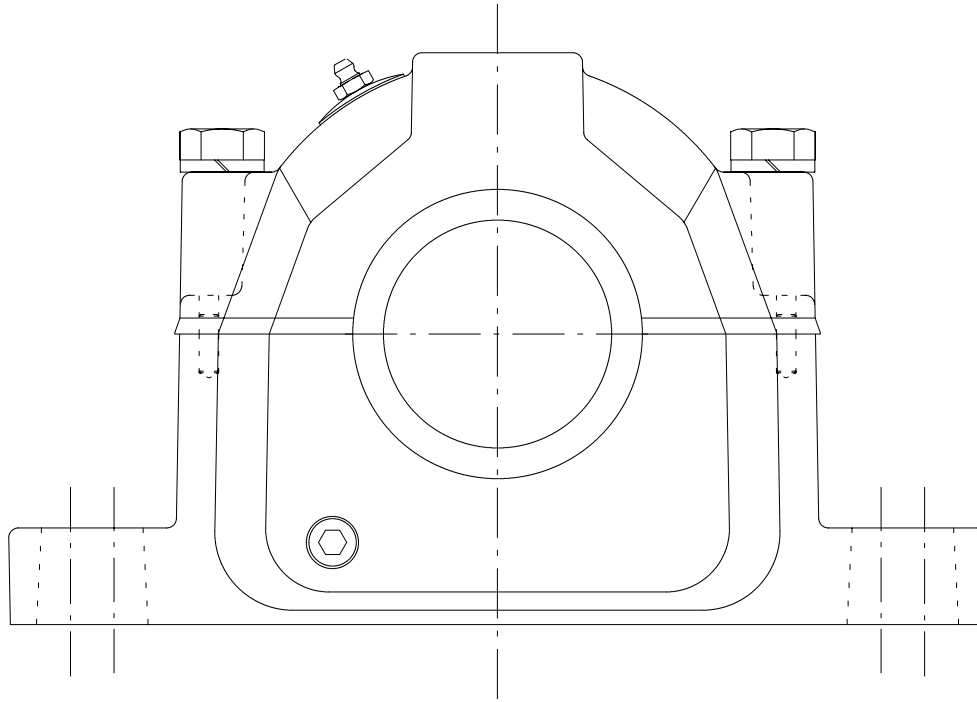
\* Made to order.

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# SELECTION/DIMENSIONS

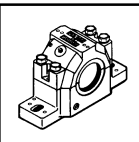


## USAF 500 SPLIT-SPHER Pillow Block



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# SELECTION/DIMENSIONS



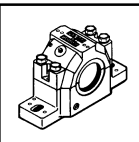
## USAF 500 SPLIT-SPHER Pillow Block

Shaft Dia S-1	Complete Pillow Block Part No.	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	Triple Tect Part No.
2-3/16	P2B13-SS-203TT 043958	H2S-513-USAF 043998	BRG13SS203 043393	38,000	3,800	14SS203 043501
	P4B13-SS-203TT 046110	H4S-513-USAF 039669	BRG13SS203 043393	38,000	3,800	14SS203 043501
2-7/16	P2B15-SS-207TT 046959	H2S-515-USAF 044000	BRG15SS207 043400	41,500	3,400	20SS207 043502
	P4B15-SS-207TT 043964	H4S-515-USAF 044003	BRG15SS207 043400	41,500	3,400	20SS207 043502
2-15/16	P2B17-SS-215TT 043961	H2S-517-USAF 044010	BRG17SS215 043402	58,500	3,000	28SS215 043506
	P4B17-SS-215TT 043966	H4S-517-USAF 044010	BRG17SS215 043402	58,500	3,000	28SS215 043506
3-3/16	P2B18-SS-303TT 043962	H2S-518-USAF 044199	BRG18SS303 043403	64,000	2,600	34SS303 043508
	P4B18-SS-303TT 043967	H4S-518-USAF 044114	BRG18SS303 043403	64,000	2,600	34SS303 043508
3-7/16	P2B20-SS-307TT 043963	H2S-520-USAF 044020	BRG20SS307 043404	80,000	2,200	46SS307 043509
	P4B20-SS-307TT 043968	H4S-520-USAF 044023	BRG20SS307 043404	80,000	2,200	46SS307 043509
3-15/16	P4B22-SS-315TT 043969	H4S-522-USAF 044025	BRG22SS315 043405	102,000	2,000	50SS315 043511
4	P4B22-SS-400TT 043970	H4S-522-USAF 044025	BRG22SS400 043406	102,000	2,000	50SS400 043512
4-7/16	P4B26-SS-407TT 043972	H4S-526-USAF 044031	BRG26SS407 043407	143,000	1,800	54SS407 043514
4-15/16	P4B28-SS-415TT 043974	H4S-528-USAF 044034	BRG28SS415 043408	166,000	1,700	56SS415 043516
5-7/16	P4B32-SS-507TT 043976	H4S-532-USAF 044040	BRG32SS507 043410	216,000	1,500	60SS507 043519
5-15/16	P4B34-SS-515TT 043977	H4S-534-USAF 044043	BRG34SS515 043411	250,000	1,300	64SS515 043520
6	P4B34-SS-600TT 043978	H4S-534-USAF 044043	BRG34SS600 043412	250,000	1,300	64SS600 043521

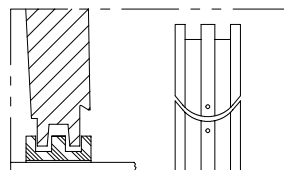
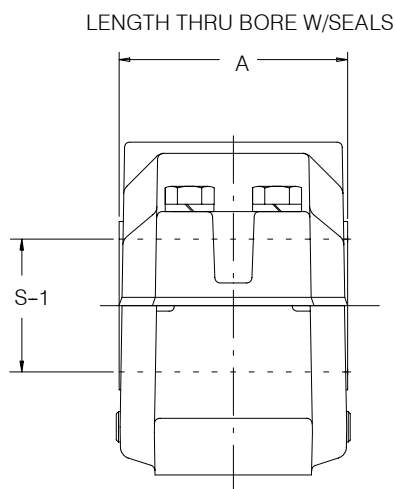
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# SELECTION/DIMENSIONS



## USAF 500 SPLIT-SPHER Pillow Block Seals

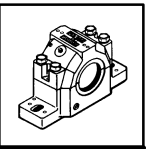


**SPLIT Seal**  
 Permits easy installation in hard-to-reach applications without removing shaft.  
 Non-metallic split LER

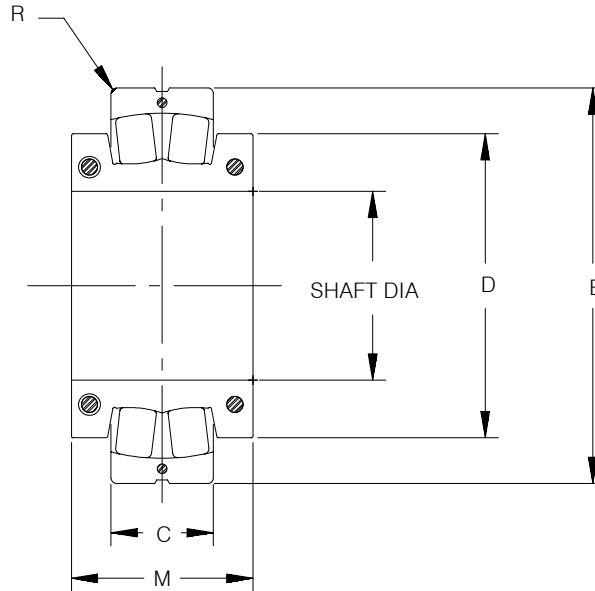
S-1 SHAFT SIZE INCH	HOUSING	SEAL GROUP	SEAL PART NUMBER	A
2-3/16	513	14	043501	4-23/32
2-7/16	515	20	043502	4-15/32
2-15/16	517	28	043506	4-53/64
3-3/16	518	34	043508	5-45/64
3-7/16	520	46	043509	6-3/16
3-15/16 4	522	50	043511 043512	6-19/32
4-7/16	526	54	043514	7-1/2
4-15/16	528	56	043516	7-7/8
5-7/16	532	60	043519	9-13/64
5-15/16 6	534	64	043520 043521	9-1/8

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# SELECTION/DIMENSIONS

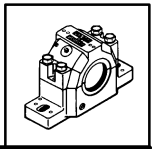


## USAF 22200 SPLIT-SPHER Roller Bearings



SHAFT DIA. INCH	HOUSING	BEARING DESCRIPTIVE NO.	BEARING PART NO.	APPROX. WEIGHT (LBS)	B INCH (mm)	C INCH (mm)	M INCH (mm)	D INCH	R INCH
2-3/16	513	22213SS203	<b>043393</b>	5.07	4.7244 (120)	1.2205 (31)	2.1654 (55)	3.3464	.06
2-7/16	515	22215SS207	<b>043400</b>	5.73	5.1181 (130)	1.2205 (31)	2.3622 (60)	3.4646	.06
2-15/16	517	22217SS215	<b>043402</b>	9.04	5.9055 (150)	1.4173 (36)	2.6772 (68)	4.0157	.08
3-3/16	518	22218SS303	<b>043403</b>	10.1	6.2992 (160)	1.5748 (40)	2.7559 (70)	4.4094	.08
3-7/16	520	22220SS307	<b>043404</b>	14.2	7.0866 (180)	1.8110 (46)	2.9921 (76)	4.6457	.08
3-15/16 4	522	22222SS315 22222SS400	<b>043405</b> <b>043406</b>	22.0 22.0	7.8740 (200)	2.0866 (53)	3.6220 (92)	5.4331	.08
4-7/16	526	22226SS407	<b>043407</b>	32.2	9.0551 (230)	2.5197 (64)	4.0945 (104)	5.9842	.12
4-15/16	528	22228SS415	<b>043408</b>	43.2	9.8425 (250)	2.6772 (68)	4.3307 (110)	6.6929	.12
5-7/16	532	22232SS507	<b>043410</b>	69.4	11.4173 (290)	3.1496 (80)	4.8819 (124)	7.4016	.12
5-15/16 6	534	22234SS515 22234SS600	<b>043411</b> <b>043412</b>	82.2 82.2	12.2047 (310)	3.3858 (86)	5.0394 (128)	7.9527	.12

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## SAF-XT and SAFS Spherical Roller Bearings

DODGE SAF-XT, and SAFS Spherical Roller Bearings have the capacity to carry heavy radial loads, thrust 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 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.

Select a bearing from the SAF-XT, and SAFS Spherical Roller Bearing Selection Chart having a radial load rating at the operating speed equal to or greater than the calculated Equivalent Radial Load for a desired  $L_{10}$  life. This simple method is all that is required for the majority of general applications and provides for occasional average shock loads.

**$L_{10}$  Hours Life** — The life which may be expected from at least 90% of a given group of bearings operating under identical conditions.

For  $L_{10}$  hours life other than those listed in the selection chart, multiply the Equivalent Radial Load by one of the following factors. For 20,000  $L_{10}$  hours life use factor of .88; 40,000, 1.09; 60,000, 1.23; 80,000, 1.34. Then select a bearing from the bold face (30,000)  $L_{10}$  ratings only in the selection chart having a rating equal to or greater than this value.

**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  $L_{10}$  life. Where substantial radial load is also

present, it is advisable to calculate actual  $L_{10}$  life to assure that it meets the requirements. The maximum thrust load should not exceed SAF-XT adapter maximum allowable thrust load (Table 15, page B9-73) nor the pillow block limits shown on page B9-74. The effectiveness of the shaft attachment to carry thrust load depends on proper tightening of the adapter and shaft deflections.

RPM RANGE	20-200	201-2000	over 2000
RECOMMENDED THRUST LOAD	C/20*	C/40*	C/60*

\* Compare thrust load to adapter maximum allowed thrust load. If this value is exceeded, auxiliary method of carrying thrust load is required.

The shaft tolerances recommended (page B7-42) 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, consult DODGE Applications Engineering for recommendations.** 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.

To determine the  $L_{10}$  hours life for loads and RPM's not listed, use the following equation:

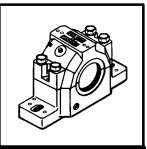
$$L_{10} \text{ Life, Hours} = \left(\frac{C}{P}\right)^{10/3} \times \left(\frac{16667}{\text{RPM}}\right)$$

Where:

- C = Dynamic Capacity (Table 14, page B9-37), lbs.
- P = Equivalent Radial Load, lbs.

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# SELECTION/DIMENSIONS



## SAF-XT/SAFS Bearings

When the load on a two row roller bearing is solely a radial load with no thrust (axial) load, the load is shared equally by both rows of rollers and the equivalent radial load (P) is equal to the actual radial load. However, when a thrust load is applied, 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 14 converts the actual applied loads to an equivalent radial load having the same effect on the life of the bearing as a radial load of this magnitude.

### Equation 1

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. (\*\*See Note below)
- e = Thrust load to radial load factor (Table 14)
- X = Radial load factor (Table 14)
- Y = Thrust load factor (Table 14)

To find X and Y, first calculate  $F_A/F_R$  and compare to e. Determine X and Y from Table 10: Light thrust  $F_A/F_R$  less than or equal to e or heavy thrust  $F_A/F_R$  greater than e.

Substitute all known values into the equivalent radial load equation. P (equivalent radial load) thus determined 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 expanded rating table on pages B9-74 and B9-75.

**\*\*NOTE: Spherical bearings require a radial load at least equal to the thrust load for proper operation  $F_A/F_R = 1$ . If the thrust load exceeds this limit, consult DODGE Application Engineering.**

**$L_{10}$  Life Adjustment** — The calculated  $L_{10}$  life obtained from the above procedure is subject to life adjustment factors in accordance with ABMA standards. Consult DODGE Application Engineering for assistance.

**TABLE 15 – RADIAL AND THRUST FACTORS**

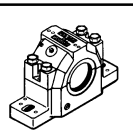
SHAFT SIZE INCH	BASIC BEARING DESCRIPTION	e	$F_A/F_R \leq e$		$F_A/F_R > e$		*ADAPTER. MAX. ALLOW. THRUST LOAD $F_A$ (LBS.)	DYNAMIC CAPACITY (C)		MAX. RPM	
			X	Y	X	Y		POUNDS	NEWTONS	GREASE	OIL ▲
1-5/16	22211K	.23	1.0	2.9	.67	4.3	927	27,000	120,000	4500	5600
2-3/16	22213K	.24	1.0	2.8	.67	4.2	1359	38,000	169,000	3800	4500
2-7/16, 2-1/2	22215K	.22	1.0	3.1	.67	4.6	1568	41,500	189,000	3400	4300
2-11/16, 2-3/4	22216K	.22	1.0	3.1	.67	4.6	1780	46,500	214,000	3200	4000
2-15/16, 3	22217K	.22	1.0	3.0	.67	4.5	2063	58,500	249,000	3000	3800
3-3/16	22218K	.23	1.0	2.9	.67	4.3	2429	64,000	291,000	2600	3400
3-7/16, 3-1/2	22220K	.24	1.0	2.8	.67	4.2	3102	80,000	369,000	2200	3000
3-15/16, 4	22222K	.25	1.0	2.7	.67	4.1	3931	102,000	472,000	2000	2800
4-3/16	22224K	.25	1.0	2.7	.67	4.0	4693	120,000	556,000	1900	2400
4-7/16, 4-1/2	22226K	.26	1.0	2.6	.67	3.9	5610	143,000	649,000	1800	2200
4-15/16, 5	22228K	.25	1.0	2.7	.67	4.0	6419	166,000	756,000	1700	2000
5-3/16	22230K	.25	1.0	2.7	.67	4.0	7383	190,000	858,000	1600	1900
5-7/16, 5-1/2	22232K	.26	1.0	2.6	.67	3.9	8630	216,000	996,000	1500	1800
5-15/16, 6	22234K	.26	1.0	2.6	.67	3.9	9858	250,000	1,134,000	1300	1700
6-7/16, 6-1/2	22236K	.25	1.0	2.7	.67	4.0	10437	255,000	1,179,000	1300	1600
6-15/16, 7	22238K	.28	1.0	2.4	.67	3.6	11786	270,000	1,157,000	1200	1300
7-1/2, 7-15/16, 8	22244K	.29	1.0	2.3	.67	3.5	16020	365,000	1,159,000	950	1000
8-7/16, 8-1/2, 8-15/16, 9	23048K	.25	1.0	2.7	.67	4.1	14887	260,000	1,134,000	800	1000
9-7/16, 9-1/2	23052K	.26	1.0	2.6	.67	3.9	18232	340,000	1,446,000	750	950
9-15/16, 10, 10-7/16, 10-1/2	23056K	.25	1.0	2.7	.67	4.1	20012	345,000	1,579,000	700	900

**Comparing Spherical to 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 bearing and then compare.

▲ For shaft sizes 1-7/16 through 4-3/16 inclusive TRIPLE-TECT seals will perform like LER seals when operating above the grease speed limit.

\* If thrust load exceeds adapter maximum allowable thrust load, auxiliary method of carrying thrust load required.

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# SELECTION/DIMENSIONS

## SAF-XT and SAFS Spherical Roller Bearings

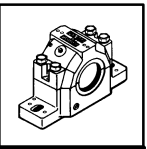
TABLE 16 – SELECTION TABLE

SHAFT SIZE		BEARING SERIES	L <sub>10</sub> HRS.	ALLOWABLE EQUIVALENT RADIAL LOAD RATING (LBS.) AT VARIOUS REVOLUTIONS PER MINUTE																
ADAPTER MOUNT INCHES	DIRECT MOUNT mm			50	100	250	500	750	950	1300	1500	1800	2000	2600	3000	3200	3400	4500	5600	
1-15/16	—	22211	10000	9730	7905	6005	4875	4320	4025	3660	3510	3320	3220	2975	2850	2795	2745	2525	2365	
			30000	7000	5685	4320	3510	3105	2895	2635	2525	2390	2315	2140	2050	2140	1975	1815	1700	
			60000	5685	4620	3510	2850	2525	2350	2140	2050	1940	1880	1735	1665	1735	1605	1475	1380	
2-3/16	65	22213	10000	13695	11125	8450	6865	6080	5660	5155	4935	4675	4530	4185	4010	3935	3860	3550		
			30000	9850	8000	6080	4935	4370	4070	3705	3550	3360	3255	3010	2885	2830	2780	2555		
			60000	8000	6500	4935	4010	3550	3310	3010	2885	2730	2645	2445	2340	2300	2255	2075		
2-7/16 2-1/2	75	22215	10000	14960	12150	9230	7495	6640	6185	5630	5390	5105	4945	4570	4380	4295	4220			
			30000	10760	8740	6640	5390	4775	4445	4050	3880	3670	3555	3290	3150	3090	3035			
			60000	8740	7100	5390	4380	3880	3610	3290	3150	2980	2890	2670	2560	2510	2465			
2-11/16 2-3/4	80	22216	10000	16760	13615	10340	8400	7440	6930	6305	6040	5720	5540	5120	4905	4815	4725			
			30000	12055	9790	7440	6040	5350	4985	4535	4355	4115	3985	3685	3530	3460	3400			
			60000	9790	7955	6040	4905	4356	4050	3685	3530	3340	3235	2990	2865	2810	2760			
2-15/16 3	85	22217	10000	21085	17130	13010	10570	9360	8715	7935	7600	7195	6970	6445	6175	6055	5945			
			30000	15165	12320	9360	7600	6730	6270	5705	5465	5175	5015	4635	4440	4355	4275			
			60000	12320	10005	7600	6175	5465	5090	4635	4440	4205	4075	3765	3605	3535	3475			
3-3/16	90	22218	10000	23070	18740	14235	11560	10240	9535	8680	8315	7875	7630	7050	6755	6625	6525			
			30000	16590	13475	10240	8315	7365	6860	6245	5980	5660	5485	5070	4860	4765	4680			
			60000	13475	10945	8315	6755	5980	5570	5070	4860	4600	4455	4120	3945	3870	3800			
3-7/16 3-1/2	100	22220	10000	28835	23425	17795	14450	12795	11920	10850	10395	9840	9535	8815	8445					
			30000	20740	16845	12795	10395	9205	8575	7805	7475	7080	6860	6340	6070					
			60000	16845	13685	10395	8445	7475	6965	6340	6070	5750	5570	5150	4930					
3-15/16 4	110	22222	10000	36765	29865	22685	18425	16315	15200	13835	13255	12550	12155	11235						
			30000	26445	21480	16315	13255	11735	10930	9950	9530	9025	8745	8080						
			60000	21480	17445	13255	10765	9530	8880	8080	7740	7330	7100	6565						
4-3/16	120	22224	10000	43255	35135	26690	21680	19195	17880	16275	15590	14760	14305							
			30000	31110	25270	19195	15590	13805	12860	11705	11215	10615	10285							
			60000	25270	20525	15590	12665	11215	10445	9510	9110	8625	8355							
4-7/16 4-1/2	130	22226	10000	51545	41870	31805	25835	22875	21310	19395	18580	17590	17045							
			30000	37075	30115	22875	18580	16450	15325	13950	13365	12650	12260							
			60000	30115	24460	18580	15090	13365	12450	11330	10855	10275	9955							
4-15/16 5	140	22228	10000	59835	48605	36920	29990	26555	24735	22515	21570	20420	19785							
			30000	43035	34955	26555	21570	19100	17790	16195	15515	14685	14230							
			60000	34955	28395	21570	17520	15515	14450	13155	12600	11930	11560							
5-3/16	150	22230	10000	68490	55630	42260	34325	30395	28315	25770	24685	23375	22645							
			30000	49260	40010	30395	24685	21860	20365	18535	17755	16810	16286							
			60000	40010	32500	24685	20050	17755	16540	15055	14420	13655	13230							
5-7/16 5-1/2	160	22232	10000	77860	63240	48040	39020	34555	32185	29295	28065	26570								
			30000	56000	45485	34555	28065	24850	23150	21070	20185	19110								
			60000	45485	36945	28065	22795	20185	18805	17115	16395	15525								
5-15/16 6	170	22234	10000	90115	73195	55605	45165	39990	37255	33910	32485									
			30000	64815	52645	39990	32485	28765	26795	24390	23365									
			60000	52645	42760	32485	26385	23365	21765	19810	18975									

NOTE: Dark shaded areas require circulating oil. Light shaded areas require static oil.

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# SELECTION/DIMENSIONS



## SAF-XT and SAFS Spherical Roller Bearings

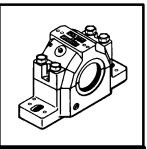
TABLE 16 – SELECTION TABLE

SHAFT SIZE			L <sub>10</sub> HRS.	ALLOWABLE EQUIVALENT RADIAL LOAD RATING (LBS.) AT VARIOUS REVOLUTIONS PER MINUTE																
ADAPTER MOUNT INCHES	DIRECT MOUNT mm	BEARING SERIES		50	100	250	500	750	950	1300	1500	1800	2000	2600	3000	3200	3400	4500	5600	
6-7/16 6-1/2	180	22236	10000	91920	74660	56715	46070	40790	38000	34585	33135									
			<b>30000</b>	<b>66110</b>	<b>53700</b>	<b>40790</b>	<b>33135</b>	<b>29340</b>	<b>27330</b>	<b>24875</b>	<b>23830</b>									
			60000	53700	43615	33135	26910	23830	22200	20205	19355									
6-15/16 7	190	22238	10000	97325	79055	60055	48780	43190	40235	36620										
			<b>30000</b>	<b>70000</b>	<b>56855</b>	<b>43190</b>	<b>35080</b>	<b>31065</b>	<b>28935</b>	<b>26340</b>										
			60000	56855	46180	35080	28495	25230	23505	21395										
7-3/16	200	22240	10000	108140	87835	66725	54200	47990	44705											
			<b>30000</b>	<b>77775</b>	<b>63175</b>	<b>47990</b>	<b>38980</b>	<b>34515</b>	<b>32155</b>											
			60000	63175	51315	38980	31660	28035	26115											
7-1/2 7-15/16 8	220	22244	10000	131570	106870	81185	65940	58390	54390											
			<b>30000</b>	<b>94630</b>	<b>76860</b>	<b>58390</b>	<b>47425</b>	<b>41995</b>	<b>39120</b>											
			60000	76860	62430	47425	38520	34110	31775											
8-7/16 8-15/16 9	—	23048	10000	93720	76125	57830	46970	41590	38745											
			<b>30000</b>	<b>67405</b>	<b>54750</b>	<b>41590</b>	<b>33785</b>	<b>29915</b>	<b>27865</b>											
			60000	54750	44470	33785	27440	24295	22635											
9-7/16 9-1/2	—	23052	10000	122560	99550	75625	61425	54390	50665											
			<b>30000</b>	<b>88145</b>	<b>71595</b>	<b>54390</b>	<b>44180</b>	<b>39120</b>	<b>36440</b>											
			60000	71595	58155	35885	35885	31775	29600											
9-15/16 10, 10-7/16 10-1/2	—	23056	10000	124360	101010	76735	62330	55190												
			<b>30000</b>	<b>89445</b>	<b>72650</b>	<b>55190</b>	<b>44825</b>	<b>39695</b>												
			60000	72650	59010	44825	36410	32240												

**NOTE:** Dark shaded areas require circulating oil.

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# SELECTION/DIMENSIONS



## Pillow Block Housing Permissible Thrust Load\* (lbs. Maximum)

SHAFT SIZE - INCHES	HSG. NO.	BEARING TYPE			
		SAF-XT		SAFS	
		2-BOLT	4-BOLT	2-BOLT	4-BOLT
1-3/16	507	—	—	2900	—
1-7/16	509	—	—	3100	—
1-11/16	510	—	—	2800	—
1-15/16	511	4700	—	4600	—
2-3/16	513	4800	—	4800	—
2-7/16, 2-1/2	515	4500	5600	4500	5600
2-11/16, 2-3/4	516	6900	9300	6900	9300
2-15/16, 3	517	6500	8700	6500	8700
3-3/16	518	6600	9000	6600	9000
3-7/16, 3-1/2	520	5500	13400	5500	13400
3-15/16, 4	522	—	13300	—	13300
4-3/16	524	—	12500	—	12500
4-7/16, 4-1/2	526	—	9700	—	9800
4-15/16, 5	528	—	14700	—	14700
5-3/16	530	—	14800	—	14800
5-7/16, 5-1/2	532	—	14000	—	14000
5-15/16, 6	534	—	14400	—	14300
6-7/16, 6-1/2	536	—	14200	—	14300
6-15/16, 7	538	—	22800	—	22800
7-1/2, 7-15/16, 8	544	—	32000	—	32000
8-7/16, 8-1/2, 8-15/16, 9	048	—	23000	—	23000
9-7/16, 9-1/2	052	—	32000	—	32000
9-15/16, 10, 10-7/16, 10-1/2	056	—	55000	—	59000

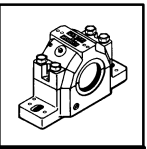
When utilizing heavy thrust loads on pillow block housings, the installation will require proper mounting procedures.

1. The pillow block base bolts must be of adequate strength (Grade 8) and properly tightened to the mounting structure.
2. The use of stop bars (shear strips) against pillow block mounting base is required.
3. Shaft shoulder, snap rings or thrust collars should be used to locate the inner ring on the shaft.
4. In all cases where thrust loads are large, the  $L_{10}$  Life of the bearing should be checked for proper selection and life requirements.

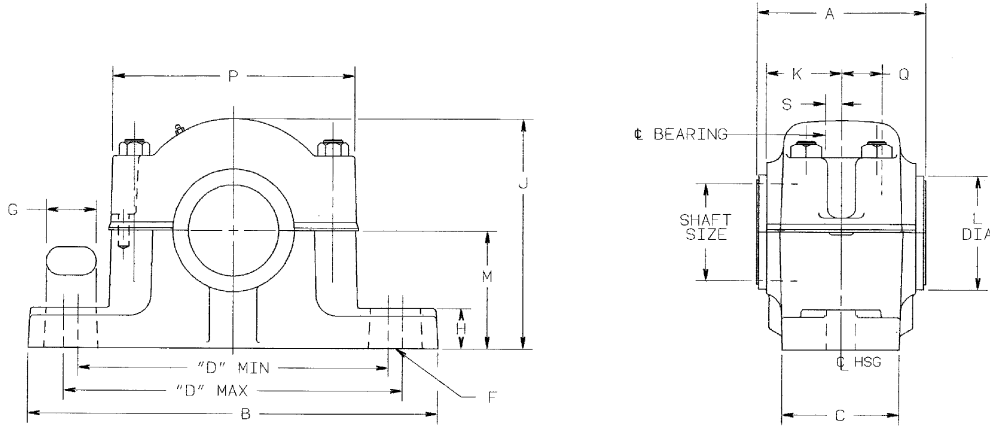
\* Spherical bearings require a radial load at least equal to the thrust load for proper operation  $F_A/F_R \leq 1$ . If the thrust load exceeds this limit, consult DODGE Application Engineering.

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# SELECTION/DIMENSIONS



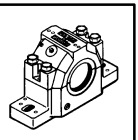
## SAF-XT Pillow Block Housings



S-1 Size Inch (mm)	Shaft Housing	2-Bolt		4-Bolt	
		Part Number	Approx. Wt. lbs	Part Number	Approx. Wt. lbs
1-15/16	511	042100	13.75	—	—
2-3/16 (55,60)	513 513M	042103 046323	18.00 18.00	—	—
2-7/16, 2-1/2 (65)	515 515M	042106 046324	22.75 22.00	042109 046325	22.00 22.00
2-11/16 2-3/4	516	042111	30.50	042114	30.00
2-15/16 3	517	042116	31.50	042119	32.00
3-3/16	518	042121	38.00	042124	40.00
3-7/16 3-1/2	520	042126	51.50	042129	52.00
3-15/16 4	522	—	—	042131	68.00
4-3/16 (110)	524 524M	—	—	042134 046326	70.00 70.00
4-7/16 4-1/2	526	—	—	042137	108
4-15/16 5	528	—	—	042140	143
5-3/16	530	—	—	042143	120
5-7/16 5-1/2	532	—	—	042146	168
5-15/16 6	534	—	—	042149	220
6-7/16 6-1/2	536	—	—	042152	266
6-15/16 7	538	—	—	042155	295
7-1/2	544S	—	—	042167	443
7-15/16 8	544	—	—	042158	443
8-7/16, 8-1/2 8-15/16, 9	048	—	—	042161	308
9-7/16 9-1/2	052	—	—	422555	440
9-15/16 10	056	—	—	042164	549
10-7/16 10-1/2	056L	—	—	422571	620

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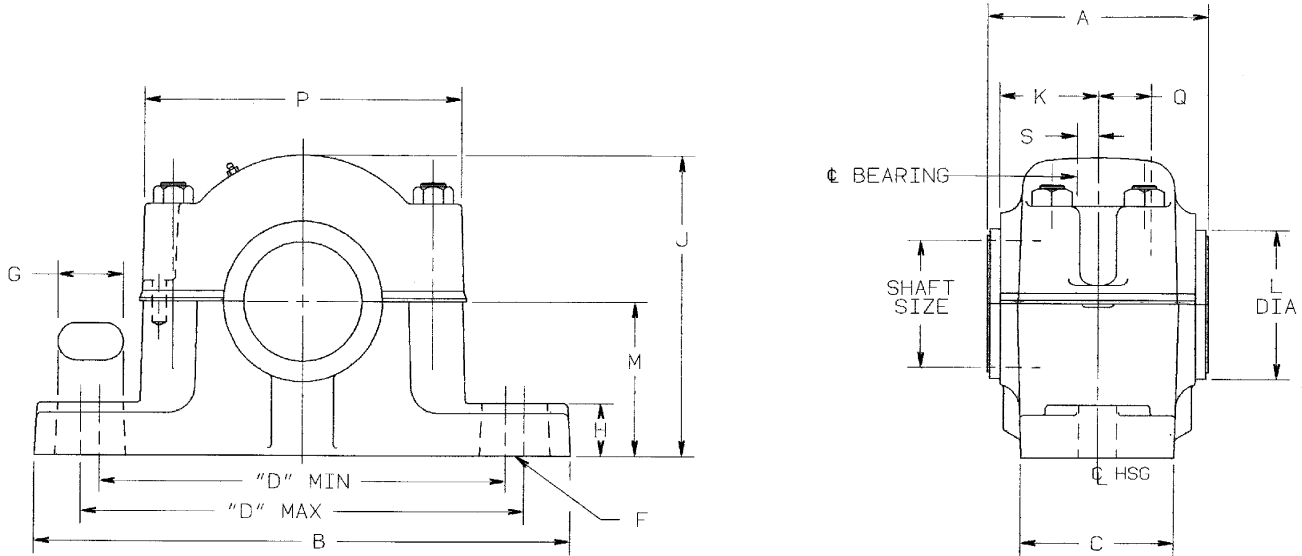




## SELECTION/DIMENSIONS

### SAF-XT Bearings

2-BOLT



(22200K Adapter Mount Bearing)

Shaft Size ▲ Inch	Complete Pillow Block Block Desig. SAF-XT	Part No. ★	Wt.	A			B	C	D		Bolt Dia. F	G	H	J	K	L ▼	M	P	Q ◆	S Ⓞ of Housing to Ⓞ of Bearing	
				Std. TRIPLE-TECT	Optional				Min.	Max.										Exp. Block	Non-Exp. Block
					LER	AUX.															
1-15/16	22511	042001	17.3	4-9/64	3-5/8	5-35/64	9-5/8	2-3/4	7-1/2	7-3/4	5/8	7/8	15/16	5-1/4	1-27/64	2-19/64	2-3/4	5-5/8	31/32	3/16	19/64
2-3/16	22513	042002	23.8	4-17/32	4	5-13/16	11	3-1/8	8-1/4	9-3/8	5/8	1-5/16	1	5-15/16	2-1/32	2-35/64	3	6-13/32	1-1/8	1/4	25/64
2-7/16 2-1/2	22515	042003 042004	29.7 29.6	4-29/32	4-27/64	7-7/16	11-1/4	3-1/8	8-3/4	9-1/2	5/8	1-1/8	1-1/4	6-7/16	2-3/16	2-51/64	3-1/4	7	1-13/64	5/32	17/64
2-11/16 2-3/4	22516	042005 042006	36.3 36.1	5-15/64	4-39/64	7-5/8	13	3-1/2	10-1/8	10-5/8	3/4	1-1/8	1-1/2	6-7/8	2-9/32	3-11/64	3-1/2	7-15/16	1-9/32	3/16	3/8
2-15/16 3	22517	042007 042008	42.3 42.1	5-31/64	4-55/64	7-7/8	13	3-1/2	10-1/4	10-3/4	3/4	1-1/8	1-1/2	7-3/8	2-13/32	3-27/64	3-3/4	7-15/16	1-3/8	3/16	3/8
3-3/16	22518	042009	52.5	5-61/64	5-7/16	8	13-3/4	3-7/8	10-3/4	11-1/4	3/4	1-1/8	1-5/8	7-3/4	2-21/32	3-11/16	4	8-7/16	1-13/32	19/64	31/64
3-7/16 3-1/2	22520	042010 042011	69.5 69.2	6-7/32	5-5/8	8-1/2	15-1/4	4-3/4	11-7/8	12-5/8	7/8	1-3/8	1-3/4	8-3/4	2-3/4	3-53/64	4-1/2	9-7/16	1-17/32	3/8	9/16

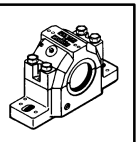
- ▲ Sizes not listed will be quoted on application.
- ★ Furnished unless otherwise specified. Includes (1) Housing with Spacer, (1) Standard Spherical Bearing, (1) SNW Assembly and (2) TRIPLE-TECT Seals.

- ◆ Distance shaft should extend beyond housing centerline (Ⓞ) if pillow block is closed end style.
- ▼ Dimensions shown with TRIPLE-TECT seals installed.

**NOTE:** SAF-XT Pillow Blocks use UNIFIED adaptors, seals and bearings. all UNIFIED 500 Series accessories are available for use with SAF-XT except Drop-In TRIPLE-TECT and SPLIT-SHER which are UNIFIED exclusives.

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# SELECTION/DIMENSIONS



## SAF-XT PILLOW BLOCKS — 4-BOLT BASE (2200K/2300K Adapter Mount Bearing)

Shaft Size ▲ Inch	Complete Pillow Block Desig. SAF-XT	Part No. ★ (P4B-SFXT)	Wt.	A			B	C	D		E	Bolt Dia. F	G	H	J	K	L ▼	M	P	Q ◆	S Ⓞ of Housing to Ⓞ of Bearing	
				Std. TRIPLE-TECT	Optional				Min.	Max.											Exp. Block	Non-Exp. Block
					LER	AUX.																
2-7/16 2-1/2	22515	042015 042016	29.7 29.6	4-29/32	4-27/64	7-7/16	11-1/4	3-1/8	8-5/8	9-5/8	1-7/8	1/2	1-1/8	1-1/4	6-7/16	2-3/16	2-51/64	3-1/4	7	1-13/64	5/32	17/64
2-11/16 2-3/4	22516	042017 042030	36.3 36.1	5-15/64	4-39/64	7-5/8	13	3-1/2	9-7/8	10-7/8	2-1/8	5/8	1-1/4	1-1/2	6-7/8	2-9/32	3-11/64	3-1/2	7-15/16	1-9/32	3/16	3/8
2-15/16 3	22517	042019 042020	42.3 42.1	5-31/64	4-55/64	7-7/8	13	3-1/2	10	11	2-1/8	5/8	1-1/4	1-1/2	7-3/8	2-13/32	3-27/64	3-3/4	7-15/16	1-3/8	3/16	3/8
3-3/16	22518	042021	52.5	5-61/64	5-7/16	8	13-3/4	3-7/8	10-1/2	11-1/2	2-1/8	5/8	1-1/4	1-5/8	7-3/4	2-21/32	3-11/16	4	8-7/16	1-13/32	19/32	31/64
3-7/16 3-1/2	22520	042022 042023	69.5 69.2	6-7/32	5-5/8	8-1/2	15-1/4	4-3/8	11-3/4	12-3/4	2-3/8	3/4	1-3/8	1-3/4	8-3/4	2-3/4	3-53/64	4-1/2	9-7/16	1-17/32	3/8	9/16
3-15/16 4	22522	042024 042025	92.9 92.6	6-51/64	6-5/16	8-41/64	16-1/2	4-3/4	12-7/8	14-1/8	2-3/4	3/4	1-1/2	2	9-5/8	3-1/32	4-21/64	4-15/16	10-9/16	1-47/64	3/8	35/64
4-3/16	22524	042270	101.8	6-31/32	6-3/8	8-57/64	16-1/2	4-3/4	13-1/4	14-1/2	2-3/4	3/4	1-1/2	1-3/4	10-1/4	3-1/16	4-19/32	5-1/4	10-13/16	1-13/16	27/64	39/64
4-7/16 4-1/2	22526	042271 042272	148 147.7	7-13/32	6-13/16	9-29/64	18-3/8	5-1/8	14-1/2	16	3-1/4	7/8	1-3/4	2-1/2	11-11/16	3-9/32	4-15/16	6	11-5/8	1-61/64	29/64	41/64
4-15/16 5	22528	042273 042274	173.9 173.6	7-21/32	7-1/16	10-21/64	20-1/8	5-7/8	15-5/8	17-3/8	3-3/8	1	2	2-1/2	12-1/8	3-13/32	5-23/64	6	12-7/16	2-3/64	1/2	11/16
5-3/16	22530	042282	215	7-31/32	7-3/8	10-41/64	21-1/4	6-1/4	16-3/4	18-1/2	3-3/4	1	2	2-1/2	12-13/16	3-9/16	5-49/64	6-5/16	13-9/16	2-3/64	9/16	3/4
5-7/16 5-1/2	22532	042283 042284	245 244	8-9/32	7-11/16	10-29/64	22	6-1/4	17-3/8	19-1/8	3-3/4	1	2	2-3/4	13-11/16	3-23/32	5-7/8	6-11/16	14-3/16	2-21/64	37/64	49/64
5-15/16 6	22534	042303 042304	300 299	8-21/32	7-15/16	10-45/64	24-3/4	6-3/4	19-5/8	21-3/8	4-1/4	1	2	2-7/8	14-9/16	3-27/32	6-7/16	7-1/16	16-5/16	2-15/32	37/64	25/32
6-7/16 6-1/2	22536	042305 042306	372 371	8-27/32	8-1/8	11-25/64	26-3/4	7-1/8	21-3/8	23-1/8	4-5/8	1	2	3	15-1/4	3-15/16	6-51/64	7-1/2	17-7/8	2-17/32	35/64	3/4
6-15/16 7	22538	042307 042308	407 406	9-11/32	8-5/8	11-15/32	28	7-1/2	22-1/8	23-7/8	4-1/2	1-1/4	2-1/4	3-1/8	16	4-3/16	7-3/8	7-7/8	18-5/16	2-29/64	5/8	13/16
7-1/2	22544	042309	626	10-21/32	9-15/16	13-13/64	32-3/4	8-3/4	25-1/8	27-7/8	5-1/4	1-1/2	3	3-7/8	19-1/4	4-27/32	7-15/16	9-1/2	20-5/8	2-59/64	23/32	29/32
7-15/16 8	22544	042370 042371	625 624	10-21/32	9-15/16	13-13/64	32-3/4	8-3/4			5-1/4	1-1/2	3	3-7/8	19-1/4	4-27/32	8-21/64	9-1/2	20-5/8	2-59/64	23/32	29/32
8-7/16 8-1/2 8-15/16 9	23048	042372† 042373 042374 042375	408 407 406 405	10-1/2	9-1/16	12-37/64	28-3/4	8	22-1/2	25	5	1-1/4	2-3/4	3-1/4	17-1/16	4-13/32	9-21/64	8-1/4	18-5/16	2-15/16	25/32	25/32
9-7/16 9-1/2	23052	042377 042556	624	10-23/64	9-15/16	13-29/64	32-3/4	8-3/4	25-1/8	27-7/8	5-1/4	1-1/2	3	3-7/8	19-1/4	4-27/32	9-63/64	9-1/2	20-5/8	3-7/32	45/64	45/64
9-15/16 10 10-7/16 10-1/2	2356	042378● 042376 042379● 042572●	707	13-49/64	12-1/2	15-45/64	32	11-1/4	25-3/4	27-3/4	7-1/4	1-3/4	2-7/8	4	19-7/8	6-5/32	10-3/8	9-1/2	20-3/4	3-13/16	7/8	7/8

▲ Sizes not listed will be quoted on application.

★ Includes (1) Housing with Spacer, (1) Standard Spherical Bearing, (1) SNW Assembly (SNP above 8") and (2) TRIPLE-TECT Seals unless otherwise noted.

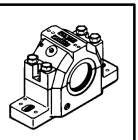
◆ Distance shaft should extend beyond housing centerline (Ⓞ) if pillow block is closed end style.

▼ Dimensions shown with TRIPLE-TECT seals installed.

● Made-To-Order — Consult DODGE for price and delivery.

† Assembled to order. Consult DODGE for delivery.

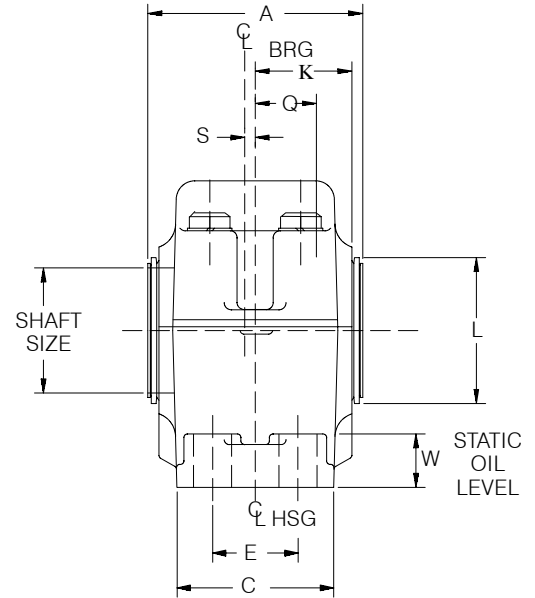
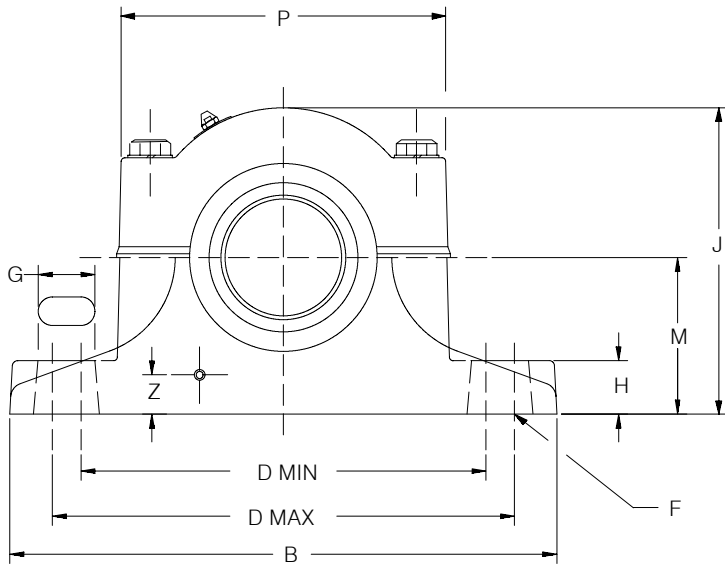
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## SELECTION/DIMENSIONS

### SAFS Pillow Blocks

(22200K/23000K ADAPTER MOUNT BEARING)

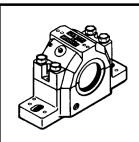


Shaft Size Inch ▲	Housing No.	Part Numbers				SDAF Pillow Block 4-Bolt	Approx. Wt. lbs.	A with Seals			B	C
		SAFS 2-Bolt		SAFS 4-Bolt				Std.	Optional			
		Complete Pillow Block	Housing Only	Complete Pillow Block	Housing Only			TRIPLE-TECT	LER/ER	Aux.		
2-7/16	515	042400	042425	042410	042428	.....	24	5-5/32	4-43/64	7-7/16	11-1/4	3-1/8
2-1/2	515	042401	042425	042411	042428	.....						
2-11/16	516	042407†	044231	042408†	044232	.....	32	5-27/64	4-51/64	7-5/8	13	3-1/2
2-3/4	516	042420†	044231	042421†	044232	.....						
2-15/16	517	042402	042433	042412	042436	.....	35	5-39/64	4-63/64	7-7/8	13	3-1/2
3	517	042403	042433	042413	042436	.....						
3-3/16	518	042424†	044233	042430†	044234	.....	44	6-9/64	5-5/8	8	13-3/4	3-7/8
3-7/16	520	042404	042440	042414	042443	.....	74	6-13/32	5-13/16	8-1/2	15-1/4	4-3/8
3-1/2	520	042405	042440	042415	042443	.....						
3-15/16	522	—	—	042416	042450	.....	97	6-55/64	6-3/8	8-41/64	16-1/2	4-3/4
4	522	—	—	042417	042450	.....						
4-3/16	524	—	—	042432†	044235	.....	120	8-1/32	7-7/16	8-57/64	16-1/2	4-3/4
4-7/16	526	—	—	042568	042455	.....	160	8-15/32	7-7/8	9-29/64	18-3/8	5-1/8
4-1/2	526	—	—	042575	042455	.....						
4-15/16	528	—	—	042569	042460	.....	175	8-3/32	7-1/2	10-21/64	20-1/8	5-7/8
5	528	—	—	042576	042460	.....						
5-3/16	530	—	—	042439†	044236	.....	220	8-3/4	8-5/32	10-41/64	21-1/4	6-1/4
5-7/16	532	—	—	042570	042465	.....	245	9-7/32	8-5/8	10-29/64	22	6-1/4
5-1/2	532	—	—	042577	042465	.....						
5-15/16	534	—	—	042571	042469	.....	310	9-58/64	9-1/8	11-7/8	24-3/4	6-3/4
6	534	—	—	042578	042469	.....						
6-7/16	536	—	—	042572	042468	.....	345	10-11/32	9-5/8	11-25/64	26-3/4	7-1/8
6-1/2	536	—	—	042579	042468	.....						
6-15/16	538	—	—	042573	042472	.....	400	10-27/32	10-1/8	11-5/32	28	7-1/2
7	538	—	—	042580	042472	.....						
7-1/2	544	—	—	042446†	044237	.....	640	12-3/32	11-5/8	13-13/64	32-3/4	8-3/4
7-15/16	544	—	—	042581	042447	.....						
8	544	—	—	042574	042477	.....						

★ Includes: (1) Housing with Spacers, (1) Standard Spherical Bearing, (1) SNW Assembly (SNP above 8") and (2) TRIPLE-TECT Seals unless otherwise noted. SDAF (Cast Iron); SAFS (Cast Steel)  
 † Made-to-order. Consult DODGE for price and delivery.

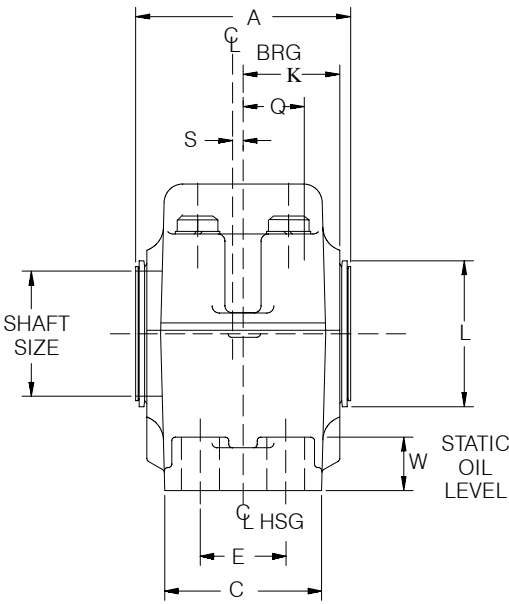
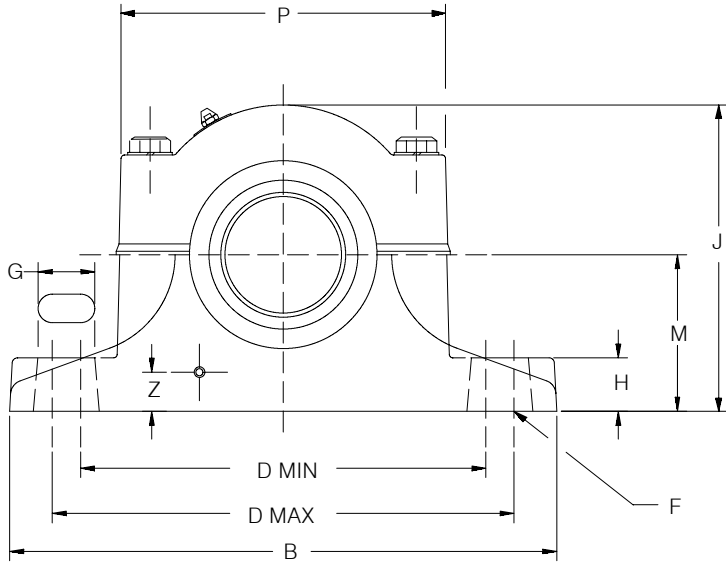
▲ Sizes not listed will be quoted on application.  
**SAFS 2-Bolt Pillow Block (P2B-SAFS - - -)**  
**SAFS 4-Bolt Pillow Block (P4B-SAFS - - -)**

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# SELECTION/DIMENSIONS

## SAFS Pillow Blocks

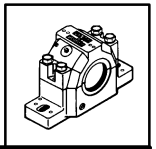


SHAFT SIZE INCH	DIMENSION D				E	BOLT DIA.		G	H	J	K	L	M	P	Q	S	W	Z
	2-Bolt		4-Bolt			F												
	MIN.	MAX.	MIN.	MAX.		2B	4B											
2-7/16 2-1/2	8-3/4	9-1/2	8-5/8	9-5/8	1-7/8	5/8	1/2	1-1/8	1-1/4	6-7/16	2-5/16	2-51/64	3-1/4	7-1/16	1-11/32	1/8	1-5/32	5/8
2-11/16 2-3/4	10-1/8	10-5/8	9-7/8	10-7/8	2-1/8	3/4	5/8	1-1/4	1-1/2	6-7/8	2-3/8	3-11/64	3-1/2	8	1-15/32	3/16	1-1/4	5/8
2-15/16 3	10-1/4	10-3/4	10	11	2-1/8	3/4	5/8	1-1/8, 2B 1-1/4, 4B	1-1/2	7-3/8	2-15/32	3-27/64	3-3/4	8-1/4	1-9/16	3/16	1-3/8	3/4
3-3/16	10-3/4	11-1/4	10-1/2	11-1/2	2-1/8	3/4	5/8	1-1/4	1-5/8	7-3/4	2-3/4	3-11/16	4	8-1/4	1-45/64	3/16	1-15/32	11/16
3-7/16 3-1/2	11-7/8	12-5/8	11-3/4	12-3/4	2-3/8	7/8	3/4	1-3/8	1-3/4	8-3/4	2-29/32	3-53/64	4-1/2	9-13/16	1-57/64	3/16	1-41/64	15/16
3-15/16 4	—	—	12-7/8	14-1/8	2-3/4	—	3/4	1-1/2	2	9-5/8	3-1/8	4-21/64	4-15/16	10-5/8	2-5/64	3/16	1-51/64	1-1/8
4-3/16	—	—	13-1/4	14-1/2	2-3/4	—	3/4	1-1/2	1-3/4	10-1/4	3-21/32	4-19/32	5-1/4	11-1/2	2-7/32	3/16	1-27/32	1
4-7/16 4-1/2	—	—	14-1/2	16	3-1/4	—	7/8	1-3/4	2-1/2	11-9/16	3-7/8	4-15/16	6	12-13/16	2-13/32	3/16	2-11/32	1-9/32
4-15/16 5	—	—	15-5/8	17-3/8	3-3/8	—	1	2	2-1/2	12	3-11/16	5-23/64	6	13-9/16	2-17/32	3/16	2-1/32	1-3/16
5-3/16	—	—	16-3/4	18-1/2	3-3/4	—	1	2	2-1/2	12-13/16	4-1/16	5-49/64	6-5/16	14-1/2	2-11/16	3/16	2-1/32	1-3/16
5-7/16 5-1/2	—	—	17-3/8	19-1/8	3-3/4	—	1	2	2-3/4	13-11/16	4-1/4	5-7/8	6-11/16	15-1/8	2-57/64	3/16	2-3/32	1-7/32
5-15/16 6	—	—	19-3/8	21-5/8	4-1/4	—	1	2	2-7/8	14-9/16	4-5/8	6-7/16	7-1/16	16-13/16	3-1/8	3/16	2-3/16	1-36/64
6-7/16 6-1/2	—	—	21-3/8	23-1/8	4-5/8	—	1	2	3	15-1/4	4-13/16	6-51/64	7-1/2	17-3/16	3-5/64	3/16	2-27/64	1-3/32
6-15/16 7	—	—	22-1/8	23-7/8	4-1/2	—	1-1/4	2-1/4	3-1/8	16-1/8	5-1/8	7-3/8	7-7/8	17-7/8	3-15/64	3/16	2-17/32	1-5/16
7-1/2 7-15/16 8	—	—	25-1/8	27-7/8	5-1/4	—	1-1/2	3	3-7/8	19-1/4	5-3/4	7-15/16 8-21/64	9-1/2	20-3/4	3-41/64	3/16	3-1/4	1-7/8

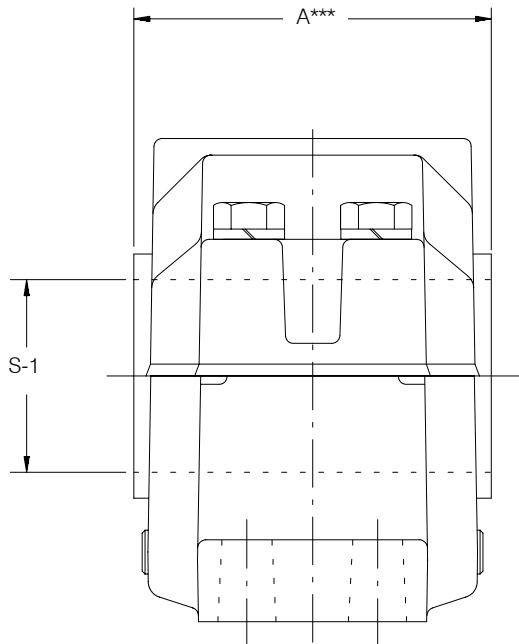
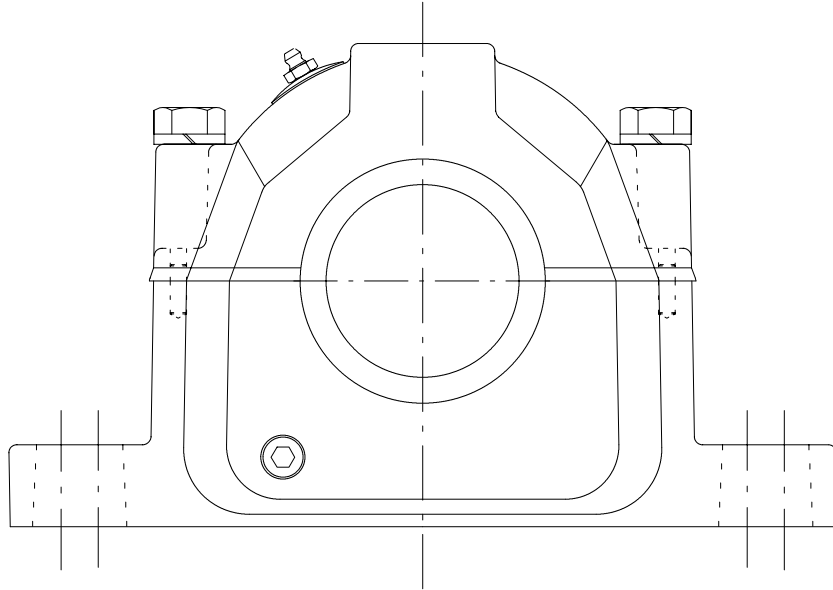
- ◆ Distance shaft should extend beyond housing centerline of pillow block is closed end style.
- ★ Non-expansion bearing offset from centerline. For Expansion Bearing S = 0.
- Based on TRIPLE-TECT seals.

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# SELECTION/DIMENSIONS

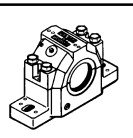


## USAF 600 Adapter Mount Pillow Block With Triple-Tect Seal Assembly



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# SELECTION/DIMENSIONS



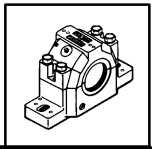
## USAF 600 Adapter Mount Pillow Block With Triple-Tect Seal Assembly

### 600 OPEN

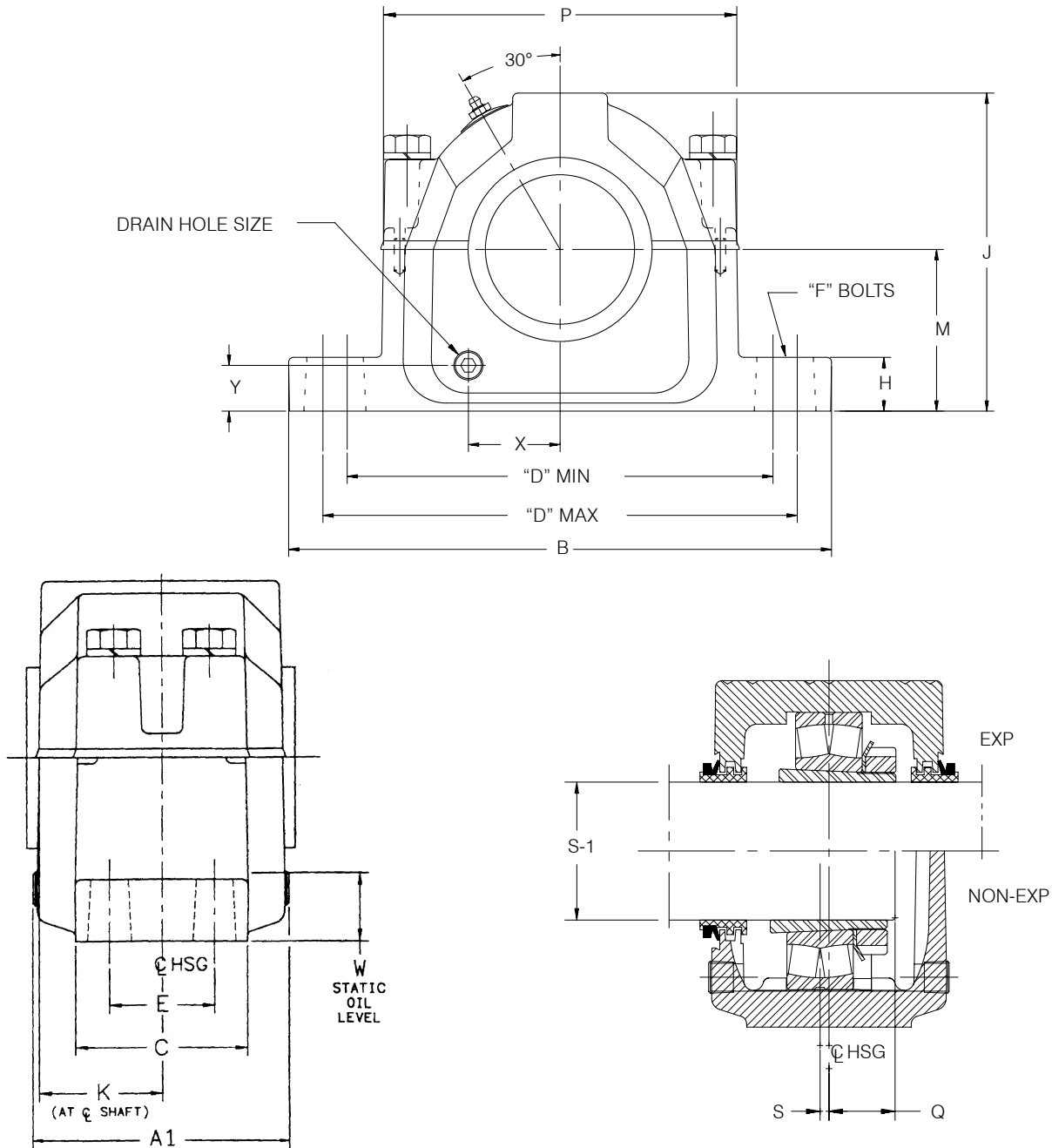
Shaft Dia S-1	Complete Pillow Block Part #	Housing W/ Stab Ring Part No.	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	SNW Part No.	Triple Tect Part No.	TTDN Part No.	LER Part No.	End Cover
1-7/16	P2B609-USAF-107TT 039403	H2S-609-USAF 039758	BRG22309KC3 423100	35,500	3,800	H2309-SNW-107 046550	08TT107 043578	---	08LER107 042193	EC08 040700
1-11/16	P2B610-USAF-111TT 035929	H2S-610-USAF 035431	BRG22310KC3 423372	42,500	3,400	H2310-SNW-111 046680	10TT111 043579	---	10LER111 042199	EC10 040701
1-15/16	P2B611-USAF-115TT 039404	H2S-611-USAF 039760	BRG22311KC3 423102	50,000	3,200	H2311-SNW-115 046551	12TT115 043540	12TTDN115 039582	12LER115 042512	EC12 040702
	P4B611-USAF-115TT 039413	H4S-611-USAF 039762	BRG22311KC3 423102	50,000	3,200	H2311-SNW-115 046551	12TT115 043540	12TTDN115 039582	12LER115 042512	EC12 040702
2-3/16	P2B613-USAF-203TT 039405	H2S-613-USAF 039764	BRG22313KC3 423104	65,500	2,600	H2313-SNW-203 046552	14TT203 043541	14TTDN203 039583	14LER203 042513	EC14 040703
	P4B613-USAF-203TT 039414	H4S-613-USAF 039766	BRG22313KC3 423104	65,500	2,600	H2313-SNW-203 046552	14TT203 043541	14TTDN203 039583	14LER203 042513	EC14 040703
2-7/16	P2B615-USAF-207TT 039406	H2S-615-USAF 039768	BRG22315KC3 423106	83,000	2,200	H2315-SNW-207 046553	20TT207 043542	20TTDN207 039538	20LER207 042514	EC20 040704
	P4B615-USAF-207TT 039415	H4S-615-USAF 039770	BRG22315KC3 423106	83,000	2,200	H2315-SNW-207 046553	20TT207 043542	20TTDN207 039538	20LER207 042514	EC20 040704
2-11/16	P2B616-USAF-211TT 035930	H2S-616-USAF 035432	BRG22316KC3 423373	93,000	2,200	H2316-SNW-211 046682	24TT211 043544	24TTDN211 039855	24LER211 042516	EC24 040705
	P4B616-USAF-211TT 035931	H4S-616-USAF 035433	BRG22316KC3 423373	93,000	2,200	H2316-SNW-211 046682	24TT211 043544	24TTDN211 039855	24LER211 042516	EC24 040705
2-15/16	P2B617-USAF-215TT 039407	H2S-617-USAF 039772	BRG22317KC3 423108	102,000	2,000	H2317-SNW-215 046554	28TT215 043546	28TTDN215 039530	28LER215 042518	EC28 040706
	P4B617-USAF-215TT 039416	H4S-617-USAF 039774	BRG22317KC3 423108	102,000	2,000	H2317-SNW-215 046554	28TT215 043546	28TTDN215 039530	28LER215 042518	EC28 040706
3-7/16	P4B620-USAF-307TT 039417	H4S-620-USAF 039776	BRG22320KC3 423110	146,000	1,700	H2320-SNW-307 046555	46TT307 043549	46TTDN307 039859	46LER307 042521	EC46 040708
3-15/16	P4B622-USAF-315TT 039418	H4S-622-USAF 039778	BRG22322KC3 423112	180,000	1,500	H2322-SNW-315 046556	50TT315 043551	50TTDN315 039861	50LER315 042523	EC50 040709
4-3/16	P4B624-USAF-403TT 039419	H4S-624-USAF 039780	BRG22324KC3 422140	204,000	1,400	H2324-SNW-403 046557	52TT403 043553	52TTDN403 039863	52LER403 042525	EC52 040710
4-7/16	P4B626-USAF-407TT 039420	H4S-626-USAF 039781	BRG22326KC3 423114	236,000	1,300	H2326-SNW-407 046558	54TT407 043554	54TTDN407 039864	54LER407 042526	EC54 040711
4-15/16	P4B628-USAF-415TT 039421	H4S-628-USAF 039553	BRG22328KC3 422035	275,000	1,200	H2328-SNW-415 046559	56TT415 043556	56TTDN415 039866	56LER415 042528	EC56 040712
5-3/16	P4B630-USAF-503TT 039422	H4S-630-USAF 039782	BRG22330KC3 423116	310,000	1,100	H2330-SNW-503 046560	58TT503 043558	---	58LER503 042530	EC58 040713
5-7/16	P4B632-USAF-507TT 039423	H4S-632-USAF 039783	BRG22332KC3 423118	325,000	1,000	H2332-SNW-507 046561	60TT507 043559	---	60LER507 042531	EC60 040714
5-15/16	P4B634-USAF-515TT 039424	H4S-634-USAF 039784	BRG22334KC3 423120	360,000	950	H2332-SNW-515 046562	64TT515 043560	---	64LER515 042533	EC64 040681
6	P4B634-USAF-600TT 039425	H4S-634-USAF 039784	BRG22334KC3 423120	360,000	950	H2334-SNW-600 046563	64TT600 043561	---	64LER600 042534	EC64 040681
6-15/16	P4B638-USAF-615TT 039426	H4S-638-USAF 039785	BRG22338KC3 423122	415,000	850	H2338-SNW-615 046564	72TT615 043564	---	72LER615 042537	EC72 040683
7	P4B638-USAF-700TT 039427	H4S-638-USAF 039785	BRG22338KC3 423122	415,000	850	H2338-SNW-700 046565	72TT700 043565	---	72LER700 042538	EC72 040683

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# SELECTION/DIMENSIONS

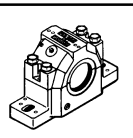


## USAF 600 Housing Dimensions — Inch



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# SELECTION/DIMENSIONS



## USAF 600 Housing Dimensions — Inch

USAF 600 HOUSING DIMENSIONS — INCH												
S1 SHAFT SIZE	HOUSING	A1▲	B	C	D				E	F BOLT DIA.		
					2-BOLT		4-BOLT			2-BOLT	4-BOLT	
					MIN	MAX	MIN	MAX				
1-7/16	609	4-1/4	9-5/8	2-3/4	7-3/8	8-1/4	—	—	—	5/8	—	
1-11/16	610	4-45/64	10-5/8	2-3/4	7-3/4	9	—	—	—	5/8	—	
1-15/16	611	4-41/64	11	3-1/8	8-1/8	9-1/2	8-1/8	9-1/2	1-7/8	5/8	1/2	
2-3/16	613	5-7/16	12-19/32	3-1/2	9-5/8	11	9-5/8	11	2-1/8	3/4	5/8	
2-7/16	615	6-5/32	13-5/8	3-7/8	10-1/4	11-3/4	10-3/8	11-5/8	2-1/8	3/4	5/8	
2-11/16	616	6-3/8	14-11/64	3-7/8	10-7/8	12-3/8	10-5/8	12-1/2	2-1/8	3/4	5/8	
2-15/16	617	6-25/32	15-23/64	4-11/32	11-5/8	13-1/8	11-5/8	13-1/8	2-3/8	7/8	3/4	
3-7/16	620	8-3/64	16-1/2	4-23/32	—	—	13-1/4	14-1/2	2-3/4	—	3/4	
3-15/16	622	8-17/64	18-3/8	5-1/8	—	—	14-1/2	16	3-1/4	—	7/8	
4-3/16	624	9-23/64	20-7/8	6-1/4	—	—	16-3/4	18-1/4	3-3/4	—	1	
4-7/16	626	9-59/64	21-21/32	6-1/4	—	—	17-3/8	19-1/4	3-3/4	—	1	
4-15/16	628	9-29/32	24-3/4	6-3/4	—	—	19-3/8	21-5/8	4-1/4	—	1	
5-3/16	630	10-13/32	26-3/4	7-1/8	—	—	20-7/8	23-5/8	4-5/8	—	1	
5-7/16	632	10-13/16	28	7-1/2	—	—	21-5/8	24-3/8	4-1/2	—	1-1/4	
5-15/16 6	634	11-17/32	28-3/4	8	—	—	22-1/2	25	5	—	1-1/4	
6-15/16 7	638	12-19/64	32-3/4	8-7/8	—	—	24-3/4	27-7/8	5-1/4	—	1-1/2	

S-1 SHAFT SIZE	HOUSING	H	J	K	M	P	Q ★	S ●	W STATIC OIL LEVEL	X	Y	DRAIN HOLE SIZE
1-7/16	609	1-1/32	5-1/4	1-31/32	2-3/4	5-25/32	1-15/64	1/8	1-9/32	1-15/16	53/64	1/8-27NPSI
1-11/16	610	1-13/32	5-23/32	2-13/64	3	6-1/8	1-3/8	7/32	1-3/8	1-17/32	63/64	1/8-27NPSI
1-15/16	611	1-9/32	6-3/16	2-5/32	3-1/4	6-1/2	1-27/64	1/8	1-11/16	1-21/32	1-1/32	1/8-27NPSI
2-3/16	613	1-1/16	6-3/4	2-27/64	3-1/2	7-15/16	1-37/64	3/16	1-13/32	1-31/32	61/64	1/4-18NPSF
2-7/16	615	1-7/16	7-3/4	2-27/32	4	8-21/32	1-49/64	3/16	1-19/32	2-1/4	1-1/8	3/8-18NPSF
2-11/16	616	1-7/32	8-1/4	2-61/64	4-1/4	9-1/32	1-53/64	3/16	1-11/16	2-3/8	1-11/64	3/8-18NPSF
2-15/16	617	1-21/32	8-3/4	3-5/32	4-1/2	9-25/32	1-29/32	3/16	1-3/4	2-5/8	1-1/4	3/8-18NPSF
3-7/16	620	1-1/2	10-1/4	3-41/64	5-1/4	11-1/4	2-19/64	3/16	2-1/32	3-3/16	1-3/8	1/2-14NPSF
3-15/16	622	2-1/16	11-17/32	3-3/4	6	12-13/32	2-1/2	3/16	2-13/32	3-5/16	1-5/8	1/2-14NPSF
4-3/16	624	2-3/8	12-1/2	4-21/64	6-5/16	14-5/16	2-41/64	3/16	2-3/8	3-19/32	1-21/64	1/2-14NPSF
4-7/16	626	2-11/32	13-5/16	4-5/8	6-11/16	14-29/32	2-27/32	3/16	2-7/16	4-1/32	1-21/64	1/2-14NPSF
4-15/16	628	2-7/8	14-9/16	4-5/8	7-1/16	16-13/16	3-3/32	3/16	2-9/16	4-5/32	1-21/64	1/2-14NPSF
5-3/16	630	3	15-1/8	4-7/8	7-1/2	17-3/16	3-17/64	3/16	2-5/8	4-7/32	1-5/8	1/2-14NPSF
5-7/16	632	3-1/8	15-13/16	5-1/16	7-7/8	18	3-7/16	3/16	2-11/16	4-3/4	1-39/64	1/2-14NPSF
5-15/16 6	634	3-3/8	16-5/8	5-7/16	8-1/4	19	3-19/32	3/16	2-3/4	4-29/32	1-17/32	1/2-14NPSF
6-15/16 7	638	3-3/4	18-7/8	5-13/16	9-1/2	21-1/4	3-57/64	3/16	3-3/8	5-7/16	2-1/32	1/2-14NPSF

▲ Housing width with drain plugs

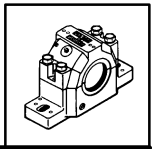
★ Distance shaft should extend beyond housing centerline if pillow block is closed end style

● Non-expansion bearing offset from centerline. For expansion bearing S = 0.

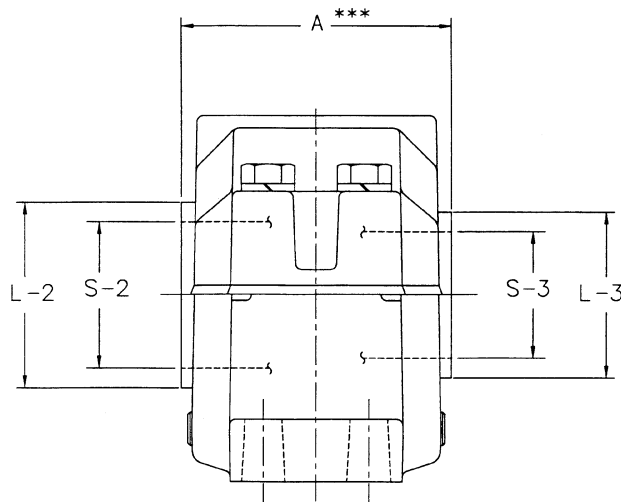
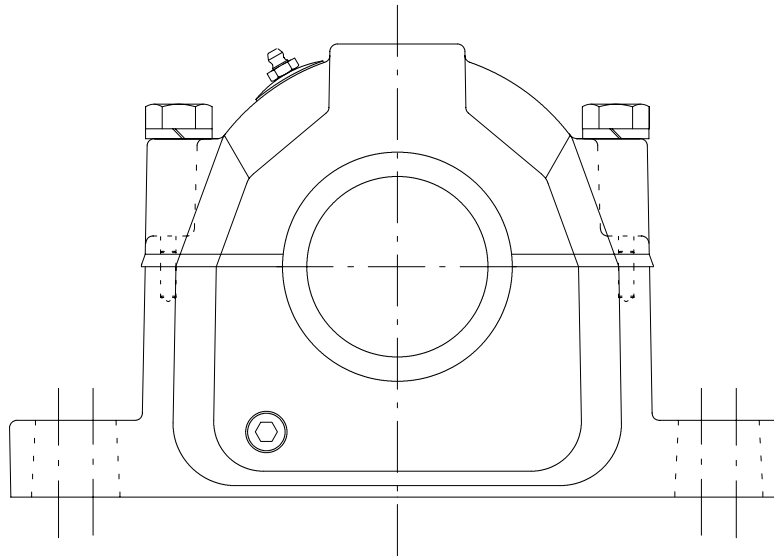
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# SELECTION/DIMENSIONS

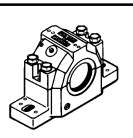


## USAF 200 Direct Mount Pillow Block With Triple-Tect Seal Assembly



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# SELECTION/DIMENSIONS

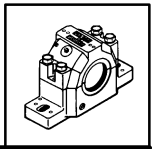


## USAF 200 Direct Mount Pillow Block With Triple-Tect Seal Assembly

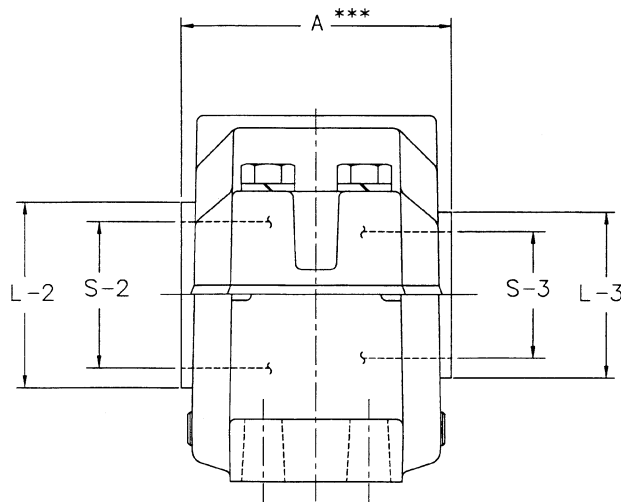
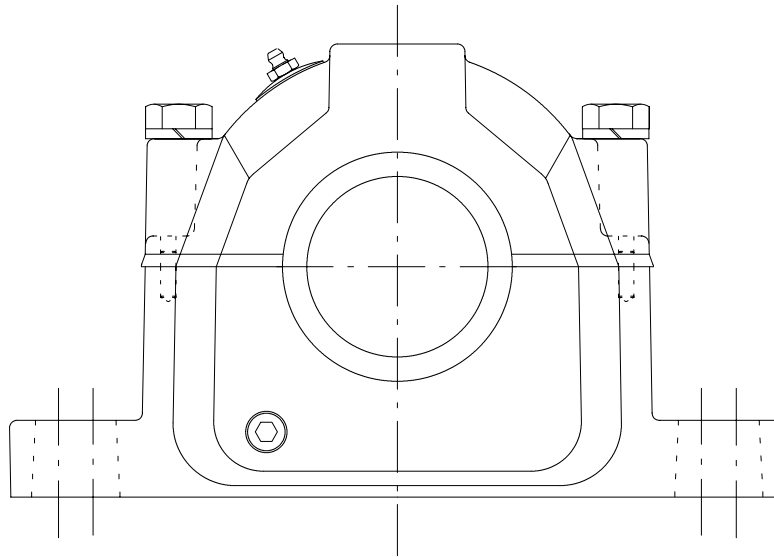
Shaft Dia.		Bearing Bore mm.	Complete Pillow Block Part #	Housing Part No. **	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	Locknut Part No.
S--2	S--3							
3-7/16	2-13/16	75	P2B215--USAF--307TT 039175	H2S--215--USAF 039682	BRG22215C3 421265	41,500	3,400	AN15 460901
			P4B215--USAF--307TT 039177	H4S--215--USAF 039684	BRG22215C3 421265	41,500	3,400	AN15 460901
3-5/8	3	80	P2B216--USAF--310TT 039179	H2S--216--USAF 039686	BRG22216C3 421266	46,500	3,200	AN16 460902
			P4B216--USAF--310TT 039181	H4S--216--USAF 039688	BRG22216C3 421266	46,500	3,200	AN16 460902
3-15/16	3-3/16	85	P2B217--USAF--315TT 039183	H2S--217--USAF 039690	BRG22217C3 421267	58,500	3,000	AN17 460903
			P4B217--USAF--315TT 039185	H4S--217--USAF 039692	BRG22217C3 421267	58,500	3,000	AN17 460903
4-1/8	3-3/8	90	P2B218--USAF--402TT 039187	H2S--218--USAF 039694	BRG22218C3 421268	64,000	2,600	AN18 460904
			P4B218--USAF--402TT 039189	H4S--218--USAF 039696	BRG22218C3 421268	64,000	2,600	AN18 460904
4-1/2	3-13/16	100	P2B220--USAF--408TT 039191	H2S--220--USAF 039698	BRG22220C3 421269	80,000	2,200	AN20 460905
			P4B220--USAF--408TT 039193	H4S--220--USAF 039700	BRG22220C3 421269	80,000	2,200	AN20 460905
4-7/8	4-3/16	110	P4B222--USAF--414TT 039195	H4S--222--USAF 039702	BRG22222C3 421270	102,000	2,000	AN22 460906
5-5/16	4-9/16	120	P4B224--USAF--505TT 039197	H4S--224--USAF 039704	BRG22224C3 421271	120,000	1,900	AN24 41071
5-7/8	4-18/16	130	P4B226--USAF--514TT 039199	H4S--226--USAF 039706	BRG22226C3 421272	143,000	1,800	AN26 41064
6-1/4	5-5/16	140	P4B228--USAF--604TT 039201	H4S--228--USAF 039708	BRG22228C3 421273	166,000	1,700	AN28 41065
6-5/8	5-3/4	150	P4B230--USAF--610TT 039203	H4S--230--USAF 039710	BRG22230C3 421274	190,000	1,600	AN30 41072
7	6-1/16	160	P4B232--USAF--700TT 039205	H4S--232--USAF 039711	BRG22232C3 421275	216,000	1,500	AN32 41066
7-7/16	6-7/16	170	P4B234--USAF--707TT 039207	H4S--234--USAF 039712	BRG22234C3 421276	250,000	1,300	AN34 41067
7-13/16	6-7/8	180	P4B236--USAF--713TT 039209	H4S--236--USAF 039713	BRG22236C3 421277	255,000	1,300	AN36 41070
8-3/8	7-1/4	190	P4B238--USAF--806TT 039211	H4S--238--USAF 039714	BRG22238C3 421278	270,000	1,200	AN38 41068
8-3/4	7-5/8	200	P4B240--USAF--812TT 039213	H4S--240--USAF 039715	BRG22240C3 421279	300,000	900	AN40 40838
9-9/16	8-5/16	220	P4B244--USAF--909TT 039215	H4S--244--USAF 039716	BRG22244C3 421280	365,000	950	AN44 41069

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# SELECTION/DIMENSIONS

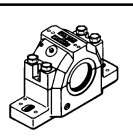


## USAF 200 Direct Mount Pillow Block With Triple-Tect Seal Assembly



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# SELECTION/DIMENSIONS

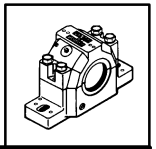


## USAF 200 Direct Mount Pillow Block With Triple-Tect Seal Assembly

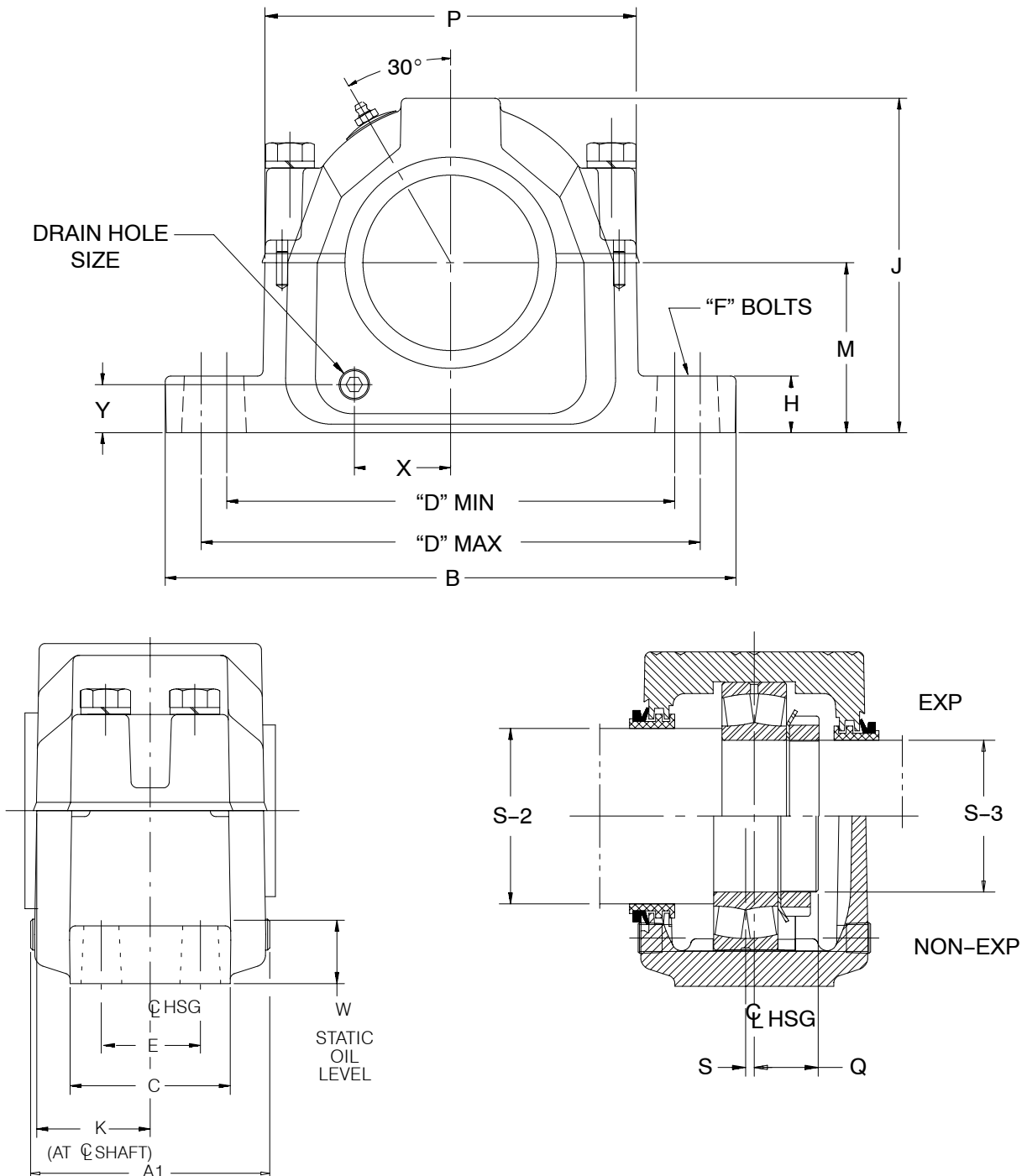
Shaft Dia.		Bearing Bore mm.	Lockwasher Part No.	Triple Tect Part No.		TTDNDN Part No.		LER Part No.		End Cover
S--2	S--3			S2	S3	S2	S3	S2	S3	
3-7/16	2-13/16	75	W15 419150	33TT307 046401	24TT213 046400	33TTDN307 039568	24TTDN213 039289	33LER307 045928	24LER213 045927	EC24 040705
			W15 419150	33TT307 046401	24TT213 046400	33TTDN307 039568	24TTDN213 039289	33LER307 045928	24LER213 045927	EC24 040705
3-5/8	3	80	W16 419152	38TT310 046402	28TT300 042547	38TTDN310 039291	28TTDN300 039857	38LER310 045931	28LER300 042519	EC28 040706
			W16 419152	38TT310 046402	28TT300 042547	38TTDN310 039291	28TTDN300 039857	38LER310 045931	28LER300 042519	EC28 040706
3-15/16	3-3/16	85	W17 419154	42TT315 046404	32TT303 046403	42TTDN315 039515	32TTDN303 039292	42LER315 042089	32LER303 042088	-----
			W17 419154	42TT315 046404	32TT303 046403	42TTDN315 039515	32TTDN303 039292	42LER315 042089	32LER303 042088	-----
4-1/8	3-3/8	90	W18 419156	44TT402 046406	36TT306 046405	-----	-----	44LER402 045936	36LER306 045934	-----
			W18 419156	44TT402 046406	36TT306 046405	-----	-----	44LER402 045936	36LER306 045934	-----
4-1/2	3-13/16	100	W20 419158	54TT408 043555	50TT313 046407	-----	-----	54LER408 042527	50LER313 045939	EC50 040709
			W20 419158	54TT408 043555	50TT313 046407	-----	-----	54LER408 042527	50LER313 045939	EC50 040709
4-7/8	4-3/16	110	W22 419160	56TT414 046408	52TT403 043553	56TTDN414 039297	52TTDN403 039863	56LER414 042098	52LER403 042525	EC52 040710
5-5/16	4-9/16	120	W24 419162	58TT510 046411	54TT409 046409	-----	-----	58LER510 042248	54LER409 042943	EC54 040711
5-7/8	4-18/16	130	W26 419164	62TT514 046410	56TT415 043556	-----	-----	62LER514 042085	56LER415 042528	EC56 040712
6-1/4	5-5/16	140	W28 419166	66TT604 046412	58TT505 046411	-----	-----	66LER604 042249	58LER505 042248	EC58 040713
6-5/8	5-3/4	150	W30 419168	70TT610 046414	62TT512 046413	-----	-----	70LER610 045951	62LER512 045949	-----
7	6-1/16	160	W32 419170	72TT700 043565	64TT601 046415	-----	-----	72LER700 042538	64LER601 042953	EC64 040681
7-7/16	6-7/16	170	W34 419172	76TT707 046416	68TT607 043562	-----	-----	76LER707 042049	68LER607 042535	EC68 040682
7-13/16	6-7/8	180	W36 419174	78TT711 046417	72TT614 046418	-----	-----	78LER711 042221	72LER614 042220	EC72 040683
8-3/8	7-1/4	190	W38 419176	80TT806 046420	74TT704 046419	-----	-----	80LER806 042031	74LER704 042032	-----
8-3/4	7-5/8	200	W40 419171	82TT812 046423	76TT710 046422	-----	-----	82LER812 045956	76LER710 045955	EC76 040684
9-9/16	8-5/16	220	W44 419178	84TT909 046425	80TT805 046424	-----	-----	84LER909 042029	80LER805 042028	-----

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# SELECTION/DIMENSIONS

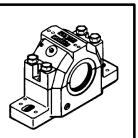


## USAF 200 Housing Dimensions — Inch



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# SELECTION/DIMENSIONS



## USAF 200 Housing Dimensions — Inch

USAF 200 HOUSING DIMENSIONS — INCH												
S-2 SHAFT SIZE	S-3 SHAFT SIZE	HOUSING	A1 ▲	B	C	D				E	F	
						2-BOLT		4-BOLT			BOLT DIA.	
						MIN	MAX	MIN	MAX		H	J
3-7/16	2-13/16	215	5-13/64	11-1/8	3-1/8	8-5/8	9-5/8	8-5/8	9-5/8	1-7/8	5/8	1/2
3-5/8	3	216	5-7/16	12-19/32	3-1/2	9-5/8	11	9-5/8	11	2-1/8	3/4	5/8
3-15/16	3-3/16	217	5-25/64	12-19/32	3-1/2	9-7/8	11	9-7/8	11	2-1/8	3/4	5/8
4-1/8	3-3/8	218	6-5/32	13-5/8	3-7/8	10-1/4	11-3/4	10-3/8	11-5/8	2-1/8	3/4	5/8
4-1/2	3-13/16	220	6-25/32	15-23/64	4-11/32	11-5/8	13-1/8	11-5/8	13-1/8	2-3/8	7/8	3/4
4-7/8	4-3/16	222	7-5/64	16-1/2	4-3/4	—	—	12-19/32	14-1/2	2-3/4	—	3/4
5-5/16	4-9/16	224	8-3/64	16-1/2	4-23/32	—	—	13-1/4	14-1/2	2-3/4	—	3/4
5-7/8	4-15/16	226	8-17/64	18-3/8	5-1/8	—	—	14-1/2	16	3-1/4	—	7/8
6-1/4	5-5/16	228	8-49/64	19-11/16	5-7/8	—	—	15-5/8	17-3/8	3-3/8	—	1
6-5/8	5-3/4	230	9-23/64	20-7/8	6-1/4	—	—	16-3/4	18-1/4	3-3/4	—	1
7	6-1/16	232	9-59/64	21-21/32	6-1/4	—	—	17-3/8	19-1/4	3-3/4	—	1
7-7/16	6-7/16	234	9-29/32	24-3/4	6-3/4	—	—	19-3/8	21-5/8	4-1/4	—	1
7-13/16	6-7/8	236	10-13/32	26-3/4	7-1/8	—	—	20-7/8	23-5/8	4-5/8	—	1
8-3/8	7-1/4	238	10-13/16	28	7-1/2	—	—	21-5/8	24-3/8	4-1/2	—	1-1/4
8-3/4	7-5/8	240	11-17/32	28-3/4	8	—	—	22-1/2	25	5	—	1-1/4
9-9/16	8-5/16	244	12-19/64	32-3/4	8-7/8	—	—	24-3/4	27-7/8	5-1/4	—	1-1/2

S-2 SHAFT SIZE	S-3 SHAFT SIZE	HOUSING	H	J	K	M	P	Q *	S •	W STATIC OIL LEVEL	X	Y	DRAIN HOLE SIZE
3-7/16	2-13/16	215	1-1/4	6-7/16	2-5/16	3-1/4	7-1/16	1-25/64	1/8	1-5/32	1-25/32	7/8	1/4-18NPSF
3-5/8	3	216	1-1/16	6-3/4	2-27/64	3-1/2	7-15/16	1-7/16	3/16	1-1/4	1-31/32	61/64	1/4-18NPSF
3-15/16	3-3/16	217	1-1/4	7-3/8	2-15/32	3-3/4	8-3/16	1-1/2	3/16	1-3/8	2-1/8	1-1/16	3/8-18NPSF
4-1/8	3-3/8	218	1-7/16	7-3/4	2-27/32	4	8-21/32	1-23/32	3/16	1-15/32	2-1/4	1-1/8	3/8-18NPSF
4-1/2	3-13/16	220	1-21/32	8-3/4	3-5/32	4-1/2	9-25/32	1-59/64	3/16	1-41/64	2-5/8	1-1/4	3/8-18NPSF
4-7/8	4-3/16	222	1-25/32	9-13/32	3-19/64	4-15/16	10-19/32	2-3/32	3/16	1-51/64	2-7/8	1-11/32	3/8-18NPSF
5-5/16	4-9/16	224	1-1/2	10-1/4	3-41/64	5-1/4	11-1/4	2-9/32	3/16	1-27/32	3-3/16	1-3/8	1/2-14NPSF
5-7/8	4-15/16	226	2-1/16	11-17/32	3-3/4	6	12-13/32	2-15/32	3/16	2-11/32	3-5/16	1-5/8	1/2-14NPSF
6-1/4	5-5/16	228	2-1/16	11-13/16	4	6	13-1/4	2-29/64	3/16	2-1/32	3-5/8	1-15/32	1/2-14NPSF
6-5/8	5-3/4	230	2-3/8	12-1/2	4-21/64	6-5/16	14-5/16	2-39/64	3/16	2-1/32	3-19/32	1-21/64	1/2-14NPSF
7	6-1/16	232	2-11/32	13-5/16	4-5/8	6-11/16	14-29/32	2-31/32	3/16	2-3/32	4-1/32	1-21/64	1/2-14NPSF
7-7/16	6-7/16	234	2-7/8	14-9/16	4-5/8	7-1/16	16-13/16	3-1/8	3/16	2-3/16	4-5/32	1-21/64	1/2-14NPSF
7-13/16	6-7/8	236	3	15-1/8	4-7/8	7-1/2	17-3/16	3-5/32	3/16	2-27/64	4-7/32	1-5/8	1/2-14NPSF
8-3/8	7-1/4	238	3-1/8	15-13/16	5-1/16	7-7/8	18	3-19/64	3/16	2-17/32	4-3/4	1-39/64	1/2-14NPSF
8-3/4	7-5/8	240	3-3/8	16-5/8	5-7/16	8-1/4	19	3-1/2	3/16	2-15/32	4-29/32	1-17/32	1/2-14NPSF
9-9/16	8-5/16	244	3-3/4	18-7/8	5-13/16	9-1/2	21-1/4	3-27/64	3/16	3-1/4	5-7/16	2-1/32	1/2-14NPSF

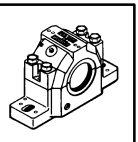
▲ Housing width with drain plugs

\*\* Distance shaft should extend beyond housing centerline, if plummer block is closed end style.

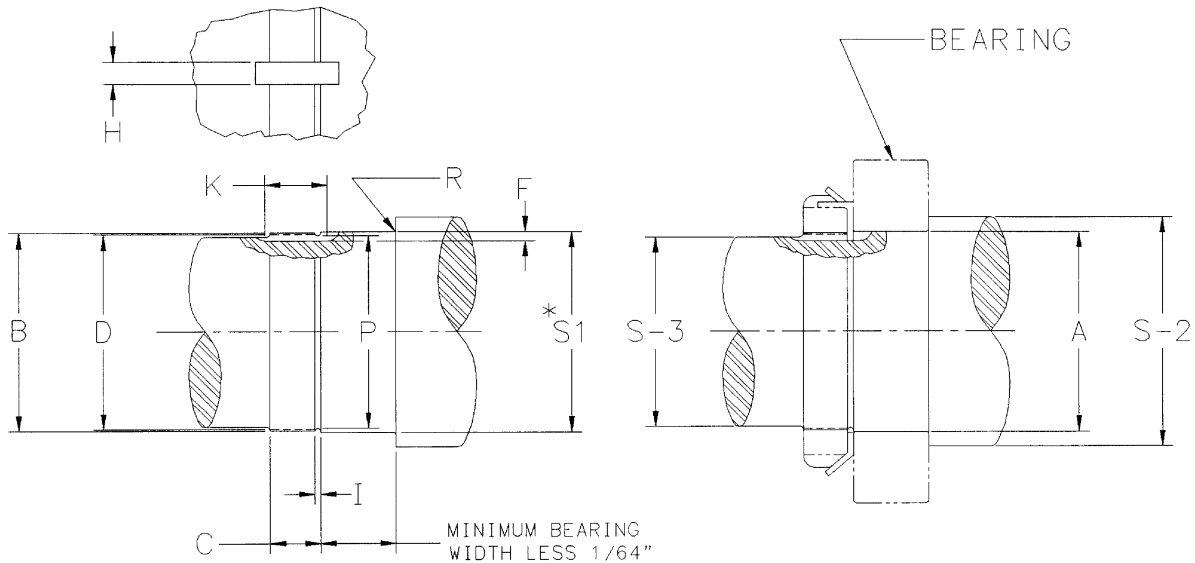
• Non-expansion bearing offset from centerline. for expansion bearing S = 0.

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# SELECTION/DIMENSIONS



## USAF 22200 Bearing Shaft Details



NOMINAL BEARING BORE DIA. (mm)	SHAFT BEARING SEAT DIAMETERS (INCH)					
	NORMAL LOAD			HIGH LOAD		
	* S-I		MEAN FIT	* S-I		MEAN FIT
	MAX	MIN		MAX	MIN	
75	2.9540	2.9532	.0011T	2.9543	2.9536	.0014T
80	3.1508	3.1501	.0012T	3.1511	3.1504	.0015T
85	3.3479	3.3470	.0014T	3.3484	3.3475	.0019T
90	3.5447	3.5438		3.5452	3.5443	
95	3.7416	3.7407		3.7421	3.7412	
100	3.9384	3.9375		3.9389	3.9380	
105	4.1353	4.1344		4.1358	4.1349	
110	4.3321	4.3312	.0016T	4.3326	4.3317	.0022T
120	4.7258	4.7249		4.7263	4.7254	
125	4.9229	4.9219		4.9235	4.9225	
130	5.1197	5.1187		5.1203	5.1193	
140	5.5134	5.5124		5.5140	5.5130	
150	5.9071	5.9061	.0019T	5.9077	5.9067	.0032T
160	6.3008	6.2998		6.3014	6.3004	
170	6.6945	6.6935		6.6951	6.6941	
180	7.0882	7.0872		7.0888	7.0878	
190	7.4821	7.4809		7.4829	7.4817	
200	7.8758	7.8746	.0019T	7.8772	7.8760	.0032T
220	8.6632	8.6620		8.6646	8.6634	

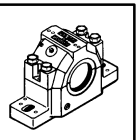
Normal Load  
P/C = 0.10 TO 0.18

High Load  
P/C > 0.18

Where P= Equivalent dynamic load on the bearing (lbs.)  
C= Basic dynamic load rating of bearing (lbs.)

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# SELECTION/DIMENSIONS



## USAF 22200 Bearing Shaft Details

USAF 22200 BEARING SHAFT DIMENSIONS — INCH								
HOUSING	LOCKNUT & WASHER KIT PART NO.	A BRG BORE	S-2	S-3	KEYWAY			R MAX RADIUS
					F DEPTH +1/64 -0	H WIDTH +1/64 -0	K FULL DEPTH LENGTH	
215	046756	2.9528 (75mm)	3-7/16	2-13/16	1/8	5/16	15/16	.059
216	046757	3.1496 (80 mm)	3-5/8	3	1/8	3/8	15/16	.079
217	046758	3.3465 (85 mm)	3-15/16	3-3/16	1/8	3/8	31/32	.079
218	046759	3.5433 (90 mm)	4-1/8	3-3/8	5/32	3/8	1-1/16	.079
220	046760	3.9370 (100 mm)	4-1/2	3-13/16	5/32	3/8	1-3/16	.079
222	046761	4.3307 (110 mm)	4-7/8	4-3/16	3/16	3/8	1-7/32	.079
224	046762	4.7244 (120 mm)	5-5/16	4-9/16	3/16	3/8	1-1/4	.079
226	046763	5.1181 (130 mm)	5-7/8	4-15/16	3/16	1/2	1-5/16	.098
228	046764	5.5118 (140 mm)	6-1/4	5-5/16	3/16	5/8	1-3/8	.098
230	046765	5.9055 (150 mm)	6-5/8	5-3/4	7/32	5/8	1-1/2	.098
232	046766	6.2992 (160 mm)	7	6-1/16	15/64	5/8	1-9/16	.098
234	046767	6.6929 (170 mm)	7-7/16	6-7/16	15/64	3/4	1-19/32	.118
236	046768	7.0866 (180 mm)	7-13/16	6-7/8	15/64	3/4	1-5/8	.118
238	046769	7.4803 (190 mm)	8-3/8	7-1/4	15/64	3/4	1-21/32	.118
240	046770	7.8740 (200 mm)	8-3/4	7-5/8	15/64	7/8	1-23/32	.118
244	046771	8.6614 (220 mm)	9-9/16	8-5/16	3/8	1-1/16	1-9/16	.118

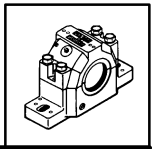
USAF 22200 BEARING SHAFT DIMENSIONS — INCH								
HOUSING	THREADS PER INCH	B THREAD MAJOR DIA		D THREAD PITCH DIA		C THREAD LENGTH +1/64 -0	I THREAD RELIEF +1/64 -0	P† THREAD RELIEF DIA.
		MAX	MIN	MAX	MIN			
215	12	2.9330	2.9218	2.8789	2.8735	11/16	5/32	2.7995
216	12	3.1370	3.1258	3.0829	3.0770	11/16	5/32	3.0035
217	12	3.3400	3.3288	3.2859	3.2800	23/32	5/32	3.2065
218	12	3.5270	3.5158	3.4729	3.4655	13/16	5/32	3.3935
220	12	3.9180	3.9068	3.8639	3.8565	7/8	5/32	3.7845
222	12	4.325	4.3138	4.2709	4.2626	29/32	5/32	4.1915
224	12	4.716	4.7048	4.6619	4.6536	15/16	5/32	4.5825
226	12	5.106	5.0948	5.0519	5.0436	1	5/32	4.9725
228	12	5.497	5.4858	5.4429	5.4346	1-1/16	5/32	5.3635
230	12	5.888	5.8768	5.8339	5.8256	1-1/8	5/32	5.7545
232	8	6.284	6.2688	6.2028	6.1937	1-3/16	1/4	6.0993
234	8	6.659	6.6438	6.5778	6.5687	1-7/32	1/4	6.4743
236	8	7.066	7.0508	6.9848	6.9757	1-1/4	1/4	6.8813
238	8	7.472	7.4568	7.3908	7.3817	1-9/32	1/4	7.2873
240	8	7.847	7.8318	7.7658	7.7544	1-11/32	1/4	7.6623
244	8	8.628	8.6128	8.5468	8.5347	1-3/8	1/4	8.4433

† Tolerance ±.005 through 2.6672 dia.; ±.010 for larger sizes

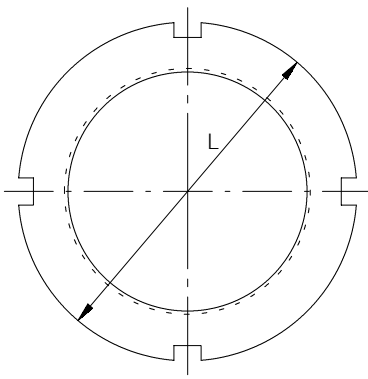
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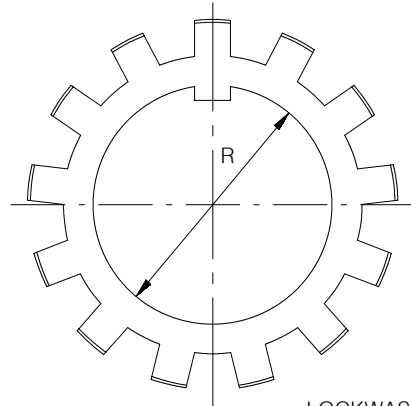
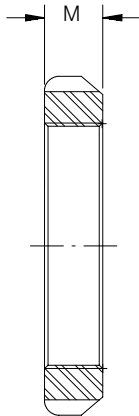
# SELECTION/DIMENSIONS



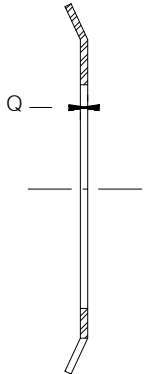
## USAF 22200 Bearing Locknuts & Washers



LOCKNUT

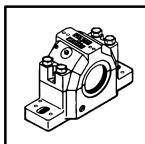


LOCKWASHER



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# SELECTION/DIMENSIONS

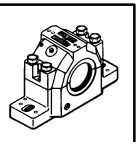


## USAF 22200 Bearing Locknuts & Washers

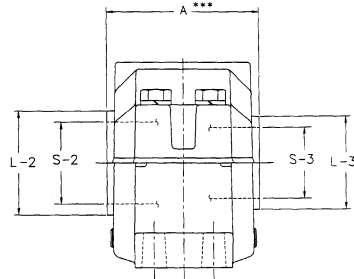
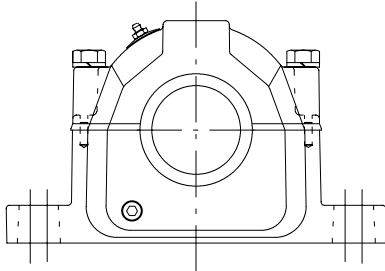
HOUSING	LOCKNUT		LOCKWASHER		L (INCH)	M (INCH)	R (INCH)	Q (INCH)
	DESCRIP.	PART NO.	DESCRIP.	PART NO.				
215	AN15	460901	W15	419150	3.88	.59	2.988	.072
216	AN16	460902	W16	419152	4.16	.59	3.192	.072
217	AN17	460903	W17	419154	4.41	.62	3.410	.072
218	AN18	460904	W18	419156	4.66	.69	3.597	.094
220	AN20	460905	W20	419158	5.19	.75	4.003	.094
222	AN22	460906	W22	419160	5.72	.78	4.410	.125
224	AN24	041071	W24	419162	6.12	.81	4.816	.125
226	AN26	041064	W26	419164	6.75	.88	5.209	.125
228	AN28	041065	W28	419166	7.09	.94	5.600	.125
230	AN30	041072	W30	419168	7.69	.97	6.001	.156
232	AN32	041066	W32	419170	8.06	1.03	6.407	.156
234	AN34	041067	W34	419172	8.66	1.06	6.782	.156
236	AN36	041070	W36	419174	9.06	1.09	7.189	.156
238	AN38	041068	W38	419176	9.47	1.12	7.595	.156
240	AN40	040838	W40	419171	9.84	1.19	8.000	.156
244	N44	041069	W44	419178	11.00	1.25	8.719	.156

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# SELECTION/DIMENSIONS



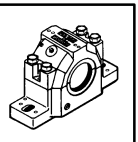
## USAF 300 Direct Mount Pillow Block With Triple-Tect Seal Assembly



Shaft Dia.		Bearing Bore mm.	Complete Pillow Block Part #	Housing Part No. **	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	Locknut Part No.
S-2	S-3							
1-15/16	1-7/16	40	P2B308-USAF-115TT 039355	H2S-308-USAF 039717	BRG22308C3 423124	29,000	4,300	N08 407305
2-1/8	1-11/16	45	P2B309-USAF-202TT 039356	H2S-309-USAF 039719	BRG22309C3 423125	35,500	3,800	N09 419187
2-3/8	1-7/8	50	P2B310-USAF-206TT 039315	H2S-310-USAF 035437	BRG22310C3 423143	42,500	3,400	N10 419188
2-9/16	2-1/16	55	P2B311-USAF-209TT 039357	H2S-311-USAF 039721	BRG22311C3 423126	50,000	3,200	N11 419184
			P4B311-USAF-209TT 039371	H4S-311-USAF 039723	BRG22311C3 423126	50,000	3,200	N11 419184
2-7/8	2-1/4	60	P2B312-USAF-214TT 039358	H2S-312-USAF 039725	BRG22312C3 423127	58,200	2,800	N12 407302
			P4B312-USAF-214TT 039372	H4S-312-USAF 039727	BRG22312C3 423127	58,200	2,800	N12 407302
3-1/6	2-7/16	65	P2B313-USAF-301TT 039359	H2S-313-USAF 039729	BRG22313C3 423128	65,500	2,600	N13 419185
			P4B313-USAF-301TT 039373	H4S-313-USAF 039731	BRG22313C3 423128	65,500	2,600	N13 419185
3-1/4	2-5/8	70	P2B314-USAF-304TT 039360	H2S-314-USAF 039733	BRG22314C3 423129	72,000	2,400	N14 407036
			P4B314-USAF-304TT 039374	H4S-314-USAF 039735	BRG22314C3 423129	72,000	2,400	N14 407036
3-7/16	2-13/16	75	P2B315-USAF-307TT 039361	H2S-315-USAF 039737	BRG22315C3 423130	83,000	2,200	AN15 460901
			P4B315-USAF-307TT 039375	H4S-315-USAF 039739	BRG22315C3 423130	83,000	2,200	AN15 460901
3-5/8	3	80	P2B316-USAF-310TT 035916	H2S-316-USAF 035438	BRG22316C3 423144	93,000	2,200	AN16 460902
			P4B316-USAF-310TT 035917	H4S-316-USAF 035439	BRG22316C3 423144	93,000	2,200	AN16 460902
3-15/16	3-3/16	85	P2B317-USAF-315TT 039362	H2S-317-USAF 039741	BRG22317C3 423131	102,000	2,000	AN17 460903
			P4B317-USAF-315TT 039376	H4S-317-USAF 039743	BRG22317C3 423131	102,000	2,000	AN17 460903

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# SELECTION/DIMENSIONS

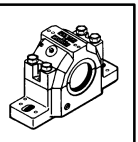


## USAF 300 Direct Mount Pillow Block With Triple-Tect Seal Assembly

Shaft Dia.		Bearing Bore mm.	Lockwasher Part No.	Triple Tect Part No.		TTDNDN Part No.		LER Part No.		End Cover
S-2	S-3			S2	S3	S-2	S-3	S2	S3	
1-15/16	1-7/16	40	W08 419151	12TT115 043540	08TT107 043578	---	---	12LER115 042512	08LER107 042193	EC-08 040700
2-1/8	1-11/16	45	W09 419180	14TT202 046464	10TT111 043579	---	---	14LER202 046472	10LER111 042199	EC-10 040701
2-3/8	1-7/8	50	W10 419181	18TT206 046166	12TT114 046167	---	---	18LER206 046175	12LER114 046176	EC-12 040702
2-9/16	2-1/16	55	W11 419182	22TT209 046466	14TT201 046463	22TTDN209 035748	14TTDN201 035745	22LER209 046474	14LER201 046471	EC-14 040703
			W11 419182	22TT209 046466	14TT201 046463	22TTDN209 035748	14TTDN201 035745	22LER209 046474	14LER201 046471	EC-14 040703
2-7/8	2-1/4	60	W12 419008	26TT214 046468	14TT204 046465	26TTDN214 035750	14TTDN204 035747	26LER214 046476	14LER204 046473	EC-14 040703
			W12 419008	26TT214 046468	14TT204 046465	26TTDN214 035750	14TTDN204 035747	26LER214 046476	14LER204 046473	EC-14 040703
3-1/6	2-7/16	65	W13 419183	28TT301 046469	22TT207 046168	28TTDN301 035751	22TTDN207 035744	28LER301 046477	22LER207 046177	---
			W13 419183	28TT301 046469	22TT207 046168	28TTDN301 035751	22TTDN207 035744	28LER301 046477	22LER207 046177	---
3-1/4	2-5/8	70	W14 419153	32TT304 046470	22TT210 046467	32TTDN304 035752	22TTDN210 035749	32LER304 046478	22LER210 046475	---
			W14 419153	32TT304 046470	22TT210 046467	32TTDN304 035752	22TTDN210 035749	32LER304 046478	22LER210 046475	---
3-7/16	2-13/16	75	W15 419150	33TT307 046401	24TT213 046400	33TTDN307 039568	24TTDN213 039289	33LER307 045928	24LER213 045927	EC24 040705
			W15 419150	33TT307 046401	24TT213 046400	33TTDN307 039568	24TTDN213 039289	33LER307 045928	24LER213 045927	EC24 040705
3-5/8	3	80	W16 419152	38TT310 046402	28TT300 042547	38TTDN310 039291	28TTDN300 039857	38LER310 045931	28LER300 042519	EC28 040706
			W16 419152	38TT310 046402	28TT300 042547	38TTDN310 039291	28TTDN300 039857	38LER310 045931	28LER300 042519	EC28 040706
3-15/16	3-3/16	85	W17 419154	42TT315 046404	32TT303 046403	42TTDN315 039515	32TTDN303 039292	42LER315 042089	32LER303 042088	---
			W17 419154	42TT315 046404	32TT303 046403	42TTDN315 039515	32TTDN303 039292	42LER315 042089	32LER303 042088	---

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# SELECTION/DIMENSIONS

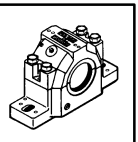


## USAF 300 Direct Mount Pillow Block With Triple-Tect Seal Assembly

Shaft Dia.		Bearing Bore mm.	Complete Pillow Block Part #	Housing Part No. **	Bearing Part No.	Dynamic Capacity (C), lbs.	Max Rpm LER (Grease)	Locknut Part No.
S-2	S-3							
4-1/2	3-13/16	100	P4B320-USAF-408TT 039377	H4S-320-USAF 039745	BRG22320C3 423132	146,000	1,700	AN20 460905
4-7/8	4-3/16	110	P4B322-USAF-414TT 039378	H4S-322-USAF 039747	BRG22322C3 423133	180,000	1,500	AN22 460906
5-5/16	4-9/16	120	P4B324-USAF-505TT 039380	H4S-324-USAF 039749	BRG22324C3 423134	204,000	1,400	AN24 41071
5-7/8	4-15/16	130	P4B326-USAF-514TT 039381	H4S-326-USAF 039750	BRG22326C3 423135	236,000	1,300	AN26 41064
6-1/4	5-5/16	140	P4B328-USAF-604TT 039382	H4S-328-USAF 039751	BRG22328C3 423136	275,000	1,200	AN28 41065
6-5/8	5-3/4	150	P4B330-USAF-610TT 039383	H4S-330-USAF 039752	BRG22330C3 423137	310,000	1,100	AN30 41072
7	6-1/16	160	P4B332-USAF-700TT 039384	H4S-332-USAF 039753	BRG22332C3 423138	325,000	1,000	AN32 41066
7-7/16	6-7/16	170	P4B334-USAF-707TT 039385	H4S-334-USAF 039754	BRG22334C3 423139	360,000	950	AN34 41067
8-3/8	7-1/4	190	P4B338-USAF-806TT 039386	H4S-338-USAF 039755	BRG22338C3 423140	415,000	850	AN38 41068

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# SELECTION/DIMENSIONS

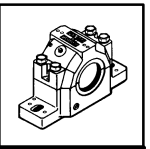


## USAF 300 Direct Mount Pillow Block With Triple-Tect Seal Assembly

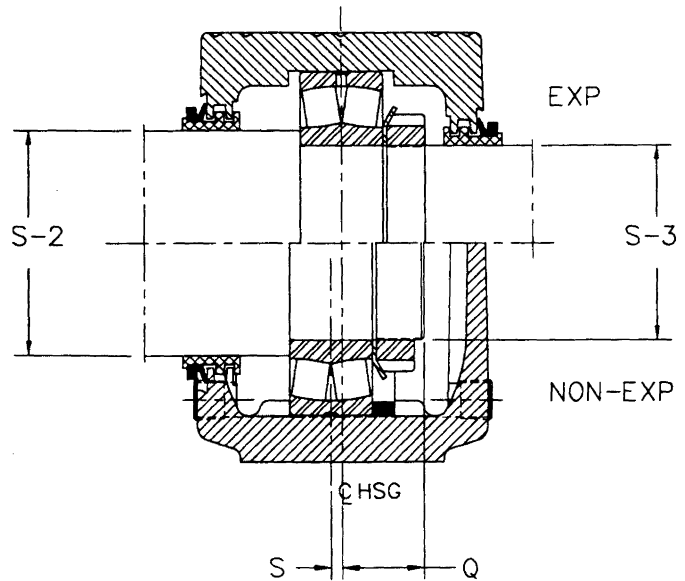
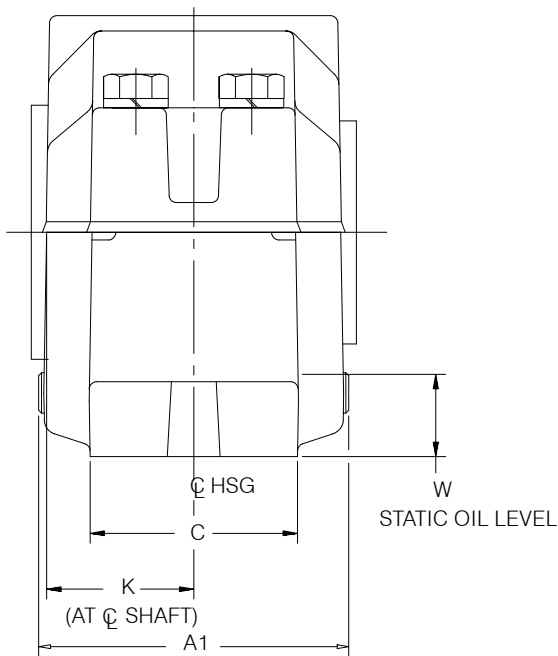
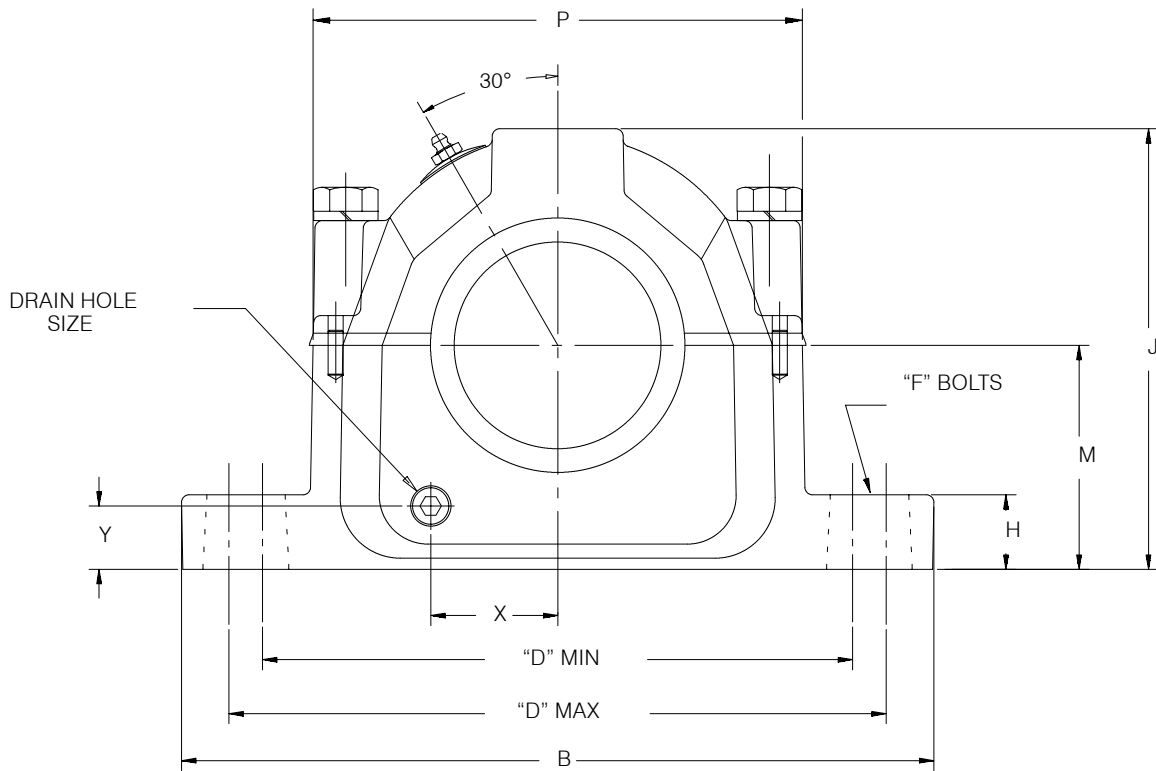
Shaft Dia.		Bearing Bore mm.	Lockwasher Part No.	Triple Tect Part No.		TTDNDN Part No.		LER Part No.		End Cover
S-2	S-3			S2	S3	S-2	S-3	S2	S3	
4-1/2	3-13/16	100	W20 419158	54TT408 043555	50TT313 046407	---	---	54LER408 042527	50LER313 045939	EC50 040709
4-7/8	4-3/16	110	W22 419160	56TT414 046408	52TT403 043553	56TTDN414 039297	52TTDN403 039863	56LER414 042098	52LER403 042525	EC52 040710
5-5/16	4-9/16	120	W24 419162	58TT510 046411	54TT409 046409	---	---	58LER510 042248	54LER409 042943	EC54 040711
5-7/8	4-15/16	130	W26 419164	62TT514 046410	56TT415 043556	---	---	62LER514 042085	56LER415 042528	EC56 040712
6-1/4	5-5/16	140	W28 419166	66TT604 046412	58TT505 046411	---	---	66LER604 042249	58LER505 042248	EC58 040713
6-5/8	5-3/4	150	W30 419168	70TT610 046414	62TT512 046413	---	---	70LER610 045951	62LER512 045949	---
7	6-1/16	160	W32 419170	72TT700 043565	64TT601 046415	---	---	72LER700 042538	64LER601 042953	EC64 040681
7-7/16	6-7/16	170	W34 419172	76TT707 046416	68TT607 043562	---	---	76LER707 042049	68LER607 042535	EC68 040682
8-3/8	7-1/4	190	W38 419176	80TT806 046420	74TT704 046419	---	---	80LER806 042031	74LER704 042032	---

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# SELECTION/DIMENSIONS

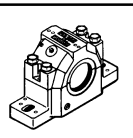


## USAF 300 Housing Dimensions — Inch



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# SELECTION/DIMENSIONS



## USAF 300 Housing Dimensions — Inch

USAF 300 HOUSING DIMENSIONS — INCH												
S-2 SHAFT SIZE	S-3 SHAFT SIZE	HOUSING	A1s	B	C	D				E	F	
						2-BOLT		4-BOLT			BOLT DIA.	
						MIN	MAX	MIN	MAX		2-BOLT	4-BOLT
1-15/16	1-7/16	308	4-1/16	8-1/4	2-11/32	6-1/2	7	—	—	—	1/2	—
2-1/8	1-11/16	309	4-1/4	9-5/8	2-3/4	7-3/8	8-1/4	—	—	—	5/8	—
2-3/8	1-7/8	310	4-45/64	10-5/8	2-3/4	7-3/4	9	—	—	—	5/8	—
2-9/16	2-1/16	311	4-41/64	11	3-1/8	8-1/8	9-1/2	8-1/8	9-1/2	1-7/8	5/8	1/2
2-7/8	2-1/4	312	5-13/64	11-1/8	3-1/8	8-5/8	9-5/8	8-5/8	9-5/8	1-7/8	5/8	1/2
3-1/16	2-7/16	313	5-7/16	12-19/32	3-1/2	9-5/8	11	9-5/8	11	2-1/8	3/4	5/8
3-1/4	2-5/8	314	5-25/64	12-19/32	3-1/2	9-7/8	11	9-7/8	11	2-1/8	3/4	5/8
3-7/16	2-13/16	315	6-5/32	13-5/8	3-7/8	10-1/4	11-3/4	10-3/8	11-5/8	2-1/8	3/4	5/8
3-5/8	3	316	6-3/8	14-11/64	3-7/8	10-7/8	12-3/8	10-5/8	12-1/2	2-1/8	3/4	5/8
3-15/16	3-3/16	317	6-25/32	15-23/64	4-11/32	11-5/8	13-1/8	11-5/8	13-1/8	2-3/8	7/8	3/4
4-1/2	3-13/16	320	8-3/64	16-1/2	4-23/32	—	—	13-1/4	14-1/2	2-3/4	—	3/4
4-7/8	4-3/16	322	8-17/64	18-3/8	5-1/8	—	—	14-1/2	16	3-1/4	—	7/8
5-5/16	4-9/16	324	9-23/64	20-7/8	6-1/4	—	—	16-3/4	18-1/4	3-3/4	—	1
5-7/8	4-15/16	326	9-59/64	21-21/32	6-1/4	—	—	17-3/8	19-1/4	3-3/4	—	1
6-1/4	5-5/16	328	9-29/32	24-3/4	6-3/4	—	—	19-3/8	21-5/8	4-1/4	—	1
6-5/8	5-3/4	330	10-13/32	26-3/4	7-1/8	—	—	20-7/8	23-5/8	4-5/8	—	1
7	6-1/16	332	10-13/16	28	7-1/2	—	—	21-5/8	24-3/8	4-1/2	—	1-1/4
7-7/16	6-7/16	334	11-17/32	28-3/4	8	—	—	22-1/2	25	5	—	1-1/4
8-3/8	7-1/4	338	12-19/64	32-3/4	8-7/8	—	—	24-3/4	27-7/8	5-1/4	—	1-1/2

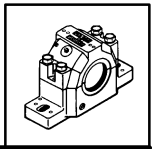
S-2 SHAFT SIZE	S-3 SHAFT SIZE	HOUSING	H	J	K	M	P	Q ★	S ●	W STATIC OIL LEVEL	X	Y	DRAIN HOLE SIZE
1-15/16	1-7/16	308	1-1/32	4-37/64	1-7/8	2-1/2	5-1/8	1-11/64	1/8	1-3/16	1-1/4	13/16	1/8-27NPSI
2-1/8	1-11/16	309	1-1/32	5-1/4	1-31/32	2-3/4	5-25/32	1-15/64	1/8	1-9/32	1-15/16	53/64	1/8-27NPSI
2-3/8	1-7/8	310	1-13/32	5-23/32	2-13/64	3	6-1/8	1-3/8	7/32	1-3/8	1-17/32	63/64	1/8-27NPSI
2-9/16	2-1/16	311	1-1/32	5-15/16	2-5/32	3	6-1/2	1-27/64	1/8	1-7/16	1-21/32	25/32	1/8-27NPSI
2-7/8	2-1/4	312	1-1/4	6-7/16	2-5/16	3-1/4	7-1/16	1-33/64	1/8	1-5/16	1-25/32	7/8	1/4-18NPSF
3-1/16	2-7/16	313	1-1/16	6-3/4	2-27/64	3-1/2	7-15/16	1-37/64	3/16	1-13/32	1-31/32	61/64	1/4-18NPSF
3-1/4	2-5/8	314	1-1/4	7-3/8	2-15/32	3-3/4	8-3/16	1-41/64	3/16	1-15/32	2-1/8	1-1/16	3/8-18NPSF
3-7/16	2-13/16	315	1-7/16	7-3/4	2-27/32	4	8-21/32	1-49/64	3/16	1-19/32	2-1/4	1-1/8	3/8-18NPSF
3-5/8	3	316	1-7/32	8-1/4	2-61/64	4-1/4	9-1/32	1-53/64	3/16	1-11/16	2-3/8	1-11/64	3/8-18NPSF
3-15/16	3-3/16	317	1-21/32	8-3/4	3-5/32	4-1/2	9-25/32	1-29/32	3/16	1-3/4	2-5/8	1-1/4	3/8-18NPSF
4-1/2	3-13/16	320	1-1/2	10-1/4	3-41/64	5-1/4	11-1/4	2-19/64	3/16	2-1/32	3-3/16	1-3/8	1/2-14NPSF
4-7/8	4-3/16	322	2-1/16	11-17/32	3-3/4	6	12-13/32	2-1/2	3/16	2-13/32	3-5/16	1-5/8	1/2-14NPSF
5-5/16	4-9/16	324	2-3/8	12-1/2	4-21/64	6-5/16	14-5/16	2-41/64	3/16	2-3/8	3-19/32	1-21/64	1/2-14NPSF
5-7/8	4-15/16	326	2-11/32	13-5/16	4-5/8	6-11/16	14-29/32	2-27/32	3/16	2-7/16	4-1/32	1-21/64	1/2-14NPSF
6-1/4	5-5/16	328	2-7/8	14-9/16	4-5/8	7-1/16	16-13/16	3-3/32	3/16	2-9/16	4-5/32	1-21/64	1/2-14NPSF
6-5/8	5-3/4	330	3	15-1/8	4-7/8	7-1/2	17-3/16	3-17/64	3/16	2-5/8	4-7/32	1-5/8	1/2-14NPSF
7	6-1/16	332	3-1/8	15-13/16	5-1/16	7-7/8	18	3-7/16	3/16	2-11/16	4-3/4	1-39/64	1/2-14NPSF
7-7/16	6-7/16	334	3-3/8	16-5/8	5-7/16	8-1/4	19	3-19/32	3/16	2-3/4	4-29/32	1-17/32	1/2-14NPSF
8-3/8	7-1/4	338	3-3/4	18-7/8	5-13/16	9-1/2	21-1/4	3-57/64	3/16	3-3/8	5-7/16	2-1/32	1/2-14NPSF

- ▲ Housing width with drain plugs. Length thru bore page B9-102.
- ★ Distance shaft should extend beyond housing centerline if pillow block is closed end style
- Non-expansion bearing offset from centerline. For expansion bearing S = 0.

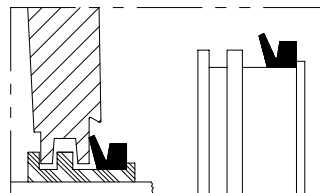
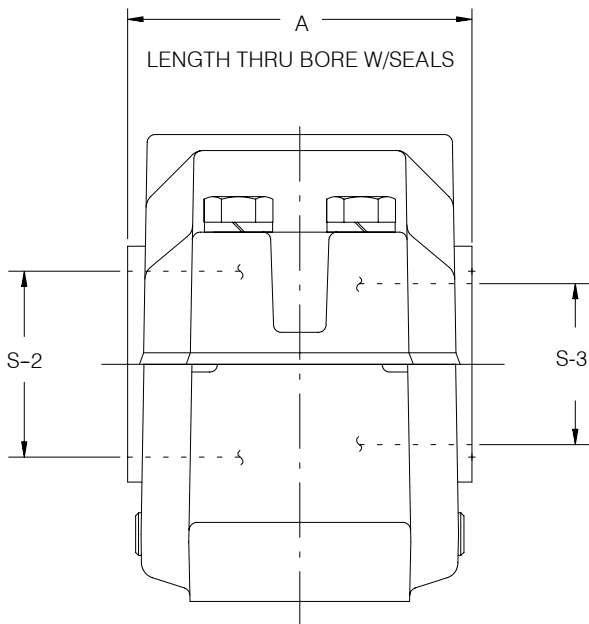
SPECIFICATIONS PAGE B9-7	HOW TO ORDER PAGE B9-8	NOMENCLATURE (INCH) PAGE B9-9	SELECTION/DIMENSIONS PAGE B9-15
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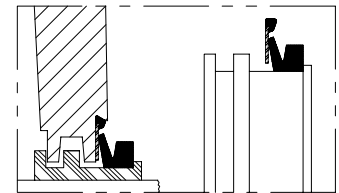
# SELECTION/DIMENSIONS



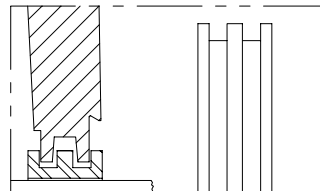
## USAF 300 Pillow Block Seals



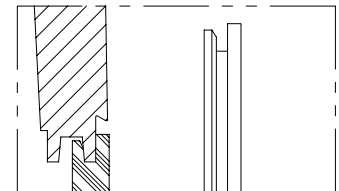
**TRIPLE-TECT Seal**  
General purpose seal for wet or dirty environments



**DROP-IN TRIPLE-TECT Seal**  
DODGE exclusive. Popular TRIPLE-TECT features simplify installation.



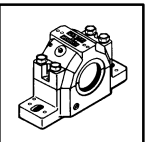
**LER Seal**  
High speed seal for relatively clean environments



**END COVER Seal**  
Allows use of open shaft housing as closed-end

<p>SPECIFICATIONS PAGE B9-7</p>	<p>HOW TO ORDER PAGE B9-8</p>	<p>NOMENCLATURE (INCH) PAGE B9-9</p>	<p>SELECTION/DIMENSIONS PAGE B9-15</p>
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# SELECTION/DIMENSIONS

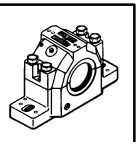


## USAF 300 Pillow Block Seals

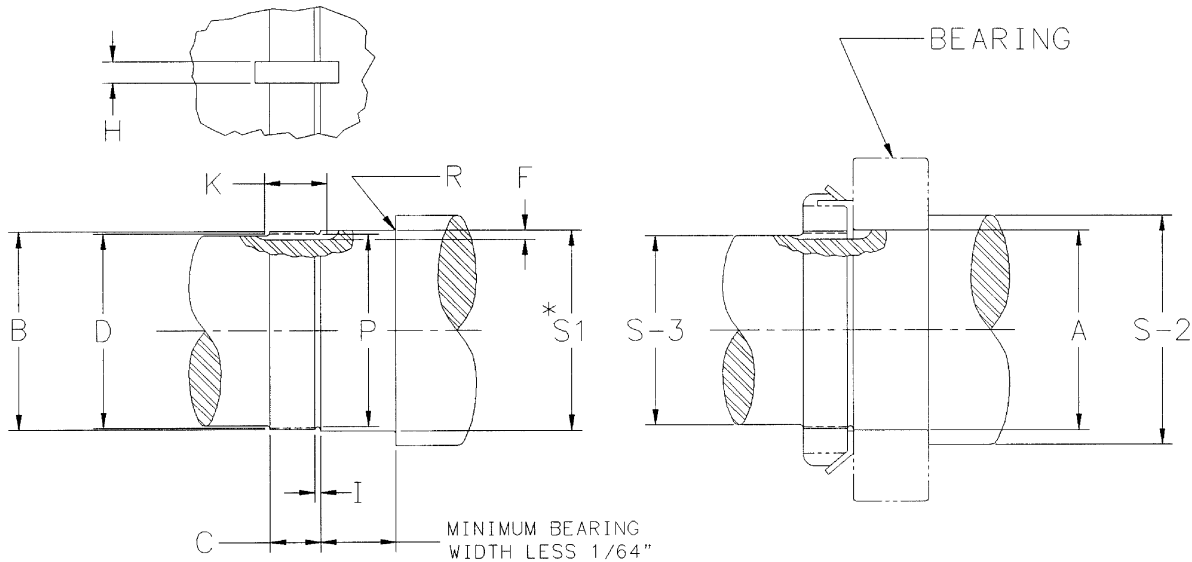
S-2 SHAFT SIZE (INCH)	S-3 SHAFT SIZE (INCH)	HOUSING	SEAL GROUP		PART NUMBERS							A		
					TRIPLE-TECT (TT)		TRIPLE-TECT DROP-IN (TTDN)		METAL LABYRINTH (LER)		END COVER	TT (INCH)	TTDN (INCH)	LER (INCH)
					S-2	S-3	S-2	S-3	S-2	S-3	S-3			
1-15/16	1-7/16	308	12	08	043540	043578	—	—	042512	042193	040700	4-3/16	—	3-41/64
2-1/8	1-11/16	309	14	10	046464	043579	—	—	046472	042199	040701	4-23/64	—	3-53/64
2-3/8	1-7/8	310	18	12	046166	046167	—	—	046175	046176	040702	4-13/16	—	4-9/32
2-9/16	2-1/16	311	22	14	046466	046463	035748	035745	046474	046471	040703	4-51/64	4-51/64	4-3/16
2-7/8	2-1/4	312	26	14	046468	046465	035750	035747	046476	046473	040703	5-1/64	5-1/64	4-27/64
3-1/16	2-7/16	313	28	22	046469	046168	035751	035744	046477	046177	—	5-11/32	5-11/32	4-11/16
3-1/4	2-5/8	314	32	22	046470	046467	035752	035749	046478	046475	—	5-7/16	5-7/16	4-51/64
3-7/16	2-13/16	315	38	24	046401	046400	039290	039289	045928	045927	040705	6-13/64	6-13/64	5-19/32
3-5/8	3	316	38	28	046402	043547	039291	039857	045931	042519	040706	6-27/64	6-27/64	5-13/16
3-15/16	3-3/16	317	42	32	046404	046403	039515	039292	042089	042088	—	6-25/64	6-25/32	6-11/64
4-1/2	3-13/16	320	54	50	043555	046407	—	—	042527	045939	040709	7-55/64	—	7-21/64
4-7/8	4-3/16	322	56	52	046408	043553	039297	039863	042098	042525	040710	8-3/32	8-3/32	7-1/2
5-5/16	4-9/16	324	58	54	046411	046409	—	—	042248	045943	040711	9-9/32	—	8-11/16
5-7/8	4-15/16	326	62	56	046410	043556	—	—	042085	042528	040712	9-27/32	—	9-13/64
6-1/4	5-5/16	328	66	58	046412	046411	—	—	042249	042248	040713	9-25/32	—	9-1/8
6-5/8	5-3/4	330	70	62	046414	046413	—	—	045951	045949	—	10-25/64	—	9-45/64
7	6-1/16	332	72	64	043565	046415	—	—	042538	045953	040681	10-11/16	—	9-63/64
7-7/16	6-7/16	334	76	68	046416	043562	—	—	042049	042535	040682	11-7/16	—	10-47/64
8-3/8	7-1/4	338	80	74	046420	046419	—	—	042031	042032	—	12-7/16	—	11-45/64

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# SELECTION/DIMENSIONS



## USAF 22300 Bearing Shaft Details



NOMINAL BEARING BORE DIA. (mm)	SHAFT BEARING SEAT DIAMETERS (INCH)					
	NORMAL LOAD			HIGH LOAD		
	* S-1		MEAN FIT	* S-1		MEAN FIT
	MAX	MIN		MAX	MIN	
40	1.5758	1.5752	.0009T	1.5761	1.5655	.0012T
45	1.7727	1.7721		1.7730	1.7724	
50	1.9697	1.9689	.0011T	1.9700	1.9693	.0014T
55	2.1666	2.1658		2.1669	2.1662	
60	2.3634	2.3626		2.3637	2.3630	
65	2.5603	2.5595		2.5606	2.5599	
70	2.7571	2.7563		2.7574	2.7567	
75	2.9540	2.9532	.0012T	2.9543	2.9536	.0015T
80	3.1508	3.1501		3.1511	3.1504	
85	3.3479	3.3470	.0014T	3.3484	3.3475	.0019T
100	3.9384	3.9375		3.9389	3.9380	
110	4.3321	4.3312		4.3326	4.3317	
120	4.7258	4.7249	.0016T	4.7263	4.7254	.0022T
130	5.1197	5.1187		5.1203	5.1193	
140	5.5134	5.5124		5.5140	5.5130	
150	5.9071	5.9061		5.9077	5.9067	
160	6.3008	6.2998		6.3014	6.3004	
170	6.6945	6.6935	.0019T	6.6951	6.6941	.0026T
190	7.4821	7.4809		7.4829	7.4817	

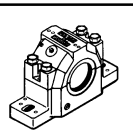
Normal Load  
P/C = 0.10 TO 0.18

High Load  
P/C > 0.18

Where P= Equivalent dynamic load on the bearing (lbs.)  
C= Basic dynamic load rating of bearing (lbs.)

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# SELECTION/DIMENSIONS



## USAF 22300 Bearing Shaft Details

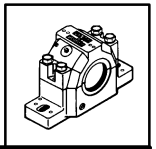
USAF 300 SHAFT DIMENSIONS — INCH								
HOUSING	LOCKNUT & WASHER KIT PART NO.	A BRG BORE	S-2	S-3	KEYWAY			R MAX RADIUS
					F DEPTH +1/64 -0	H WIDTH +1/64 -0	K FULL DEPTH LENGTH	
308	046751	1.5748 (40 mm)	1-15/16	1-7/16	3/32	5/16	21/32	.059
309	046752	1.7717 (45 mm)	2-1/8	1-11/16	3/32	5/16	11/16	.059
310	046753	1.9685 (50 mm)	2-3/8	1-7/8	3/32	5/16	3/4	.079
311	046754	2.1654 (55 mm)	2-9/16	2-1/16	1/8	5/16	3/4	.079
312	046772	2.3622 (60 mm)	2-7/8	2-1/4	1/8	5/16	25/32	.079
313	046755	2.5591 (65 mm)	3-1/16	2-7/16	1/8	5/16	13/16	.079
314	046773	2.7559 (70 mm)	3-1/4	2-5/8	1/8	5/16	29/32	.079
315	046756	2.9528 (75 mm)	3-7/16	2-13/16	1/8	5/16	15/16	.079
316	046757	3.1496 (80 mm)	3-5/8	3	1/8	3/8	15/16	.079
317	046758	3.3465 (85 mm)	3-15/16	3-3/16	1/8	3/8	31/32	.098
320	046760	3.9370 (100 mm)	4-1/2	3-13/16	5/32	3/8	1-3/16	.098
322	046761	4.3307 (110 mm)	4-7/8	4-3/16	3/16	3/8	1-7/32	.098
324	046762	4.7244 (120 mm)	5-5/16	4-9/16	3/16	3/8	1-1/4	.098
326	046763	5.1181 (130 mm)	5-7/8	4-15/16	3/16	1/2	1-5/16	.118
328	046764	5.5118 (140 mm)	6-1/4	5-5/16	3/16	5/8	1-3/8	.118
330	046765	5.9055 (150 mm)	6-5/8	5-3/4	7/32	5/8	1-1/2	.118
332	046766	6.2992 (160 mm)	7	6-1/16	15/64	5/8	1-9/16	.118
334	046767	6.6929 (170 mm)	7-7/16	6-7/16	15/64	3/4	1-19/32	.118
338	046769	7.4803 (190 mm)	8-3/8	7-1/4	15/64	3/4	1-21/32	.157

USAF 300 SHAFT DIMENSIONS — INCH								
HOUSING	THREADS PER INCH	B THREAD MAJOR DIA		D THREAD PITCH DIA		C THREAD LENGTH +1/64 -0	I THREAD RELIEF +1/64 -0	P† THREAD RELIEF DIA.
		MAX	MIN	MAX	MIN			
		308	18	1.5630	1.5548			
309	18	1.7670	1.7588	1.7309	1.7204	17/32	1/8	1.6832
310	18	1.9670	1.9588	1.9309	1.9264	19/32	1/8	1.8832
311	18	2.1570	2.1488	2.1209	2.1159	19/32	1/8	2.0732
312	18	2.3600	2.3518	2.3239	2.3188	5/8	1/8	2.2762
313	18	2.5480	2.5398	2.5119	2.5068	21/32	1/8	2.4642
314	18	2.7510	2.7428	2.7149	2.7098	21/32	1/8	2.6672
315	12	2.9330	2.9218	2.8789	2.8735	11/16	5/32	2.7995
316	12	3.1370	3.1258	3.0829	3.0770	11/16	5/32	3.0035
317	12	3.3400	3.3288	3.2859	3.2800	23/32	5/32	3.2065
320	12	3.9180	3.9068	3.8639	3.8565	7/8	5/32	3.7845
322	12	4.325	4.3138	4.2709	4.2626	29/32	5/32	4.1915
324	12	4.716	4.7048	4.6619	4.6536	15/16	5/32	4.5825
326	12	5.106	5.0948	5.0519	5.0436	1	5/32	4.9725
328	12	5.497	5.4858	5.4429	5.4346	1-1/16	5/32	5.3635
330	12	5.888	5.8768	5.8339	5.8256	1-1/8	5/32	5.7545
332	8	6.284	6.2688	6.2028	6.1937	1-3/16	1/4	6.0993
334	8	6.659	6.6438	6.5778	6.5687	1-7/32	1/4	6.4743
338	8	7.472	7.4568	7.3908	7.3817	1-9/32	1/4	7.2873

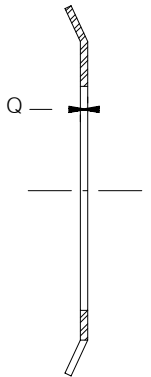
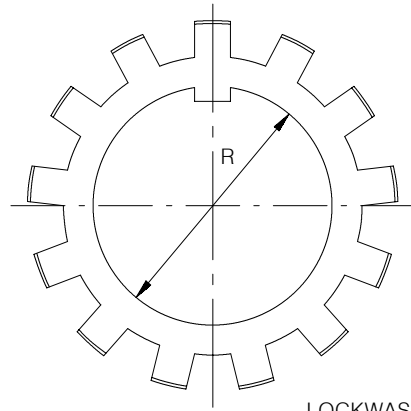
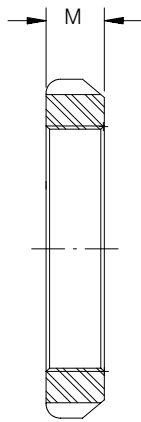
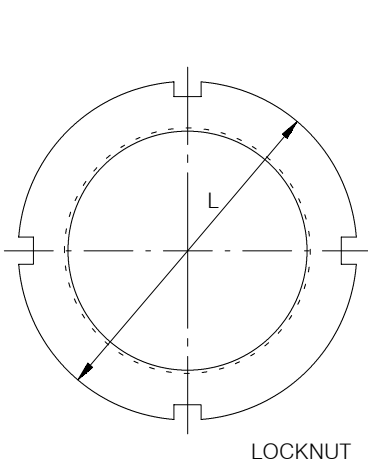
† Tolerance ±.005 through 2.6672 dia.; ±.010 for larger sizes

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# SELECTION/DIMENSIONS

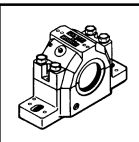


## USAF 22200 Bearing Locknuts & Washers



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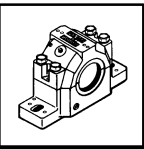
# SELECTION/DIMENSIONS



## USAF 22200 Bearing Locknuts & Washers

HOUSING	LOCKNUT		LOCKWASHER		L (INCH)	M (INCH)	R (INCH)	Q (INCH)
	DESCRIP.	PART NO.	DESCRIP.	PART NO.				
308	N08	407305	W08	419151	2.25	.44	1.583	.048
309	N09	419187	W09	419180	2.53	.44	1.792	.048
310	N10	419188	W10	419181	2.69	.50	1.992	.048
311	N11	419184	W11	419182	2.97	.50	2.182	.053
312	N12	407302	W12	419008	3.16	.53	2.400	.053
313	N13	419185	W13	419183	3.38	.56	2.588	.053
314	N14	407306	W14	419153	3.62	.56	2.791	.053
315	AN15	460901	W15	419150	3.88	.59	2.988	.072
316	AN16	460902	W16	419152	4.16	.59	3.192	.072
317	AN17	460903	W17	419154	4.41	.62	3.410	.072
320	AN20	460905	W20	419158	5.19	.75	4.003	.094
322	AN22	460906	W22	419160	5.72	.78	4.410	.125
324	AN24	041071	W24	419162	6.12	.81	4.816	.125
326	AN26	041064	W26	419164	6.75	.88	5.209	.125
328	AN28	041065	W28	419166	7.09	.94	5.600	.125
330	AN30	041072	W30	419168	7.69	.97	6.001	.156
332	AN32	041066	W32	419170	8.06	1.03	6.407	.156
334	AN34	041067	W34	419172	8.66	1.06	6.782	.156
338	AN38	041068	W38	419176	9.47	1.12	7.595	.156

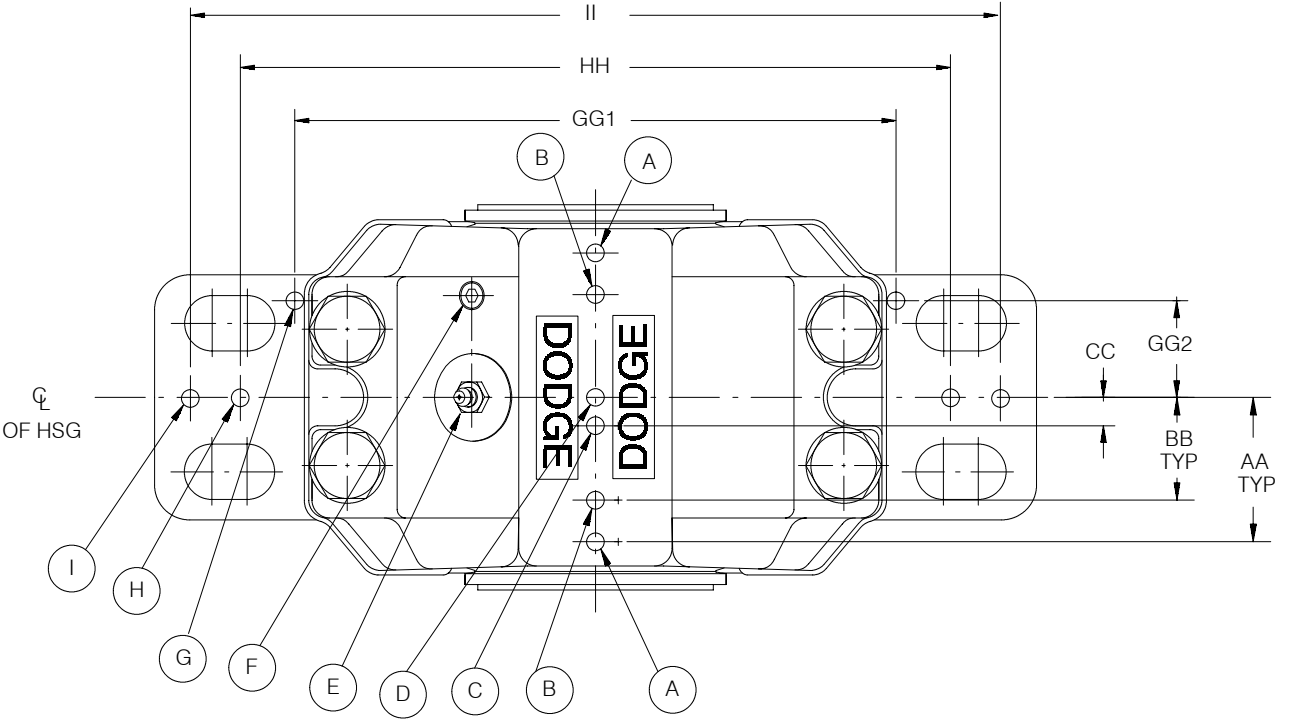
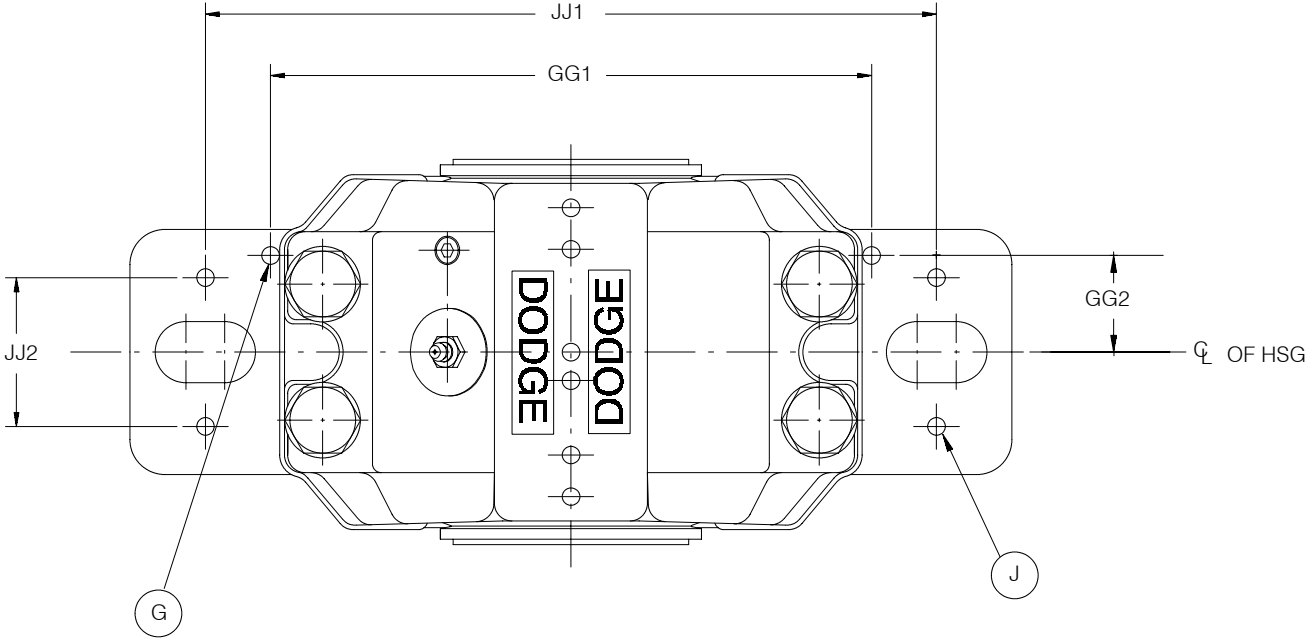
SPECIFICATIONS PAGE B9-7	HOW TO ORDER PAGE B9-8	NOMENCLATURE (INCH) PAGE B9-9	SELECTION/DIMENSIONS PAGE B9-15
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# SELECTION/DIMENSIONS

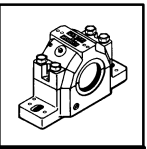
## USAF Pillow Block – 500 & 200

### DOWEL PIN, LUBRICATION & MOUNTING HOLE POSITIONS



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# SELECTION/DIMENSIONS



## USAF Pillow Block – 500 & 200

### DOWEL PIN, LUBRICATION & MOUNTING HOLE POSITIONS

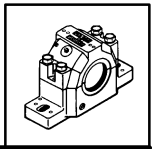
ITEM	DESCRIPTION
A	OPTIONAL SEAL GREASE LOCATION
B	OPTIONAL LOCATION FOR VENT, VIBRATION PICKUP AND/OR GREASE LOCATION FOR NON W33 GROOVED BEARING
C	POSITION FOR THERMOCOUPLE LOCATION
D	POSITION FOR LUBRICATION OF BEARING WITH W33 GROOVE
E	LUBRICATION PORT FOR W33 GROOVE GROOVE BEARING DRILLED STANDARD ON PILLOW BLOCKS
F	PER DRILLED AND TAP LOCATION FOR VENT OR SIDE LUBRICATION FOR BEARING WITHOUT W33 GROOVE
G	DOWEL PIN LOCATION FOR METRIC PLUMMER BLOCKS
H	DRILLING LOCATION FOR TWO BOLT MOUNTING OR OPTIONAL DOWEL PIN LOCATION
I	OPTIONAL LOCATION FOR DOWEL PIN LOCATION
J	DRILLING LOCATION FOR FOUR BOLT MOUNTING OR OPTIONAL DOWEL PIN LOCATION

USAF HOUSING	AA	BB	CC	GG1	GG2	G MAX DIA	HH	H		II	JJ1	JJ2	J	
								HOLE SIZE	BOLT SIZE				HOLE SIZE	BOLT SIZE
509	1-29/64	27/32	1/4	5-5/16	29/32	15/64	—	—	—	—	65/16	1-11/32	7/16	3/8
510	1-17/32	57/64	17/64	5-5/16	29/32	15/64	—	—	—	—	65/16	1-11/32	7/16	3/8
511	1-21/32	1	9/32	6-11/16	1-1/16	5/16	—	—	—	—	7-7/8	1-9/16	9/16	1/2
513	1-27/32	1-9/32	11/32	7-1/2	1-1/4	5/16	9-1/16	11/16	5/8	10-1/4	8-21/32	1-7/8	9/16	1/2
515/215	1-7/8	1-7/32	23/64	7-1/2	1-1/4	5/16	9-1/16	11/16	5/8	10-1/4	8-21/32	1-7/8	9/16	1/2
516/216	2-1/32	1-3/8	5/16	8-19/32	1-3/8	5/16	10-1/4	13/16	3/4	11-19/32	9-15/16	2-1/16	11/16	5/8
517/217	2-1/16	1-15/32	13/32	8-19/32	1-3/8	5/16	10-1/4	13/16	3/4	11-19/32	9-15/16	2-1/16	11/16	5/8
518/218	2-3/8	1-1/2	7/16	9-7/16	1-29/64	5/16	11-13/32	13/16	3/4	12-5/8	11-1/32	2-9/32	11/16	5/8
520/220	2-11/16	1-23/32	17/32	10-1/4	1-39/64	5/16	12-19/32	15/16	7/8	14-23/64	11-13/16	2-19/32	13/16	3/4
522/222	2-13/16	1-15/16	19/32	11-1/32	1-25/32	15/32	13-25/32	15/16	7/8	15-1/2	12-19/32	2-29/32	13/16	3/4
524/224	3-1/8	1-29/32	11/16	11-27/64	1-25/32	15/32	13-7/8	15/16	7/8	15-7/8	13	2-29/32	13/16	3/4
526/226	3-1/4	2-3/32	3/4	12-25/32	2-3/64	15/32	14-31/32	1-1/16	1	17-3/8	14-9/16	3-5/32	15/16	7/8
528/228	3-31/64	2-17/32	3/4	13-19/32	2-5/32	15/32	16-17/32	1-5/16	1-1/4	18-11/16	153/4	3-5/8	1-1/16	1
530/230	3-27/32	2-17/32	13/16	14-3/4	2-3/8	15/32	17-23/32	1-5/16	1-1/4	191/2	16-15/16	3-15/16	1-1/16	1
532/232	4-3/32	2-9/16	29/32	15-9/16	2-23/64	15/32	18-1/2	1-5/16	1-1/4	20-9/32	17-23/32	3-15/16	1-1/16	1
534/234	4-1/8	3	1	—	—	—	20-1/2	1-9/16	1-1/2	23-3/8	—	—	—	—
536/236	4-5/16	3	1	—	—	—	22-1/4	1-9/16	1-1/2	25-1/4	—	—	—	—
538/238	4-1/2	3-1/8	1-1/8	—	—	—	23	1-9/16	1-1/2	26-5/8	—	—	—	—
540/240	4-55/64	3-7/32	1-1/8	—	—	—	23-3/4	1-9/16	1-1/2	27-1/4	—	—	—	—
544/244	5-13/64	3-5/8	1-3/16	—	—	—	26-5/6	1-13/16	1-3/4	30-3/4	—	—	—	—
048	4-55/64	3-7/32	1-1/8	—	—	—	23-3/4	1-9/16	1-1/2	27-1/4	—	—	—	—
052	5-13/64	3-5/8	1-3/16	—	—	—	26-5/6	1-13/16	1-3/4	30-3/4	—	—	—	—
056	5-43/64	3-3/4	1-13/64	—	—	—	27-7/8	2-1/6	2	32-1/4	—	—	—	—

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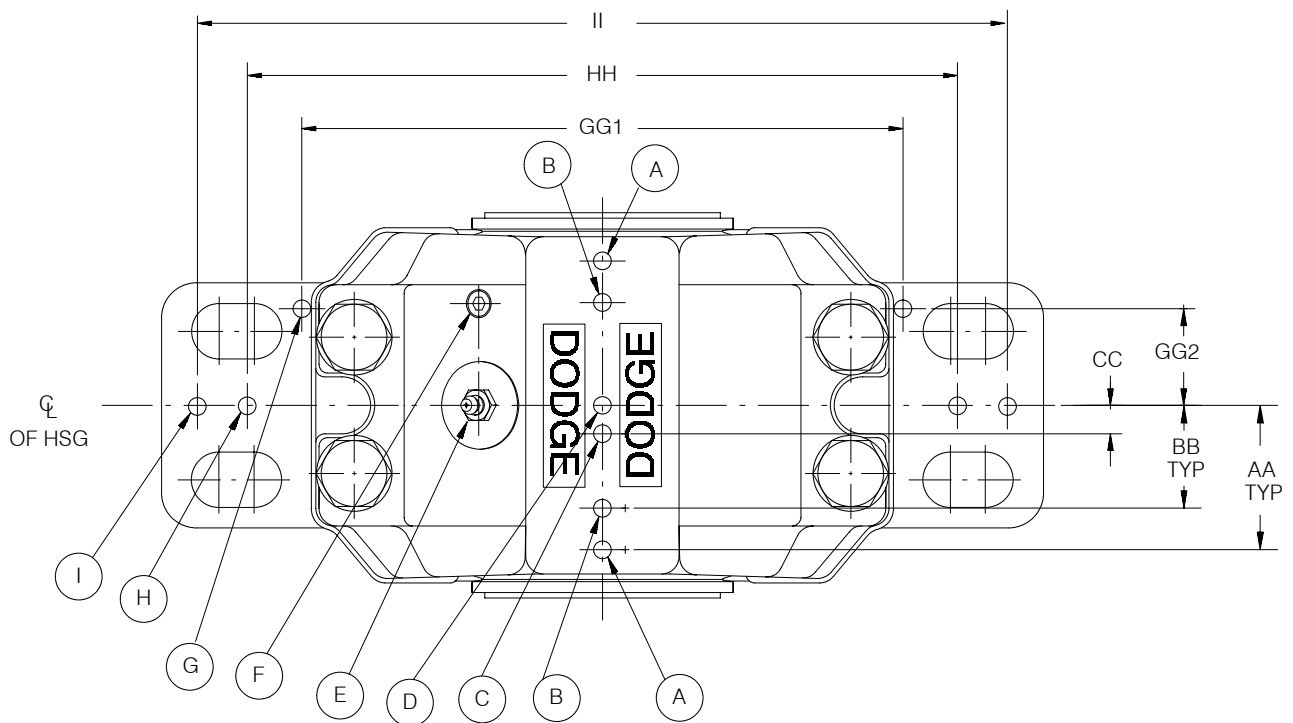
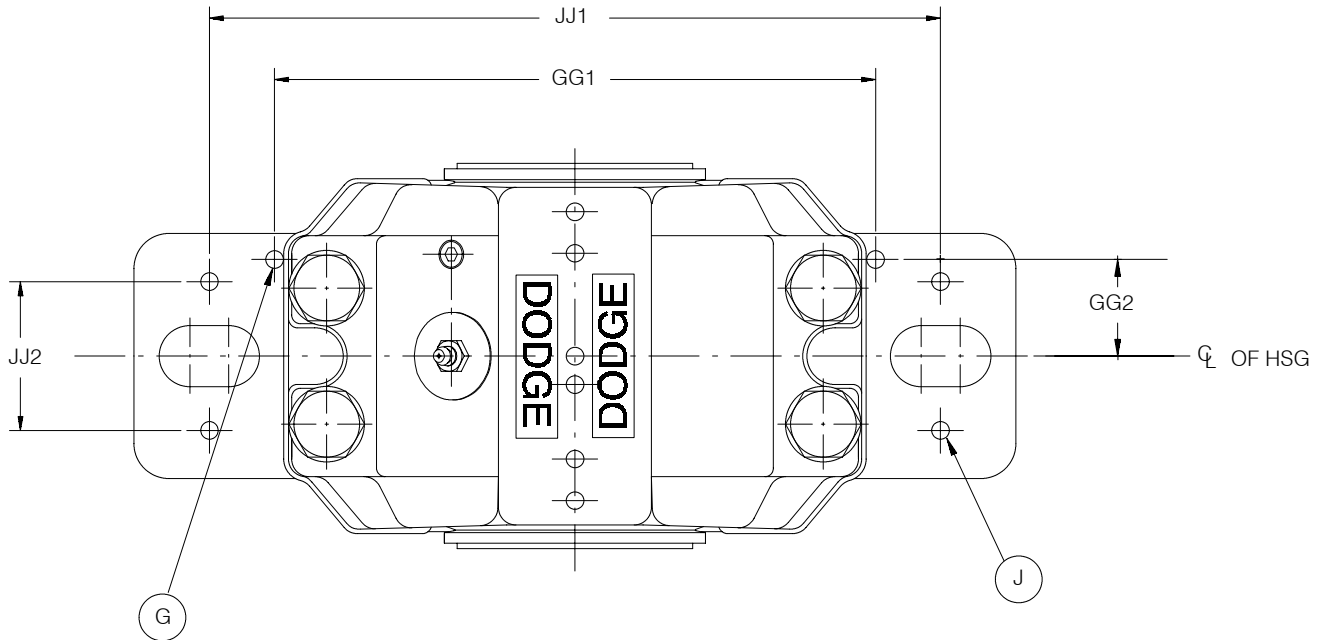


# SELECTION/DIMENSIONS



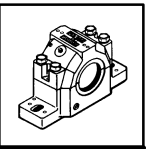
## USAF Pillow Block – 600 & 300

### DOWEL PIN, LUBRICATION & MOUNTING HOLE POSITIONS



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# SELECTION/DIMENSIONS



## USAF Pillow Block – 600 & 300

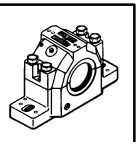
### DOWEL PIN, LUBRICATION & MOUNTING HOLE POSITIONS

ITEM	DESCRIPTION
A	OPTIONAL SEAL GREASE LOCATION
B	OPTIONAL LOCATION FOR VENT, VIBRATION PICKUP AND/OR GREASE LOCATION FOR NON W33 GROOVED BEARING
C	POSITION FOR THERMOCOUPLE LOCATION
D	POSITION FOR LUBRICATION OF BEARING WITH W33 GROOVE
E	LUBRICATION PORT FOR W33 GROOVE GROOVE BEARING DRILLED STANDARD ON PILLOW BLOCKS
F	PER DRILLED AND TAP LOCATION FOR VENT OR SIDE LUBRICATION FOR BEARING WITHOUT W33 GROOVE
G	DOWEL PIN LOCATION FOR METRIC PLUMMER BLOCKS
H	DRILLING LOCATION FOR TWO BOLT MOUNTING OR OPTIONAL DOWEL PIN LOCATION
I	OPTIONAL LOCATION FOR DOWEL PIN LOCATION
J	DRILLING LOCATION FOR FOUR BOLT MOUNTING OR OPTIONAL DOWEL PIN LOCATION

USAF HOUSING	AA	BB	CC	GG1	GG2	G MAX DIA	HH	H		II	JJ1	JJ2	J	
								HOLE SIZE	BOLT SIZE				HOLE SIZE	BOLT SIZE
308	1-17/32	57/64	17/64	5-5/16	29/32	15/64	—	—	—	—	6-5/16	1-11/32	7/16	3/8
609/309	1-21/32	1	9/32	6-11/16	1-1/16	5/16	—	—	—	—	7-7/8	1-9/16	9/16	1/2
610/310	1-27/32	1	11/32	6-49/64	1-1/16	5/16	—	—	—	—	7-7/8	1-9/16	9/16	1/2
611/311	1-27/32	1-9/16	11/32	7-1/2	1-1/4	5/16	9-1/16	11/16	5/8	10-1/4	8-21/32	1-7/8	9/16	1/2
312	1-7/8	1-7/32	23/64	7-1/2	1-1/4	5/16	9-1/16	11/16	5/8	10-1/4	8-21/32	1-7/8	9/16	1/2
613/313	2-1/32	1-3/8	5/16	8-19/32	1-3/8	5/16	10-1/4	13/16	3/4	11-19/32	9-15/16	2-1/16	11/16	5/8
314	2-1/16	1-15/32	13/32	8-19/32	1-3/8	5/16	10-1/4	13/16	3/4	11-19/32	9-15/16	2-1/16	11/16	5/8
615/315	2-3/8	1-1/2	7/16	9-7/16	1-29/64	5/16	11-13/32	13/16	3/4	12-5/8	11-1/32	2-9/32	11/16	5/8
616/316	2-17/32	1-5/8	17/32	9-7/16	1-29/64	5/16	11-13/32	13/16	3/4	13	11-1/32	2-9/32	11/16	5/8
617/317	2-11/16	1-23/32	17/32	10-1/4	1-39/64	5/16	12-19/32	15/16	7/8	14-23/64	11-13/16	2-19/32	13/16	3/4
620/320	3-1/8	1-29/32	11/16	11-27/64	1-25/32	15/32	13-7/8	15/16	7/8	15-7/8	13	2-29/32	13/16	3/4
622/322	3-1/4	2-3/32	3/4	12-25/32	2-3/64	15/32	14-31/32	1-1/16	1	17-3/8	14-9/16	3-5/32	15/16	7/8
624/324	3-27/32	2-17/32	13/16	14-3/4	2-3/8	15/32	17-23/32	1-5/16	1-1/4	19-1/2	16-15/16	3-15/16	1-1/16	1
626/326	4-3/32	2-9/16	29/32	15-9/16	2-23/64	15/32	18-1/2	1-5/16	1-1/4	20-9/32	17-23/32	3-15/16	1-1/16	1
628/328	4-1/8	3	1	—	—	—	20-1/2	1-9/16	1-1/2	23-3/8	—	—	—	—
630/330	4-5/16	3	1	—	—	—	22-1/4	1-9/16	1-1/2	25-1/4	—	—	—	—
632/332	4-1/2	3-1/8	1-1/8	—	—	—	23	1-9/16	1-1/2	26-5/8	—	—	—	—
634/334	4-55/64	3-7/32	1-1/8	—	—	—	23-3/4	1-9/16	1-1/2	27-1/4	—	—	—	—
638/338	5-13/64	3-5/8	1-3/16	—	—	—	26-5/16	1-13/16	1-3/4	30-3/4	—	—	—	—

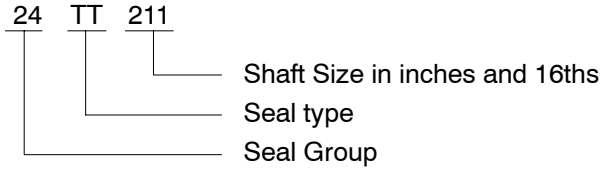
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# SELECTION/DIMENSIONS



## USAF HOUSING VS SEAL GROUP INTERCHANGE CHART

All DODGE seals are identified as follows:

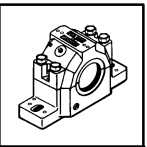


Seal group numbers identify common housing seal grooves found on different series housings. The standard shaft sizes for various housings are shown.

SHAFT SIZE	HOUSING	SEAL* GROUP	SHAFT SIZE	HOUSING	SEAL* GROUP	SHAFT SIZE	HOUSING	SEAL* GROUP	SHAFT SIZE	HOUSING	SEAL* GROUP
1-7/16	509 308 609	08	3-5/8	216 316	38	6-1/4	228 328	66	11-15/16	064L 3164 3264	100
1-11/16	510 309 610	10	3-13/16	220 320	50	6-7/16	334 234 536	68	12		
1-7/8	310		3-15/16	217 317	42	6-1/2	536		12-7/16	068 3168 3268	102
1-15/16	511 308 611	12		522 622	50	6-5/8	230 330	70	12-1/2		
2-1/16	311		4	522 622		6-7/8	236		12-15/16	072L	104
2-1/8	309		4-1/8	218	44	6-15/16	538 638		13	072L	106
2-3/16	513 613	14	4-3/16	524 222 624 322	52	7	232 332 538 638	72	13-7/16	3172	108
2-3/8	310	18	4-7/16	526 626		7-3/16	540		13-1/2	076 3176	110
2-7/16	515 615 313	20 22	4-1/2	220 320 526 626	54	7-1/4	238 338	74	14	080	112
2-1/2	515 615	20	4-9/16	224 324		7-7/16	334 234		15		
2-5/8	314		4-7/8	222 322		7-1/2	544S		15-3/4	084	
2-9/16	311	22	4-15/16	226 326 528 628	56	7-5/8	240				
2-11/16	516 616		5	528 628		7-13/16	236				
2-3/4	516 616	24	5-3/16	530 630		7-15/16	544	78			
2-13/16	215 315		5-5/16	224 228 324 328	58 58	8					
2-7/8	312	26	5-7/16	532 632		8-5/16	244				
2-15/16	517 617		5-1/2	532 632	60	8-3/8	238 338	80			
3	216 316 517 617	28	5-3/4	230 330		8-7/16	048	90			
3-1/16	313		5-7/8	226 326		8-1/2	240	82			
3-3/16	217 317 518	32 34	5-15/16	534 634		8-3/4	048				
3-1/4	314	32	6	534 634	64	8-15/16	3248	90			
3-3/8	218	36	6-1/16	232 332		9					
3-7/16	215 315 520 620	38 46				9-7/16	052 3152 3252	84			
3-1/2	520 620					9-1/2	244				
						9-9/16	056	92			
						9-15/16	10				
						10-7/16	056L 3156 3256	94			
						10-1/2	060 3160 3260	96			
						10-15/16	064	98			
						11					
						11-7/16					
						11-1/2					

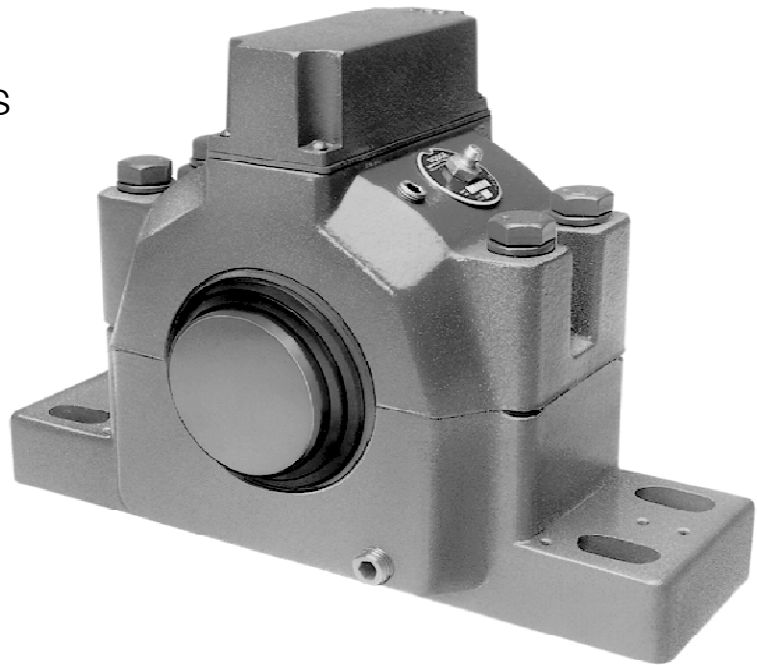
\* Seal groups in 200/300 housing require two seals of different diameters.

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## DODGE USAF Bearing Monitors Are Economical, Factory Installed And Fully Protected For Increased Reliability

- For Use in Non-Hazardous Environments
- Cover Exceeds NEMA 4
- Insulation Gaskets are Automotive Engine Grade Rubberized Cork
- All Monitors UL and CSA Approved

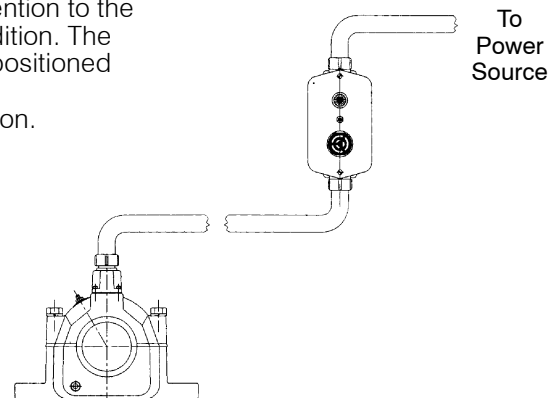


### TEMPERATURE SWITCH

- Normally Open
- AC Voltage up to 250V, 50/60 Hz
- Maximum Load Current 10 Ampere
- Standard Closure Temperature 220°F +/-9°F
- Optional Closure Temperatures 150°F and 260°F
- Contact Resistance < 40mΩ

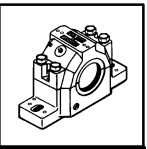
### HOW IT WORKS:

A temperature switch is embedded in a UNIFIED™ SAF Pillow Block. The switch is custom designed for the USAF bearing. When the temperature of the bearing exceeds a predetermined value, the switch closes an alarm circuit. The optional alarm monitor consists of a warning light and high pitched buzzer which draws attention to the overheated condition. The monitor can be positioned based on the user's specification.



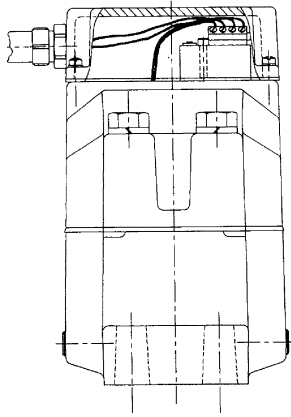
# MODIFICATIONS/ ACCESSORIES

# DODGE®



## THERMOCOUPLE / TRANSMITTER

- Type J Thermocouple
- Temperature Range 0°F- 250°F
- 4-20 Milliamp Output
- Supply Voltage 8.5V to 35V Reverse Polarity Protected
- Accuracy +1 -.5°F
- Pre-adjusted Zero and Span

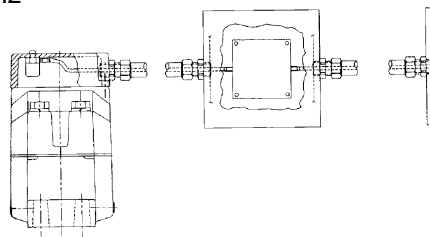


### HOW IT WORKS:

The Iron/Constantan Thermocouple probe is precisely positioned in the housing cap, then secured with epoxy. A transmitter mounted on an insulating pad on top of the pillow block receives the signal from the thermocouple and converts to a 4 to 20 milliamp output. The output terminals allow for connection to a DC power supply for continuous monitoring between 0°F and 250°F. The system is protected by a cast enclosure that exceeds NEMA 4 requirements.

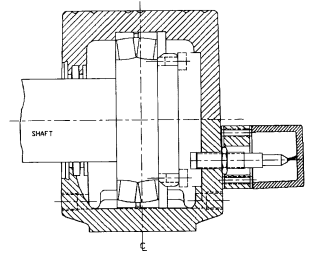
## ACCELEROMETER

- Shock Resistant Piezo Electric Element
- Sensitivity 100 mV1g
- Range +1 - 50g
- Frequency Response +1 - 3dB, .5 - 10,000 Hz
- Temperature Range -65°F - 185°F
- Full Scale Output +/- 5V
- Single Axis Monitor
- Compatible with most Vibration Monitoring Equipment



## SPEED PICKUP

- Maximum Operating Speed - 600rpm
- Operating Temperature -13° to 158°F
- Supply Voltage 40 - 250V AC/DC, 50/60 Hz
- Normally Open Switch
- Stainless Steel Face and Barrel
- Leakage Current 1.7 Milliamp RMS
- Continuous Load Current 5 - 250 Milliamp RMS
- Switching Frequency 20 Hz



### HOW IT WORKS:

Speed pickups provide a means of sensing speed variation by measuring revolutions of the locknut. A specially equipped locknut has 2 metal pins mounted on it. With each revolution, the pins pass by the proximity switch which reads the presence of metal and closes the switch. Each time the switch is closed, an AC pulse is generated. This pulse signal is transmitted to a PLC for continuous monitoring of speed variations.

### HOW IT WORKS:

When powered by a DC power supply of 18 to 28 volts, the accelerometer generates a signal between +5 and -5 volts which is representative of the vibration seen by the sensor. This signal can then be analyzed for any change in the amplitude or frequency to avert any catastrophic failures. The accelerometer is mounted on the inside of a protective cast enclosure.

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