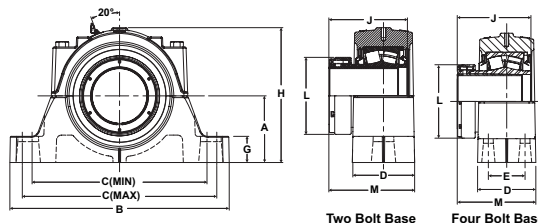




- Rolling Elements:** Spherical Roller
- Housing:** Cast Iron Two and Four Bolt Pillow Block
- Self Alignment:** +/- 2 Degrees
- Lock:** Adapter
- Seal:** Felt
- Optional Seal:** Double Lip Contact
- Temperature:** -20° to 220° F



USRB5500A Series Two and Four-Bolt Base Pillow Blocks - Adapter Mount, SAF Mounting Dimensions

Bore Diameter	Part No.		Basic Dynamic Rating lb/N	Dimensions inch / mm											Unit Wt.			
				A	B	C		D	E	G	H	J	L	M *	Bolt Size		lb/kg	
	Min.	Max.				2 Bolt	4 Bolt								2 Bolt	4 Bolt		
1 7/16 1 1/2	USRB5509A-107 USRB5509A-108	-	20368 90597	2 1/4 57.2	8 1/4 209.6	6 1/4 158.8	7 177.8	2 3/16 55.6	-	13/16 20.6	4 3/8 111.1	3 11/32 84.9	2 47/64 69.5	3 35/64 90.1	1/2	-	10.5 4.77	-
1 15/16 2	USRB5511A-115 USRB5511A-200	-	23520 104617	2 3/4 69.9	9 5/8 244.6	7 3/8 187.3	8 1/4 209.6	2 3/4 69.9	-	15/16 23.8	5 1/32 127.8	3 1/2 88.9	3 11/64 80.6	3 29/32 99.2	5/8	-	16.2 7.36	-
2 7/16 2 1/2	USRB5515A-207 USRB5515A-208	USRBF5515A-207 USRBF5515A-208	44691 198786	3 1/4 82.6	11 1/4 285.8	8 5/8 219.1	9 5/8 244.5	3 1/8 79.4	1 7/8 47.6	1 1/8 28.6	6 1/8 155.6	4 5/16 109.5	3 7/16 87.3	4 23/32 119.9	5/8	1/2	26.5 12.04	26.2 11.92
2 15/16 3	USRB5517A-215 USRB5517A-300	USRBF5517A-215 USRBF5517A-300	47447 211044	3 3/4 95.3	13 330.2	9 7/8 250.8	11 279.4	3 1/2 88.9	2 1/8 54.0	1 1/4 31.8	7 1/8 181.0	4 31/64 113.9	4 25/64 111.5	5 1/32 127.8	3/4	5/8	38.4 17.44	38.0 17.26
3 7/16 3 1/2	USRB5520A-307 USRB5520A-308	USRBF5520A-307 USRBF5520A-308	72640 323103	4 1/2 114.3	15 1/4 387.4	11 5/8 295.3	13 1/8 333.4	4 3/8 111.1	2 3/8 60.3	1 3/4 44.5	9 228.6	5 35/64 140.9	5 15/32 138.9	6 15/64 158.4	7/8	3/4	73.4 33.37	72.4 32.92
3 15/16 4	-	USRB5522A-315 USRB5522A-400	96050 427230	4 15/16 125.4	16 1/2 419.1	12 19/32 319.9	14 1/2 368.3	4 3/4 120.7	2 3/4 69.9	2 50.8	9 7/8 250.8	5 15/16 150.8	5 13/16 147.64	6 41/64 168.7	-	3/4	-	88.5 40.23
4 7/16 4 1/2	-	USRB5526A-407 USRB5526A-408	111537 496117	6 152.4	18 3/8 466.7	14 1/2 368.3	16 406.4	5 1/8 130.2	3 1/4 82.6	2 3/8 60.3	11 9/16 293.7	6 27/64 163.1	6 11/32 161.1	7 3/32 180.2	-	7/8	-	127.4 57.89
4 15/16 5	-	USRB5528A-415 USRB5528A-500	158816 706414	6 152.4	19 11/16 500.1	15 5/8 396.9	17 3/8 441.3	5 7/8 149.2	3 3/8 85.7	2 3/8 60.3	12 304.8	7 1/8 181.0	7 13/64 183.0	7 53/64 198.8	-	1	-	159.3 72.41
5 7/16	-	USRB5532A-507	196682 874842	6 11/16 169.9	22 558.8	17 3/8 441.3	19 1/4 489.0	6 1/4 158.8	3 3/4 95.3	2 5/8 66.7	13 1/2 342.9	7 7/8 200.0	7 47/64 196.5	8 19/32 218.3	-	1	-	214.0 97.27
5 15/16	-	USRB5534A-515	261346 1162467	7 1/16 179.4	24 3/4 628.7	19 3/8 492.1	21 5/8 549.3	6 3/4 171.5	4 1/4 108.0	2 3/4 69.9	14 15/16 379.4	8 11/16 220.7	8 1/2 215.9	9 1/4 235.0	-	1	-	287.0 130.45
6 7/16 6 1/2	-	USRB5536A-607 USRB5536A-608	334229 1486651	7 1/2 190.5	26 3/4 679.5	20 7/8 530.2	23 5/8 600.1	7 1/8 181.0	4 5/8 117.5	3 76.2	15 15/16 404.8	9 45/64 246.5	9 11/16 246.1	10 5/32 258.0	-	1	-	357.0 162.27
6 15/16 7	-	USRB5538A-615 USRB5538A-700	334229 1486651	7 7/8 200.0	28 711.2	21 5/8 549.3	24 3/8 619.1	7 1/2 190.5	4 1/2 114.3	3 1/8 79.4	16 9/16 420.7	9 23/32 246.9	9 11/16 246.1	10 11/32 262.7	-	1 1/4	-	405.0 184.09
7 1/2 7 15/16 8	-	USRB5544A-708 USRB5544A-715 USRB5544A-800	363818 1618262	9 1/2 241.3	32 3/4 831.9	24 3/4 628.7	27 7/8 708.0	8 3/4 222.3	5 1/4 133.4	3 3/4 95.3	19 5/8 498.5	10 9/16 268.3	11 7/64 282.2	11 17/32 292.9	-	1 1/2	-	656.0 298.18

*For expansion bearings, this dimension can decrease by the corresponding value in table VIII on page I-69.
 Bore diameters up to 3" - grease fitting location at 12:00.
 One expansion unit is to be used in conjunction with one non-expansion unit for applications using an adapter lock unit
 Failure to utilize one expansion and one non-expansion unit is likely to result in reduced bearing performance.

Installation Instructions continued

Alternate Lubrication Procedure:

Stop rotating equipment. Add one half the recommended amount shown in Table V. Start the bearing and run for a few minutes. Stop the bearing and add the second half of the recommended amount. A temperature rise after lubrication, sometimes 30°F (17°C), is normal. Bearing should operate at temperatures less than 200°F (94°C) and should not exceed 250° (121°C) for intermittent operation. For lubrication guidelines, see Table VI.

Note: Table VI are general recommendations. Experience and testing may be required for specific applications.

Note: Grease charges in Table V are based on the use of lithium complex thickened grease with a NLGI grade 2 consistency.

Expansion Bearing Applications:

Before installation, make certain proper expansion is accounted for. Expansion units should be placed in a location where relative movement between the bearing insert and the housing can be tolerated. For most applications using expansion type units, the fixed unit (non-expansion unit) is placed at the drive end of the shaft. Use Table VIII to review the total available bearing expansion. If the application requires additional expansion, consult Application Engineering.

NOTICE: One expansion unit is to be used in conjunction with one non-expansion unit for applications using adapter lock units. Failure to utilize one expansion and one non-expansion unit is likely to result in reduced bearing performance.

Table V

Grease Charge for Relubrication	
Bore Size	Grease Charge (Mass - Ounces)
1 1/8 - 1 1/2	0.20
1 11/16 - 1 3/4	0.20
1 15/16 - 2	0.25
2 3/16	0.40
2 7/16 - 2 1/2	0.60
2 11/16 - 3	0.75
3 3/16 - 3 1/2	1.25
3 11/16 - 4	2.00
4 7/16 - 4 1/2	2.75
4 15/16 - 5	4.00

Table VI

Relubrication Recommendations			
Environment	Temperature (°F)	Speed (% Catalog Max)	Frequency
Dirty	-20 to 250	0 - 100%	Daily to 1 Week
		0 - 25%	4 to 10 Months
Clean	-20 to 125	26 - 50%	1 to 4 Months
		51 - 75%	1 Week to 1 Month
		76 - 100%	Daily to 1 Week
		0 - 25%	2 to 6 Weeks
	125 to 175	26 - 50%	1 Week to 1 Month
		51 - 75%	Daily to 1 Week
76 - 100%			
175 to 250	0 - 100%	Daily to 1 Week	

Table VII

Maximum Operational Speed		
Bore Size	Felt Seal (RPM)	Contact Seal (RPM)
1 1/8 - 1 1/2	4000	3000
1 11/16 - 1 3/4	4000	2750
1 15/16 - 2	4000	2500
2 3/16	3750	2200
2 7/16 - 2 1/2	3250	1750
2 11/16 - 3	3000	1600
3 3/16 - 3 1/2	2500	1350
3 11/16 - 4	2250	1200
4 7/16 - 4 1/2	2000	1100
4 15/16 - 5	1750	900

Table VIII

Total Available Housing Expansion (inch)		
Bore Size	Setscrew	Adapter Lock
1 1/8 - 1 1/2	3/16	5/32
1 11/16 - 3 1/2	1/4	7/32
3 11/16 - 4	5/16	1/4
4 7/16 - 5	3/8	9/32

