

RELIABLE BRONZE & MFG., INC.

R-Lube®

Powdered Metal

R-Con®

Cast Bronze

Bearings

R-Con®

Cast Bronze

Bar & Plate



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RELIABLE BRONZE & MFG., INC.

P.O. Box 9 • 340 Rush Point Drive • Stanchfield, MN 55080

Metro & Local Phone: 763-689-4143

Toll-Free Phone: 800-445-4374

Sales Dept. Faxes: 763-689-3219

E-mail: sales@reliablebronze.com

Website: www.reliablebronze.com

RELIABLE BRONZE & MFG., INC.

763-689-4143
1-800-445-4374

R-LUBE POWDERED METAL BASIC MATERIALS

PMPA DESIGNATION	CT-0010-R	CT-0010-S	CZP-0218-T	CZP-0218-U		F-0000-N	F-0000-P	F-0000-S	F-0008-P	FC-0808P	FC-1000-N	FC-2000-N	FC-2010-N	FX-2000-T	FX-2008-T	FN-0208-R
MATERIAL	BRONZE	BRONZE	BRASS	BRASS	IRON BRONZE	IRON	IRON	HI-DENS. IRON	STEEL	COPPER STEEL	IRON ALLOY	IRON ALLOY	COPPER STEEL	IRON CU. INFILT.	INFILTRATED STEEL	NICKEL STEEL
SUGGESTED USES	BEARINGS	STRUCTURAL PARTS BEARINGS	STRUCTURAL PARTS BEARINGS	STRUCTURAL PARTS	BEARINGS	STRUCTURAL PARTS BEARINGS	STRUCTURAL PARTS BEARINGS	STRUCTURAL PARTS	STRUCTURAL PARTS	STRUCTURAL PARTS	BEARINGS	BEARINGS	BEARINGS	STRUCTURAL PARTS	STRUCTURAL PARTS	STRUCTURAL PARTS
COMPOSITION - PER CENT																
COPPER	86.3-90.5	86.3-90.5	77.0-80.0	77.0-80.0	31.5					6.0-11.0	9.5-10.5	18-22	18-22	15-25	15-25	0-2.5
IRON	1.0 Max.	1.0 Max.	0.3 Max.	0.3 Max.	Bal.	97.7-100.0	97.7-100.0	97.7-100.0	97.0-99.4	86.0-93.4	88 Min.	76-81	75-80	70.7-85	70-84.4	91.6-98.4
TIN	9.5-10.5	9.5-10.5			3.5											
LEAD			1.0-2.0	1.0-2.0												
CARBON	1.70 Max.	1.70 Max.				0.3 Max.	0.3 Max.	0.3 Max.	0.6-1.0	0.6-1.0	0.3 Max.	0.3 Max.	0.6-1.0	0.3 Max.	0.6-1.0	0.6-0.9
ZINC			Bal.	Bal.												
NICKEL																1.0-3.0
MOLYBDENUM																0.35-0.65
SULPHUR																
OTHER ELEMENTS	0.5	0.5				2	2	2	2.0	2.0	2.0	2.0	2.0	4.0	4.0	2.0
PHYSICAL & MECHANICAL PROPERTIES																
Density gms per cm3	6.4-6.8	6.8-7.2	7.2-7.6	7.6-8.0	5.8-6.2	5.6-6.0	6.0-6.4	6.8-7.2	6.0-6.4	6.0-6.4	5.8-6.2	5.8-6.2	5.6-6.0	7.2-7.6	7.2-7.6	6.4-6.8
Porosity % by Volume	18 Min.	7 Min.	7 Min.		20 Min.	18 Min.	15 Min.		7 Min.	15 Min.	18 Min.	20 Min.	20 Min.			
Tensile Strength PSI																
As Sintered	14,000	18,000	24,000	28,000	14,000	16,000	20,000	30,000	34,000	70,000	28,000	22,000	40,000	65,000	85,000	65,000
Heat Treated									50,000	88,000			50,000			90,000
Modulus of Rupture PSI	26,500	30,500			25,000	25,000					40,000	40,000	64,000			
Elong. (in 1") Typ.	1	2-3	13	19	3-5	2	3	6	0-0.5	0-0.5	0-0.5	2-3	0-0.5	1	1	0.5
Yld. Strength in Comp.	11,000	17,500	12,000	14,000		12,000		25,000	26,000		25,000			70,000	90,000	
App. Rockwell Hardness			H55	H68												
As Sintered					F-52	F-30	F-45	F-60	B-50	B-60	F-53	F-35	B-40	B-60	B-80	B-62
Heat Treated									C-20	C-20			B-70			C-20
COMPARABLE SPECIFICATIONS	B-438-67 Grade 1 Type II	B-255 Type II	B-282 Class A	B-282 Class B		B-439 Gr. 1 B-310 Type 1 Class A	B-310 Type 2 Class A	B-310 Type 4 Class A	B-310 Type II Class C		B-222 B-439 Grade 3	B-439 Grade 4		B-303 Class A	B-303 Class C	B-484 Grade 1 Class C Type 1
ASTM																
SAE	841	842	890	891		850	853		855		862	863		870	872	
MILITARY	Mil-B-5687-D Type I Grade 1		Mil-12128-C Comp. 3 Med. Dens.	Mil-12128-C Hi-Dens.		Mil-B-5687-D Type II Grade I					Mil-5687-D Type II Grade 3	Mil-B05687-D Type II Grade 4				

R-LUBE POWDERED METAL NOMINAL TOLERANCES

ALL FIGURES ARE IN INCHES

PLAIN AND FLANGE BEARINGS					Concentricity, ID with respect to OD (Maximum Total Dia! Indicator Reading) Based on ID:				
Inside and Outside Diameters									
OVER	UP TO & INCL.		SAE 841	SAE 863	SAE 863 H.T.	SAE 841	SAE 863	SAE 863 H.T.	
-	1/2	+ .000	-.001	-.001	-.003	.003	.003	.003	
1/2	1	+ .000	-.001	-.001	-.003	.003	.004	.004	
1	1 1/2	+ .000	-.001	-.0015	-.003	.004	.005	.005	
1 1/2	2 1/2	+ .000	-.0015	-.002	-.004	.005	.006	.006	
2 1/2	3 1/2	+ .000	-.002	-.003	-.005	.006	.007	.007	
3 1/2	4 1/2	+ .000	-.0025	-.003	-.005				
4 1/2	5 1/2	+ .000	-.0035	-.0045	-.006				
5 1/2	6 1/2	+ .000	-.004	-.006	-.007				
Length									
-	1 1/2		±.005	±.010	±.010				
1 1/2	3		±.0075	±.015	±.015				
3	4 1/2		±.010	±.020	±.020				
4 1/2	6		±.015	±.030	±.030				
Flange Diameter Based on Flange OD:									
-	1 1/4		±.005	±.010	±.010				
1 1/4	2 1/2		±.010	±.015	±.015				
2 1/2	4		±.015	±.020	±.020				
4	6		±.025	±.025	±.025				
Flange Thickness Based on Flange OD:									
-	1 1/4		±.0025	±.005	±.005				
1 1/4	2 1/2		±.005	±.0075	±.0075				
Flange Fillets, Radii Based on Body OD:									
-	1		1/32 ± .010	1/32 ± .010	1/32 ± .010				
1	2		3/64 ± .010	3/64 ± .010	3/64 ± .010				
2	2 1/2		1/16 ± .010	1/16 ± .010	1/16 ± .010				
2 1/2	4		3/32 ± 1/64	3/32 ± 1/64	3/32 ± 1/64				
4	6		1/8 ± 1/64	1/8 ± 1/64	1/8 ± 1/64				
					THRUST BEARINGS				
					Inside Diameter				
					-	1 1/4	±.005	±.005	±.005
					1 1/4	2 1/2	±.010	±.010	±.010
					2 1/2	4	±.015	±.015	±.015
					4	6	±.020	±.020	±.025
					Outside Diameter				
					-	1 1/2	±.010	±.010	±.010
					1 1/2	3	±.015	±.015	±.015
					3	4 1/2	±.020	±.020	±.020
					4 1/2	6	±.025	±.025	±.025
					Thickness*				
							±.0025	±.005	±.005
					Parallelism of Faces Based on OD:				
					-	1 1/2	.002	.003	Not Standardized
					1 1/2	3 1/2	.003	.004	
					3 1/2	6	.004	.005	

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R-LUBE POWDERED METAL BRONZE BEARINGS SAE 841 (Sleeve Bearings)



ID	OD	LENGTH	REF. NO.
1/8 x 3/16 NOMINAL			
.125	.190	5/32 1/4 3/8 1/2	AA-101-8 AA-101-2 AA-101 AA-101-1
.1265	.1895	1/8 1/4 5/16	AA-110-1 AA-110-2 AA-110-4
.127	.1905	1/4 1/2	P-12-2 (EP020304) P-12-4 (EP020308)
1/8 x 7/32 NOMINAL			
.127	.222	1/4 3/8	AA-223 AA-223-1
1/8 x 1/4 NOMINAL			
.127	.252	1/8 1/4 3/8 1/2	B-24-1 B-24-2 B-24-3 B-24-4
.127	.253	1/8 1/4 3/8 1/2	P-13-1 (EP020402) P-13-2 (EP020404) P-13-3 (EP020406) P-13-4 (EP020408)
.128	.253	1/4 3/8	AA-224 AA-224-1
1/8 x 5/16 NOMINAL			
.127	.315	1/8 1/4 3/8 1/2 5/8	B-25-1 B-25-2 B-25-3 B-25-4 B-25-5
.127	.3155	1/8 1/4 1/2	P-14-1 (EP020502) P-14-2 (EP020504) P-14-4 (EP020508)
1/8 x 3/8 NOMINAL			
.127	.377	1/4 1/2	AA-337-2 AA-337-3
5/32 x 7/32 NOMINAL			
.156	.220	1/4 3/8	AA-211 AA-211-1

ID	OD	LENGTH	REF. NO.
5/32 x 1/4 NOMINAL			
.1565	.2525	3/8	AA-238
.159	.253	1/4 5/16	AA-204-1 AA-204
3/16 x 1/4 NOMINAL			
.1875	.252	1/4 5/16 3/8 1/2 5/8	AA-225-2 AA-225-1 AA-225-6 AA-225-4 AA-225-3
.1885	.252	1/4 3/8 7/16 1/2 5/8	AA-226-1 AA-226-2 AA-226 AA-226-3 AA-226-4
.189	.252	1/4 3/8 1/2 5/8 3/4	B-34-2 B-34-3 B-34-4 B-34-5 B-34-6
.1895	.253	1/4 3/8 1/2 5/8 3/4	P-18-2 (EP030404) P-18-3 (EP030406) P-18-4 (EP030408) P-18-5 (EP030410) P-18-6 (EP030412)
3/16 x 5/16 NOMINAL			
.1885	.3145	3/16 1/4 5/16 3/8 7/16 1/2 5/8 3/4	AA-309-9 AA-309 AA-309-3 AA-309-4 AA-309-8 AA-309-14 AA-309-7 AA-309-5
.189	.314	1/4 3/8 1/2 5/8 3/4	B-35-2 B-35-3 B-35-4 B-35-5 B-35-6
.1895	.3145	3/16 1/4 3/8	AA-331 AA-331-2 AA-331-3
.1895	.3155	1/4 3/8 1/2	P-19-2 (EP030504) P-19-3 (EP030506) P-19-4 (EP030508)

ID	OD	LENGTH	REF. NO.
.1895	.3155	5/8 3/4 1	P-19-5 (EP030510) P-19-6 (EP030512) P-19-8 (EP030516)
3/16 x 3/8 NOMINAL			
.1885	.3775	1/4 3/8 1/2	AA-346-1 AA-346-2 AA-346
.1895	.378	3/8 1/2 5/8 3/4	P-20-3 (EP030606) P-20-4 (EP030608) P-20-5 (EP030610) P-20-6 (EP030612)
7/32 x 5/16 NOMINAL			
.219	.3145	5/16 3/8	AA-318 AA-318-1
7/32 x 7/16 NOMINAL			
.219	.440	1/2	AA-410-2
.219	.440	3/4	AA-410-3
1/4 x 5/16 NOMINAL			
.2505	.3145	1/4 1/2	AA-397-1 AA-397
.2515	.3155	1/4 3/8	AA-347-2 AA-347-3
.252	.3155	1/4 3/8 1/2 3/4	P-25-2 (EP040504) P-25-3 (EP040506) P-25-4 (EP040508) P-25-6 (EP040512)
.253	.3155	1/2 5/8 3/4	AA-335-4 AA-335-6 AA-335-5
1/4 x 3/8 NOMINAL			
.2505	.377	1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1-1/8 1-1/4	AA-304-35 AA-304-9 AA-304-7 AA-304-24 AA-304-2 AA-304-5 AA-304-1 AA-304-22 AA-304-21 AA-304-20 AA-304-33 AA-304-11

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ID	OD	LENGTH	REF. NO.
1/4 x 3/8 NOMINAL Cont.			
.252	.377	1/4	AA-307
		5/16	AA-307-1
		3/8	AA-307-9
		1/2	AA-307-3
		5/8	AA-307-10
		3/4	AA-307-11
		1	AA-307-2
		1-1/8	AA-307-13
.252	.377	1/4	B-46-2
		5/16	B-46-2-1/2
		3/8	B-46-3
		1/2	B-46-4
		5/8	B-46-5
		3/4	B-46-6
		7/8	B-46-7
		1	B-46-8
		1-1/4	B-46-10
		.252	.378	1/4	P-26-2 (EP040604)
3/8	P-26-3 (EP040606)		
1/2	P-26-4 (EP040608)		
5/8	P-26-5 (EP040610)		
3/4	P-26-6 (EP040612)		
7/8	P-26-7 (EP040614)		
1	P-26-8 (EP040616)		
1-1/8	P-26-9 (EP040618)		
1-1/4	P-26-10 (EP040620)		
.253	.377		
		1/2	AA-385
		3/4	AA-385-2
1/4 x 7/16 NOMINAL			
.251	.4395	3/8	AA-430
		1/2	AA-430-1
		5/8	AA-430-5
		3/4	AA-430-2
		7/8	AA-430-6
		1	AA-430-3
.252	.439	3/8	B-47-3
		1/2	B-47-4
		5/8	B-47-5
		3/4	B-47-6
		7/8	B-47-7
1	B-47-8		
.252	.4395	3/8	AA-412-10
		1/2	AA-412-7
		5/8	AA-412-6
		3/4	AA-412-1
		1	AA-412-8

ID	OD	LENGTH	REF. NO.		
.252	.4405	3/8	P-27-3 (EP040706)		
		1/2	P-27-4 (EP040708)		
		5/8	P-27-5 (EP040710)		
		3/4	P-27-6 (EP040712)		
		7/8	P-27-7 (EP040714)		
		1	P-27-8 (EP040716)		
		1/4 x 1/2 NOMINAL			
		.252	.5015	5/16	AA-519-4
				1/2	AA-519-1
				3/4	AA-519-2
1	AA-519-3				
.252	.502	3/8	B-48-3		
		1/2	B-48-4		
		5/8	B-48-5		
		3/4	B-48-6		
		7/8	B-48-7		
		1-1/4	B-48-8 B-48-10		
.252	.503	1/2	P-28-4 (EP040808)		
		3/4	P-28-6 (EP040812)		
		1	P-28-8 (EP040816)		
		1-1/4	P-28-10 (EP040820)		
5/16 x 3/8 NOMINAL					
.3135	.377	1/4	AA-306-11		
		5/16	AA-306-1		
		3/8	AA-306-3		
		1/2	AA-306-7		
		3/4	AA-306-8 AA-306-6		
.314	.377	3/8	B-56-3		
		1/2	B-56-4		
		5/8	B-56-5		
		3/4	B-56-6		
		7/8	B-56-7		
		1	B-56-8		
.3145	.378	1/4	P-31-2 (EP050604)		
		3/8	P-31-3 (EP050606)		
		1/2	P-31-4 (EP050608)		
		5/8	P-31-5 (EP050610)		
		3/4	P-31-6 (EP050612)		
		1/4	B-56-3		
		1/2	B-56-4		
		5/8	B-56-5		

ID	OD	LENGTH	REF. NO.		
.3145	.378	7/8	P-31-7 (EP050614)		
		1	P-31-8 (EP050616)		
5/16 x 7/16 NOMINAL					
.3115	.441	3/8	AA-403		
		1/2	AA-403-2		
.3125	.440	1/4	AA-407-1		
		5/16	AA-407-10		
		3/8	AA-407-7		
		1/2	AA-407-3		
		5/8	AA-407-2		
		3/4	AA-407-4		
.3135	.4395	1/4	AA-401-17		
		5/16	AA-401-25		
		3/8	AA-401-2		
		7/16	AA-401-20		
		1/2	AA-401-3		
		5/8	AA-401-21		
		11/16	AA-401-11		
		3/4	AA-401-5		
		7/8	AA-401-12		
		1	AA-401-1		
1-1/8	AA-401				
1-1/4	AA-401-6				
1-3/8	AA-401-8				
.314	.439	1/4	B-57-2		
		3/8	B-57-3		
		1/2	B-57-4		
		5/8	B-57-5		
		3/4	B-57-6		
		7/8	B-57-7		
		1	B-57-8		
		1-1/4	B-57-10		
		1-3/8	B-57-11		
		.3145	.4405	1/4	P-32-2 (EP050704)
				3/8	P-32-3 (EP050706)
1/2	P-32-4 (EP050708)				
5/8	P-32-5 (EP050710)				
3/4	P-32-6 (EP050712)				
7/8	P-32-7 (EP050714)				
1	P-32-8 (EP050716)				
1-1/8	P-32-9 (EP050718)				
1-1/4	P-32-10 (EP050720)				
.3155	.4395			1/4	AA-417-7
		1/2	AA-417		
		3/4	AA-417-3		

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ID	OD	LENGTH	REF. NO.		
5/16 x 1/2 NOMINAL					
.3125	.503	3/8	AA-520-8		
		1/2	AA-520-3		
		5/8	AA-520-4		
		3/4	AA-520-1		
		7/8	AA-520-2		
		1	AA-520-5		
.314	.502	3/8	B-58-3		
		1/2	B-58-4		
		5/8	B-58-5		
		3/4	B-58-6		
		7/8	B-58-7		
		1	B-58-8		
		1-1/4	B-58-10		
		1-1/2	B-58-12		
.314	.503	1/4	AA-506-16		
		3/8	AA-506-2		
		1/2	AA-506-7		
		9/16	AA-506-1		
		5/8	AA-506-3		
		3/4	AA-506-8		
		1	AA-506-9		
		.3145	.503	3/8	P-33-3 (EP050806)
1/2	P-33-4 (EP050808)				
5/8	P-33-5 (EP050810)				
3/4	P-33-6 (EP050812)				
7/8	P-33-7 (EP050814)				
1	P-33-8 (EP050816)				
1-1/4	P-33-10 (EP050820)				
1-1/2	P-33-12 (EP050824)				
3/8 x 7/16 NOMINAL					
.3765	.440			1/4	AA-432-4
				3/8	AA-432-2
				1/2	AA-432-1
		3/4	AA-432-3		
.377	.4405	1/2	P-37-4 (EP060708)		
		5/8	P-37-5 (EP060710)		
		3/4	P-37-6 (EP060712)		
		1	P-37-8 (EP060716)		

ID	OD	LENGTH	REF. NO.		
3/8 x 1/2 NOMINAL					
.375	.503	1/4	AA-521-4		
		3/8	AA-521-9		
		7/16	AA-521-8		
		1/2	AA-521-1		
		5/8	AA-521-10		
		3/4	AA-521		
		7/8	AA-521-2		
		1	AA-521-11		
		1-1/4	AA-521-12		
		.3765	.503	3/16	AA-507-12
				1/4	AA-507-19
				5/16	AA-507-13
3/8	AA-507-11				
7/16	AA-507-4				
1/2	AA-507-10				
5/8	AA-507-5				
3/4	AA-507-2				
7/8	AA-507-3				
1	AA-507-23				
1-1/8	AA-507-17				
.377	.502			3/8	B-68-3
		1/2	B-68-4		
		5/8	B-68-5		
		3/4	B-68-6		
		7/8	B-68-7		
		1	B-68-8		
.377	.503	1-1/4	B-68-10		
		1/4	P-38-2 (EP060804)		
		3/8	P-38-3 (EP060806)		
		1/2	P-38-4 (EP060808)		
		5/8	P-38-5 (EP060810)		
		3/4	P-38-6 (EP060812)		
.378	.5025	7/8	P-38-7 (EP060814)		
		1	P-38-8 (EP060816)		
		1-1/8	P-38-9 (EP060818)		
		1-1/4	P-38-10 (EP060820)		
		1/4	AA-502-5		
		1/2	AA-502		
5/8	AA-502-3				
3/4	AA-502-1				
1	AA-502-2				
3/8 x 9/16 NOMINAL					
.3765	.5655	3/8	AA-516-5		
		1/2	AA-516-6		
		9/16	AA-516-3		
		11/16	AA-516		

ID	OD	LENGTH	REF. NO.
.3765	.5655	3/4	AA-516-10
		1	AA-516-8
		1-1/4	AA-516-2
.377	.5645	3/8	B-69-3
		1/2	B-69-4
		5/8	B-69-5
		3/4	B-69-6
		7/8	B-69-7
		1	B-69-8
.377	.5655	1-1/4	B-69-10
		3/8	P-39-3 (EP060906)
		1/2	P-39-4 (EP060908)
.377	.5655	5/8	P-39-5 (EP060910)
		3/4	P-39-6 (EP060912)
		7/8	P-39-7 (EP060914)
		1	P-39-8 (EP060916)
		1-1/4	P-39-10 (EP060920)
		3/8 x 5/8 NOMINAL	
.376	.627	3/8	AA-630-8
		7/16	AA-630-16
		1/2	AA-630-11
		5/8	AA-630-6
		3/4	AA-630-12
		7/8	AA-630
		1	AA-630-7
		1-1/8	AA-630-1
.377	.627	1-1/4	AA-630-2
		3/8	B-610-3
		1/2	B-610-4
		5/8	B-610-5
		3/4	B-610-6
		7/8	B-610-7
		1	B-610-8
		1-1/4	B-610-10
.377	.628	3/8	P-40-3 (EP061006)
		1/2	P-40-4 (EP061008)
		5/8	P-40-5 (EP061010)
		3/4	P-40-6 (EP061012)
		7/8	P-40-7 (EP061014)
		1	P-40-8 (EP061016)
		1-1/4	P-40-10 (EP061020)

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ID	OD	LENGTH	REF. NO.
3/8 x 11/16 NOMINAL			
.3765	.689	3/4 1-1/2	AA-615 AA-615-2
3/8 x 3/4 NOMINAL			
.377	.753	1/2 3/4 1 1-1/4	AA-707-2 AA-707-3 AA-707 AA-707-4
.377	.753	3/8 1/2 3/4 1 1-1/4	B-612-3 B-612-4 B-612-6 B-612-8 B-612-10
.377	.753	3/8 1/2 3/4 1 1-1/4	P-41-3 (EP061206) P-41-4 (EP061208) P-41-6 (EP061212) P-41-8 (EP061216) P-41-10 (EP061220)
7/16 x 9/16 NOMINAL			
.439	.5645	3/8 1/2 5/8 3/4 7/8 1 1-1/4	B-79-3 B-79-4 B-79-5 B-79-6 B-79-7 B-79-8 B-79-10
.439	.565	5/16 3/8 1/2 5/8 3/4 13/16 15/16 1	AA-515-1 AA-515-21 AA-515-2 AA-515-3 AA-515 AA-515-12 AA-515-6 AA-515-8
.4395	.5655	3/8 1/2 5/8 3/4 7/8 1 1-1/4	P-43-3 (EP070906) P-43-4 (EP070908) P-43-5 (EP070910) P-43-6 (EP070912) P-43-7 (EP070914) P-43-8 (EP070916) P-43-10 (EP070920)

ID	OD	LENGTH	REF. NO.
7/16 x 5/8 NOMINAL			
.439	.627	3/8 7/16 1/2 5/8 3/4 1 1-1/4 1-1/2	AA-627-5 AA-627-13 AA-627-8 AA-627-3 AA-627 AA-627-4 AA-627-1 AA-627-7
.439	.628	3/8 1/2 5/8 3/4 7/8 1 1-1/4	B-710-3 B-710-4 B-710-5 B-710-6 B-710-7 B-710-8 B-710-10
.4395	.628	3/8 1/2 5/8 3/4 7/8 1 1-1/4	P-44-3 (EP071006) P-44-4 (EP071008) P-44-5 (EP071010) P-44-6 (EP071012) P-44-7 (EP071014) P-44-8 (EP071016) P-44-10 (EP071020) P-44-12 (EP071024)
7/16 x 11/16 NOMINAL			
.439	.690	1/2 1 1-1/2	B-711-4 B-711-8 B-711-12
.4395	.6905	1/2 1 1-1/2	P-45-4 (EP071108) P-45-8 (EP071116) P-45-12 (EP071124)
1/2 x 5/8 NOMINAL			
.5015	.628	5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 7/8 1 1-1/4 1-1/2	AA-628-21 AA-628-7 AA-628-8 AA-628-10 AA-628-3 AA-628-25 AA-628-12 AA-628-6 AA-628-20 AA-628 AA-628-11 AA-628-5

ID	OD	LENGTH	REF. NO.
.502	.628	1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2	B-810-4 B-810-5 B-810-6 B-810-7 B-810-8 B-810-9 B-810-10 B-810-12
.502	.628	3/8 1/2 5/8 3/4 7/8 1	P-50-3 (EP081006) P-50-4 (EP081008) P-50-5 (EP081010) P-50-6 (EP081012) P-50-7 (EP081014) P-50-8 (EP081016)
.502	.628	1-1/8 1-1/4 1-1/2	P-50-9 (EP081018) P-50-10 (EP081020) P-50-12 (EP081024)
.5025	.629	1/2 5/8 3/4 1 1-1/4	AA-607-1 AA-607-2 AA-607-5 AA-607-3 AA-607-6
.504	.6275	1/2 1	AA-634-4 AA-634-5
1/2 x 11/16 NOMINAL			
.5015	.690	3/8 1/2 9/16 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2	AA-650-4 AA-650-1 AA-650-6 AA-650-9 AA-650 AA-650-7 AA-650-2 AA-650-5 AA-650-12 AA-650-3
.502	.690	1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2	B-811-4 B-811-5 B-811-6 B-811-7 B-811-8 B-811-9 B-811-10 B-811-12

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ID	OD	LENGTH	REF. NO.		
1/2 x 11/16 NOMINAL Cont.					
.502	.6905	1/2	P-51-4 (EP081108)		
		5/8	P-51-5 (EP081110)		
		3/4	P-51-6 (EP081112)		
		7/8	P-51-7 (EP081114)		
		1	P-51-8 (EP081116)		
		1-1/8	P-51-9 (EP081118)		
		1-1/4	P-51-10 (EP081120)		
		1-1/2	P-51-12 (EP081124)		
		.5025	.689	3/8	AA-631-13
				3/4	AA-631
1-1/4	AA-631-1				
.504	.690	1/4	AA-618-16		
		1/2	AA-618-1		
		9/16	AA-618-13		
		5/8	AA-618-12		
		3/4	AA-618-11		
		7/8	AA-618-8		
		1	AA-618-6		
		1-1/8	AA-618-2		
1-3/8	AA-618-5				
1/2 x 3/4 NOMINAL					
.5005	.752	1/2	AA-742-1		
		3/4	AA-742-2		
		1	AA-742		
		1-1/8	AA-742-4		
		1-1/4	AA-742-3		
.5015	.752	1/2	AA-753		
		9/16	AA-753-1		
		3/4	AA-753-5		
		1	AA-753-2		
1-1/2	AA-753-4				
.502	.753	1/2	B-812-4		
		5/8	B-812-5		
		3/4	B-812-6		
		7/8	B-812-7		
		1	B-812-8		
		1-1/8	B-812-9		
		1-1/4	B-812-10		
		1-1/2	B-812-12		
		1-3/4	B-812-14		
		2	B-812-16		
		.502	.753	3/8	P-52-3 (EP081206)
				1/2	P-52-4 (EP081208)
5/8	P-52-5 (EP081210)				

ID	OD	LENGTH	REF. NO.		
.502	.753	3/4	P-52-6 (EP081212)		
		7/8	P-52-7 (EP081214)		
		1	P-52-8 (EP081216)		
		1-1/8	P-52-9 (EP081218)		
		1-1/4	P-52-10 (EP081220)		
		1-1/2	P-52-12 (EP081224)		
		1-3/4	P-52-14 (EP081228)		
		2	P-52-16 (EP081232)		
		.5025	.753	1/2	AA-744-5
				5/8	AA-744-9
				3/4	AA-744-4
				7/8	AA-744-10
1	AA-744-3				
1-1/4	AA-744				
1-1/2	AA-744-1				
1-3/4	AA-744-2				
1/2 x 13/16 NOMINAL					
.501	.815	3/4	AA-886-3		
		1	AA-886-1		
.502	.815	1-1/2	AA-886-4		
		1/2	B-813-4		
.502	.815	3/4	B-813-6		
		1	B-813-8		
		1-1/2	B-813-12		
.502	.8165	1/2	P-53-4 (EP081308)		
		3/4	P-53-6 (EP081312)		
		1	P-53-8 (EP081316)		
		1-1/2	P-53-12 (EP081324)		
1/2 x 7/8 NOMINAL					
.502	.878	1/2	B-814-4		
		5/8	B-814-5		
		3/4	B-814-6		
		7/8	B-814-7		
		1	B-814-8		
		1-1/4	B-814-10		
		1-1/2	B-814-12		
.502	.879	1/2	P-54-4 (EP081408)		
		5/8	P-54-5 (EP081410)		
		3/4	P-54-6 (EP081412)		
		7/8	P-54-7 (EP081414)		

ID	OD	LENGTH	REF. NO.
.502	.879	1	P-54-8 (EP081416)
		1-1/4	P-54-10 (EP081420)
		1-1/2	P-54-12 (EP081424)
.503	.879	1/2	AA-842-7
		3/4	AA-842-4
		1	AA-842-3
		1-1/4	AA-842-2
		1-1/2	AA-842
1/2 x 1 NOMINAL			
.502	1.004	3/4	P-55-6 (EP081612)
		1	P-55-8 (EP081616)
		1-1/2	P-55-12 (EP081624)
		2	P-55-16 (EP081632)
9/16 x 11/16 NOMINAL			
.5635	.691	7/16	AA-620-3
		1/2	AA-620-7
		5/8	AA-620-8
		3/4	AA-620-1
		1	AA-620
.5645	.6905	1-1/4	AA-620-5
		1/2	P-56-4 (EP091108)
.5645	.6905	3/4	P-56-6 (EP091112)
		1	P-56-8 (EP091116)
		1-1/4	P-56-10 (EP091120)
		1-1/2	P-56-12 (EP091124)
.565	.691	1/2	B-911-4
		3/4	B-911-6
		1	B-911-8
		1-1/2	B-911-12
.568	.689	1-1/8	AA-658-5
		1-1/2	AA-658-1
		2-3/8	AA-658
9/16 x 3/4 NOMINAL			
.5635	.7535	5/8	AA-711-6
		3/4	AA-711-1
		1	AA-711-3
.5635	.7535	1-1/4	AA-711-5

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ID	OD	LENGTH	REF. NO.
9/16 x 3/4 NOMINAL Cont.			
.5635	.7535	1-3/8 1-1/2	AA-711 AA-711-2
.5645	.753	1/2 3/4 1 1-1/4 1-1/2	P-57-4 (EP091208) P-57-6 (EP091212) P-57-8 (EP091216) P-57-10 (EP091220) P-57-12 (EP091224)
.565	.753	1/2 3/4 1 1-1/2	B-912-4 B-912-6 B-912-8 B-912-12
.566	.753	1/2 3/4 1 1-1/4 1-1/2	AA-709-7 AA-709-8 AA-709 AA-709-5 AA-709-6
9/16 x 13/16 NOMINAL			
.563	.815	3/4 1 1-1/4	AA-807-3 AA-807-2 AA-807-4
.5645	.8165	1/2 3/4 1 1-1/4 1-1/2	P-58-4 (EP091308) P-58-6 (EP091312) P-58-8 (EP091316) P-58-10 (EP091320) P-58-12 (EP091324)
.565	.815	1/2 3/4 1 1-1/4 1-1/2	B-913-4 B-913-6 B-913-8 B-913-10 B-913-12
9/16 x 7/8 NOMINAL			
.567	.877	1 1-3/8	AA-863-3 AA-863
5/8 x 3/4 NOMINAL			
.626	.753	1/2 7/8 1 1-1/8 1-1/4	AA-724-8 AA-724-2 AA-724-3 AA-724 AA-724-5
.627	.752	1/2 5/8 3/4	AA-741 AA-741-1 AA-741-4

ID	OD	LENGTH	REF. NO.
.627	.753	3/8 1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2	AA-710-13 AA-710-27 AA-710-19 AA-710-6 AA-710-16 AA-710-3 AA-710-8 AA-710-5 AA-710-4
.627	.753	1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2	P-62-4 (EP101208) P-62-5 (EP101210) P-62-6 (EP101212) P-62-7 (EP101214) P-62-8 (EP101216) P-62-9 (EP101218) P-62-10 (EP101220) P-62-12 (EP101224)
.628	.753	1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2	B-1012-4 B-1012-5 B-1012-6 B-1012-7 B-1012-8 B-1012-9 B-1012-10 B-1012-12
5/8 x 13/16 NOMINAL			
.625	.815	1/2 5/8 3/4 7/8 1 1-1/4 1-3/8 1-1/2	AA-810-4 AA-810-2 AA-810-10 AA-810-1 AA-810-7 AA-810-11 AA-810 AA-810-12
.627	.815	3/4 1 1-1/4 1-3/8 1-1/2 1-1/2 1-3/4 1-1/2 2	AA-811-7 AA-811-6 AA-811-2 AA-811-5 AA-811-3 AA-811-1 AA-811
.627	.815	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 2	B-1013-4 B-1013-5 B-1013-6 B-1013-7 B-1013-8 B-1013-10 B-1013-12 B-1013-16

ID	OD	LENGTH	REF. NO.
.627	.8165	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4	P-63-4 (EP101308) P-63-5 (EP101310) P-63-6 (EP101312) P-63-7 (EP101314) P-63-8 (EP101316) P-63-10 (EP101320) P-63-12 (EP101324) P-63-14 (EP101328)
.628	.8155	5/8 3/4 1 1-1/4	AA-814-3 AA-814-2 AA-814 AA-814-5
5/8 x 7/8 NOMINAL			
.625	.877	1/2 3/4 1 1-1/2	AA-880-4 AA-880-2 AA-880-1 AA-880
.627	.878	1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-3/8 1-1/2 1-5/8 2	AA-832-11 AA-832-12 AA-832-6 AA-832-8 AA-832-1 AA-832-13 AA-832-4 AA-832-2 AA-832-5 AA-832-9 AA-832-18
.627	.878	5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4 2	B-1014-5 B-1014-6 B-1014-7 B-1014-8 B-1014-10 B-1014-12 B-1014-14 B-1014-16
.627	.879	1/2 5/8 3/4 7/8 1 1-1/8 1-1/4	P-64-4 (EP101408) P-64-5 (EP101410) P-64-6 (EP101412) P-64-7 (EP101414) P-64-8 (EP101416) P-64-9 (EP101418) P-64-10 (EP101420)

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ID	OD	LENGTH	REF. NO.
5/8 x 7/8 NOMINAL Cont.			
.627	.879	1-1/2	P-64-12 (EP101424)
		1-3/4	P-64-14 (EP101428)
		2	P-64-16 (EP101432)
5/8 x 15/16 NOMINAL			
.627	.9415	5/8	P-65-5 (EP101510)
		3/4	P-65-6 (EP101512)
		1	P-65-8 (EP101516)
.628	.940	5/8	AA-946-4
		3/4	AA-946-2
		1	AA-946-1
5/8 x 1 NOMINAL			
.627	1.003	1/2	B-1016-4
		5/8	B-1016-5
		3/4	B-1016-6
		7/8	B-1016-7
		1	B-1016-8
		1-1/4	B-1016-10
		1-1/2	B-1016-12
		1-3/4	B-1016-14
		2	B-1016-16
.627	1.004	1/2	P-66-4 (EP101608)
		5/8	P-66-5 (EP101610)
		3/4	P-66-6 (EP101612)
		1	P-66-8 (EP101616)
		1-1/4	P-66-10 (EP101620)
		1-1/2	P-66-12 (EP101624)
		1-3/4	P-66-14 (EP101628)
		2	P-66-16 (EP101632)
.628	1.0035	3/4	AA-1011-12
		7/8	AA-1011-5
		1	AA-1011-3
		1-1/8	AA-1011-4
		1-1/4	AA-1011-1
		1-3/8	AA-1011-13
		1-1/2	AA-1011

ID	OD	LENGTH	REF. NO.
11/16 x 13/16 NOMINAL			
.6885	.815	1	AA-812-1
		1-1/4	AA-812
11/16 x 7/8 NOMINAL			
.6895	.879	3/4	P-68-6 (EP111412)
		1	P-68-8 (EP111416)
		1-1/4	P-68-10 (EP111420)
		1-1/2	P-68-12 (EP111424)
		1-3/4	P-68-14 (EP111428)
		2	P-68-16 (EP111432)
.690	.878	1/2	AA-851-2
		3/4	AA-851-7
		1	AA-851-8
		1-1/8	AA-851-6
		1-1/4	AA-851-1
.690	.878	3/4	B-1114-6
		1	B-1114-8
		1-1/4	B-1114-10
		1-1/2	B-1114-12
		1-3/4	B-1114-14
		2	B-1114-16
11/16 x 15/16 NOMINAL			
.689	.941	1	AA-939-3
		1-1/4	AA-939-2
		1-1/2	AA-939-4
3/4 x 7/8 NOMINAL			
.751	.878	9/16	AA-838-9
		5/8	AA-838-25
		3/4	AA-838-16
		7/8	AA-838-6
		1	AA-838-7
		1-1/8	AA-838-13
		1-1/4	AA-838-5
		1-3/8	AA-838-15
		1-1/2	AA-838-4
		1-5/8	AA-838-8
.752	.878	3/4	AA-885
		1	AA-885-3
		1-1/4	AA-885-4
.752	.879	1/2	P-75-4 (EP121408)
		5/8	P-75-5 (EP121410)
		3/4	P-75-6 (EP121412)
		7/8	P-75-7 (EP121414)

ID	OD	LENGTH	REF. NO.
.752	.879	1	P-75-8 (EP121416)
		1-1/8	P-75-9 (EP121418)
		1-1/4	P-75-10 (EP121420)
		1-1/2	P-75-12 (EP121424)
		1-5/8	P-75-13 (EP121426)
.753	.878	5/8	AA-839-1
		11/16	AA-839-3
		3/4	AA-839-6
		1	AA-839-13
		1-1/8	AA-839-2
		1-1/4	AA-839-4
		1-1/2	AA-839-7
.753	.878	1/2	B-1214-4
		5/8	B-1214-5
		3/4	B-1214-6
		7/8	B-1214-7
		1	B-1214-8
		1-1/4	B-1214-10
		1-1/2	B-1214-12
		1-5/8	B-1214-13
3/4 x 15/16 NOMINAL			
.7515	.940	3/4	AA-921-5
		1	AA-921-4
		1-1/8	AA-921-2
		1-1/4	AA-921-3
		1-1/2	AA-921-1
		1-3/4	AA-921
		2	AA-921-6
.752	.9415	1/2	P-76-4 (EP121508)
		5/8	P-76-5 (EP121510)
		3/4	P-76-6 (EP121512)
		7/8	P-76-7 (EP121514)
		1	P-76-8 (EP121516)
		1-1/8	P-76-9 (EP121518)
		1-1/4	P-76-10 (EP121520)
		1-1/2	P-76-12 (EP121524)
		1-5/8	P-76-13 (EP121526)
		1-3/4	P-76-14 (EP121528)
		2	P-76-16 (EP121532)



ID	OD	LENGTH	REF. NO.		
3/4 x 15/16 NOMINAL Cont.					
.752	.942	1	AA-912		
		1-1/4	AA-912-4		
		1-3/8	AA-912-1		
		1-1/2	AA-912-6		
		1-5/8	AA-912-2		
.753	.9405	1-3/4	AA-912-7		
		1/2	B-1215-4		
		5/8	B-1215-5		
		3/4	B-1215-6		
		7/8	B-1215-7		
.752	1.0025	1	AA-1005-5		
		1-1/8	AA-1005-7		
		1-1/4	AA-1005-3		
		1-1/2	AA-1005-2		
		3/8	AA-1049-18		
		1/2	AA-1049-14		
		3/4	AA-1049-1		
		7/8	AA-1049-2		
		1	AA-1049-3		
		1-1/8	AA-1049-16		
1-1/4	AA-1049				
1-3/8	AA-1049-17				
1-1/2	AA-1049-4				
1-3/4	AA-1049-9				
2	AA-1049-5				
2-1/8	AA-1049-11				
2-1/4	AA-1049-12				
2-1/2	AA-1049-6				
.752	1.004	1/2	P-77-4 (EP121608)		
		5/8	P-77-5 (EP121610)		
		3/4	P-77-6 (EP121612)		
		7/8	P-77-7 (EP121614)		
		1	P-77-8 (EP121616)		
		1-1/8	P-77-9 (EP121618)		
		1-1/4	P-77-10 (EP121620)		
		1-1/2	P-77-12 (EP121624)		
		1-3/4	P-77-14 (EP121628)		
		2	P-77-16 (EP121632)		
		2-1/2	P-77-20 (EP121640)		
		3/4 x 1 NOMINAL			
		3/4 x 1-1/16 NOMINAL			
		.751	1.0645	1	AA-1039
				1-1/4	AA-1039-2
3/4 x 1-1/8 NOMINAL					
.750	1.129	3/4	AA-1130-3		
		1-1/4	AA-1130		
.752	1.129	1/2	P-78-4 (EP121808)		
		3/4	P-78-6 (EP121812)		
		1	P-78-8 (EP121816)		
		1-1/4	P-78-10 (EP121820)		
		1-1/2	P-78-12 (EP121824)		
		1-3/4	P-78-14 (EP121828)		
		2	P-78-16 (EP121832)		
		.753	1.128	3/4	AA-1106-2
				1	AA-1106-4
				1-1/4	AA-1106-3
1-3/8	AA-1106-13				
1-1/2	AA-1106				
1-3/4	AA-1106-1				
.753	1.128	1/2	B-1218-4		
		3/4	B-1218-6		
		1	B-1218-8		
		1-1/4	B-1218-10		
		1-1/2	B-1218-12		
		1-3/4	B-1218-14		
		2	B-1218-16		

ID	OD	LENGTH	REF. NO.		
.753	1.003	3/4	AA-1043-6		
		7/8	AA-1043-8		
		1	AA-1043-9		
		1-1/4	AA-1043		
.753	1.003	1-1/2	AA-1043-4		
		1/2	B-1216-4		
		5/8	B-1216-5		
		3/4	B-1216-6		
.753	1.003	7/8	B-1216-7		
		1	B-1216-8		
		1-1/8	B-1216-9		
		1-1/4	B-1216-10		
		1-1/2	B-1216-12		
		1-3/4	B-1216-14		
		2	B-1216-16		
		2-1/2	B-1216-20		
		3/4 x 1-1/16 NOMINAL			
		.751	1.0645	1	AA-1039
1-1/4	AA-1039-2				
3/4 x 1-1/8 NOMINAL					
.750	1.129	3/4	AA-1130-3		
		1-1/4	AA-1130		
.752	1.129	1/2	P-78-4 (EP121808)		
		3/4	P-78-6 (EP121812)		
		1	P-78-8 (EP121816)		
		1-1/4	P-78-10 (EP121820)		
		1-1/2	P-78-12 (EP121824)		
		1-3/4	P-78-14 (EP121828)		
		2	P-78-16 (EP121832)		
		.753	1.128	3/4	AA-1106-2
				1	AA-1106-4
				1-1/4	AA-1106-3
1-3/8	AA-1106-13				
1-1/2	AA-1106				
1-3/4	AA-1106-1				
.753	1.128	1/2	B-1218-4		
		3/4	B-1218-6		
		1	B-1218-8		
		1-1/4	B-1218-10		
		1-1/2	B-1218-12		
		1-3/4	B-1218-14		
		2	B-1218-16		

ID	OD	LENGTH	REF. NO.
3/4 x 1-1/4 NOMINAL			
.752	1.254	3/4	P-79-6 (EP122012)
		1	P-79-8 (EP122016)
		1-1/4	P-79-10 (EP122020)
		1-1/2	P-79-12 (EP122024)
		1	AA-1257
.753	1.253	1-1/4	AA-1257-1
		1-1/2	AA-1257-2
		3/4	B-1220-6
.753	1.253	1	B-1220-8
		1-1/4	B-1220-10
		1-1/2	B-1220-12
		1-3/4	B-1220-14
		2	B-1220-16
13/16 x 1 NOMINAL			
.8135	1.003	1	AA-1056-5
		1-1/4	AA-1056-3
		1-3/4	AA-1056
.8145	1.003	7/8	AA-1041-2
		1	AA-1041-5
		1-1/4	AA-1041-6
.8155	1.003	3/4	B-1316-6
		1	B-1316-8
		1-1/4	B-1316-10
		1-1/2	B-1316-12
		1-3/4	B-1316-14
2	B-1316-16		
7/8 x 1 NOMINAL			
.876	1.003	3/8	AA-1008-11
		7/16	AA-1008-14
		1/2	AA-1008-9
		5/8	AA-1008-13
		3/4	AA-1008-5
		1	AA-1008-6
		1-1/4	AA-1008-1
		1-1/2	AA-1008-2
		1-3/4	AA-1008-10
		.877	1.003	5/8	AA-1009-5
3/4	AA-1009-8		
1	AA-1009-3		
1-1/8	AA-1009		
1-1/4	AA-1009-2		
.877	1.004	3/4	P-87-6 (EP141612)
		7/8	P-87-7 (EP141614)
		1	P-87-8 (EP141616)
		1-1/4	P-87-10 (EP141620)

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ID	OD	LENGTH	REF. NO.
7/8 x 1 NOMINAL Cont.			
.877	1.004	1-1/2	P-87-12 (EP141624)
		1-3/4	P-87-14 (EP141628)
.878	1.003	3/4	B-1416-6
		7/8	B-1416-7
		1	B-1416-8
		1-1/4	B-1416-10
		1-1/2	B-1416-12
7/8 x 1-1/16 NOMINAL			
.877	1.065	3/4	AA-1051-3
		1-1/4	AA-1051-2
.877	1.0665	1	P-88-8 (EP141716)
		1-1/4	P-88-10 (EP141720)
7/8 x 1-1/8 NOMINAL			
.876	1.128	3/4	AA-1108
		7/8	AA-1108-15
		1	AA-1108-1
		1-1/8	AA-1108-2
		1-1/4	AA-1108-7
		1-3/8	AA-1108-16
		1-1/2	AA-1108-12
		1-3/4	AA-1108-10
		2	AA-1108-3
		2-1/4	AA-1108-11
		2-1/2	AA-1108-5
		2-3/4	AA-1108-6
.877	1.129	3/4	P-89-6 (EP141812)
		7/8	P-89-7 (EP141814)
		1	P-89-8 (EP141816)
		1-1/8	P-89-9 (EP141818)
		1-1/4	P-89-10 (EP141820)
		1-3/8	P-89-11 (EP141822)
		1-1/2	P-89-12 (EP141824)
		1-3/4	P-89-14 (EP141828)
		2	P-89-16 (EP141832)
		2-1/4	P-89-18 (EP141836)
		2-1/2	P-89-20 (EP141840)

ID	OD	LENGTH	REF. NO.
.878	1.1275	1	AA-1104-2
		1-1/4	AA-1104-5
		1-3/8	AA-1104-4
		1-1/2	AA-1104-3
.878	1.128	3/4	B-1418-6
		7/8	B-1418-7
		1	B-1418-8
		1-1/8	B-1418-9
		1-1/4	B-1418-10
		1-3/8	B-1418-11
		1-1/2	B-1418-12
		1-3/4	B-1418-14
		2	B-1418-16
		2-1/2	B-1418-20
7/8 x 1-1/4 NOMINAL			
.877	1.252	1	AA-1203-3
		1-1/4	AA-1203
		1-1/2	AA-1203-1
.877	1.254	3/4	P-90-6 (EP142012)
		1	P-90-8 (EP132016)
		1-1/4	P-90-10 (EP142020)
		1-1/2	P-90-12 (EP142024)
		2	P-90-16 (EP142032)
.878	1.253	3/4	AA-1242-2
		1	AA-1242-3
		1-3/8	AA-1242
.878	1.253	3/4	B-1420-6
		1	B-1420-8
		1-1/4	B-1420-10
		1-1/2	B-1420-12
		2	B-1420-16
15/16 x 1-1/16 NOMINAL			
.940	1.065	3/4	AA-1087-1
		1-1/4	AA-1087
15/16 x 1-3/16 NOMINAL			
.939	1.1895	7/8	AA-1118-6
		1	AA-1118-4
		1-1/4	AA-1118-2
		1-1/2	AA-1118-5
.9395	1.1915	3/4	P-93-6 (EP151912)
		1	P-93-8 (EP151916)
		1-1/4	P-93-10 (EP151920)
		1-1/2	P-93-12 (EP151924)
		2	P-93-16 (EP151932)

ID	OD	LENGTH	REF. NO.
.9405	1.1905	3/4	B-1519-6
		1	B-1519-8
		1-1/4	B-1519-10
		1-1/2	B-1519-12
		2	B-1519-16
15/16 x 1-1/4 NOMINAL			
.9375	1.253	1	AA-1206-1
		1-1/4	AA-1206-4
		1-1/2	AA-1206-2
.9395	1.254	3/4	P-94-6 (EP152012)
		1	P-94-8 (EP152016)
		1-1/4	P-94-10 (EP152020)
		1-1/2	P-94-12 (EP152024)
		1-3/4	P-94-14 (EP152028)
		2	P-94-16 (EP152032)
.940	1.254	1-1/2	AA-1216-3
		2	AA-1216
.9405	1.253	3/4	B-1520-6
		1	B-1520-8
		1-1/4	B-1520-10
		1-1/2	B-1520-12
		1-3/4	B-1520-14
		2	B-1520-16
1 x 1-1/8 NOMINAL			
1.001	1.128	1/2	AA-1110-8
		3/4	AA-1110-10
		13/16	AA-1110-2
		1	AA-1110-1
		1-1/4	AA-1110-3
		1-3/8	AA-1110-12
		1-1/2	AA-1110
1.003	1.128	3/4	B-1618-6
		1	B-1618-8
		1-1/4	B-1618-10
		1-1/2	B-1618-12
		1-3/4	B-1618-14
		2	B-1618-16
1.003	1.129	3/4	P-100-6 (EP161812)
		1	P-100-8 (EP161816)
		1-1/4	P-100-10 (EP161820)
		1-1/2	P-100-12 (EP161824)
		1-3/4	P-100-14 (EP161828)
		2	P-100-16 (EP161832)

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ID	OD	LENGTH	REF. NO.		
1 x 1-1/8 NOMINAL Cont.					
1.0035	1.128	3/4	AA-1156		
		7/8	AA-1156-4		
		1-1/4	AA-1156-3		
		1-1/2	AA-1156-1		
1 x 1-3/16 NOMINAL					
1.002	1.1895	3/4	AA-1154-2		
		1	AA-1154-1		
		1-1/2	AA-1154-3		
		2	AA-1154		
1.003	1.1915	3/4	P-101-6 (EP161912)		
		1	P-101-8 (EP161916)		
		1-1/4	P-101-10 (EP161920)		
		1-1/2	P-101-12 (EP161924)		
		1-3/4	P-101-14 (EP161928)		
		2	P-101-16 (EP161932)		
		1 x 1-1/4 NOMINAL			
		1.001	1.252	1/2	AA-1212-7
3/4	AA-1212-6				
1	AA-1212-2				
1-1/4	AA-1212-16				
1-1/2	AA-1212-11				
1-3/4	AA-1212-4				
2	AA-1212-3				
2-1/4	AA-1212-5				
2-1/2	AA-1212				
2-7/8	AA-1212-8				
3	AA-1212-14				
1.002	1.252	7/8	AA-1213-6		
		1	AA-1213-3		
		1-1/8	AA-1213-10		
		1-1/4	AA-1213-12		
		1-1/2	AA-1213-1		
		1-3/4	AA-1213-2		
		2	AA-1213		
		2-1/2	AA-1213-14		
3	AA-1213-15				
1.003	1.253	3/4	AA-1232-6		
		1	AA-1232		
		1-1/8	AA-1232-2		
		1-1/4	AA-1232-3		
		1-1/2	AA-1232-7		
		1-3/4	AA-1232-8		
		2	AA-1232-4		
		2-1/2	AA-1232-5		

ID	OD	LENGTH	REF. NO.		
1.003	1.253	3/4	B-1620-6		
		7/8	B-1620-7		
		1	B-1620-8		
		1-1/4	B-1620-10		
		1-3/8	B-1620-11		
		1-1/2	B-1620-12		
		1-3/4	B-1620-14		
		2	B-1620-16		
		2-1/4	B-1620-18		
		2-1/2	B-1620-20		
		3	B-1620-24		
		1.003	1.254	1/2	P-102-4 (EP162008)
				3/4	P-102-6 (EP162012)
7/8	P-102-7 (EP162014)				
1	P-102-8 (EP162016)				
1-1/4	P-102-10 (EP162020)				
1-3/8	P-102-11 (EP162022)				
1-1/2	P-102-12 (EP162024)				
1-3/4	P-102-14 (EP162028)				
2	P-102-16 (EP162032)				
2-1/4	P-102-18 (EP162036)				
2-1/2	P-102-20 (EP162040)				
1.005	1.2525	1	AA-1204-7		
		1-1/4	AA-1204-2		
		1-3/8	AA-1204-1		
		1-1/2	AA-1204		
		2	AA-1204-3		
		2-1/4	AA-1204-5		
2-1/2	AA-1204-4				
1 x 1-5/16 NOMINAL					
1.001	1.316	1	AA-1304-3		
		1-1/2	AA-1304		
		1-3/4	AA-1304-4		
		2	AA-1304-6		
1.002	1.315	1	AA-1325-10		
		1-1/4	AA-1325-8		
		1-1/2	AA-1325-4		
		1-5/8	AA-1325-7		
		1-3/4	AA-1325-5		
		2	AA-1325		
		2-1/2	AA-1325-1		
		2-3/4	AA-1325-3		
3	AA-1325-2				

ID	OD	LENGTH	REF. NO.		
1.003	1.3155	1	B-1621-8		
		1-1/4	B-1621-10		
		1-1/2	B-1621-12		
		1-3/4	B-1621-14		
		2	B-1621-16		
		2-1/2	B-1621-20		
1.003	1.3165	3	B-1621-24		
		1	P-103-8 (EP162116)		
		1-1/4	P-103-10 (EP162120)		
		1-1/2	P-103-12 (EP162124)		
		1-3/4	P-103-14 (EP162128)		
		2	P-103-16 (EP162132)		
1.003	1.3165	2-1/2	P-103-20 (EP162140)		
		3	P-103-24 (EP162148)		
		1 x 1-3/8 NOMINAL			
		1.001	1.378	3/4	AA-1334-3
				1-1/4	AA-1334-5
				1-1/2	AA-1334-1
2	AA-1334-2				
1.003	1.377	1	AA-1310-2		
		1-1/8	AA-1310-1		
		1-1/4	AA-1310-4		
		1-3/8	AA-1310		
		1-1/2	AA-1310-5		
		1-3/4	AA-1310-8		
1.003	1.378	2	AA-1310-3		
		2-1/4	AA-1310-6		
		1	B-1622-8		
		1-1/4	B-1622-10		
		1-1/2	B-1622-12		
		1-3/4	B-1622-14		
1.003	1.378	2	B-1622-16		
		2-1/2	B-1622-20		
		3	B-1622-24		
		1 x 1-3/8 NOMINAL			
		1.003	1.379	1	P-104-8 (EP162216)
				1-1/4	P-104-10 (EP162222)
1-1/2	P-104-12 (EP162224)				
1-3/4	P-104-14 (EP162228)				
1.003	1.379	2	P-104-16 (EP162232)		
		2-1/2	P-104-20 (EP162240)		

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ID	OD	LENGTH	REF. NO.
1 x 1-1/2 NOMINAL			
1.003	1.503	1	B-1624-8
		1-1/4	B-1624-10
		1-1/2	B-1624-12
		2	B-1624-16
		2-1/2	B-1624-20
1.003	1.504	3	B-1624-24
		1	P-105-8 (EP162416)
		1-1/4	P-105-10 (EP162420)
		1-1/2	P-105-12 (EP162424)
		1-3/4	P-105-14 (EP162428)
1.003	1.504	2	P-105-16 (EP162432)
		2-1/2	P-105-20 (EP162440)
		3	P-105-24 (EP162448)
		1	AA-1511-7
		1-1/4	AA-1511-8
1.0035	1.5045	1-1/2	AA-1511-5
		2	AA-1511-1
		1-1/16 x 1-5/16 NOMINAL	
1.064	1.317	3/4	AA-1307-2
		1	AA-1307-4
		1-1/4	AA-1307-5
		1-1/2	AA-1307-1
1.0655	1.3155	1	B-1721-8
		1-1/2	B-1721-12
		2	B-1721-16
		2-1/2	B-1721-20
1.0655	1.3165	1	P-106-8
		1-1/2	P-106-12
		2	P-106-16
1-1/8 x 1-1/4 NOMINAL			
1.1245	1.2535	7/8	AA-1214-6
		1	AA-1214-3
		1-1/8	AA-1214-2
		1-1/4	AA-1214-1
		1-1/2	AA-1214-8
1.127	1.2525	1-1/4	AA-1250-2
		1-1/2	AA-1250-3
1.128	1.254	1	P-112-8 (EP182016)
		1-1/4	P-112-10 (EP182020)
		1-1/2	P-112-12 (EP182024)

ID	OD	LENGTH	REF. NO.
1-1/8 x 1-5/16 NOMINAL			
1.1265	1.3155	1	AA-1317
		1-1/4	AA-1317-1
1.128	1.3155	1	B-1821-8
		1-1/4	B-1821-10
		1-1/2	B-1821-12
		2	B-1821-16
1.128	1.3165	1	P-113-8 (EP182116)
		1-1/4	P-113-10 (EP182120)
		1-1/2	P-113-12 (EP182124)
		1-3/4	P-113-14 (EP182128)
1.128	1.3165	2	P-113-16 (EP182132)
		1-1/8 x 1-3/8 NOMINAL	
1.127	1.377	1/2	AA-1332-6
		3/4	AA-1332-1
		1	AA-1332-4
		1-1/4	AA-1332-9
		1-1/2	AA-1332-7
		1-3/4	AA-1332-10
		2	AA-1332
		2-1/4	AA-1332-11
1.127	1.377	2-1/2	AA-1332-2
		3	AA-1332-8
		1-1/8 x 1-3/8 NOMINAL	
1.128	1.378	3/4	B-1822-6
		1	B-1822-8
		1-1/4	B-1822-10
		1-1/2	B-1822-12
		1-3/4	B-1822-14
		2	B-1822-16
		2-1/2	B-1822-20
3	B-1822-24		
1.128	1.379	3/4	P-114-6 (EP182212)
		1	P-114-8 (EP182216)
		1-1/4	P-114-10 (EP182220)
		1-1/2	P-114-12 (EP182224)
		1-3/4	P-114-14 (EP182228)
1.128	1.379	2	P-114-16 (EP182232)
		2-1/2	P-114-20 (EP182240)
		3	P-114-24 (EP182248)
1.129	1.379	1/2	AA-1319-10
		1	AA-1319-3
		1-1/4	AA-1319
		1-1/2	AA-1319-13
1.129	1.379	1-3/4	AA-1319-5

ID	OD	LENGTH	REF. NO.
1.129	1.379	2	AA-1319-1
		2-1/4	AA-1319-12
		2-1/2	AA-1319-2
1-1/8 x 1-1/2 NOMINAL			
1.126	1.503	1	AA-1509-4
		1-1/2	AA-1509-1
		1-3/4	AA-1509-6
		2	AA-1509
		2-1/2	AA-1509-3
1.127	1.5035	1	AA-1502
		1-1/4	AA-1502-2
		1-1/2	AA-1502-3
1.128	1.504	1	P-115-8 (EP182416)
		1-1/4	P-115-10 (EP182420)
		1-1/2	P-115-12 (EP182424)
		1-3/4	P-115-14 (EP182428)
		2	P-115-16 (EP182432)
		2-1/2	P-115-20 (EP182440)
1-3/16 x 1-5/16 NOMINAL			
1.189	1.3155	1	AA-1339-2
		1-1/4	AA-1339
1-3/16 x 1-3/8 NOMINAL			
1.189	1.379	1-1/2	AA-1324-1
		1-3/4	AA-1324
1-3/16 x 1-7/16 NOMINAL			
1.1885	1.441	1-1/4	AA-1403-3
		1-1/2	AA-1403-7
		2	AA-1403-10
1.1905	1.441	1-1/4	B-1923-10
		2	B-1923-16
		2-1/2	B-1923-20
		3	B-1923-24
1.1905	1.441	1-1/4	P-118-10 (EP192320)
		1-1/2	P-118-12 (EP192324)
		2	P-118-16 (EP192332)
		2-1/2	P-118-20 (EP192340)
		3	P-118-24 (EP192348)
1-3/16 x 1-1/2 NOMINAL			
1.190	1.504	1	AA-1523-2
		1-1/2	AA-1523-5
		2	AA-1523

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ID	OD	LENGTH	REF. NO.
1-3/16 x 1-1/2 NOMINAL Cont.			
1.190	1.504	2-1/2	AA-1523-3
1.1905	1.503	1	B-1924-8
		1-1/4	B-1924-10
		1-1/2	B-1924-12
		1-3/4	B-1924-14
		2	B-1924-16
		2-1/2	B-1924-20
	3	B-1924-24	
1.1905	1.504	1	P-119-8 (EP192416)
		1-1/4	P-119-10 (EP192420)
		1-1/2	P-119-12 (EP192424)
		1-3/4	P-119-14 (EP192428)
		2	P-119-16 (EP192432)
		2-1/2	P-119-20 (EP192440)
		3	P-119-24 (EP192448)
1.193	1.504	1	AA-1504-6
		1-1/2	AA-1504-1
1-1/4 x 1-7/16 NOMINAL			
1.2515	1.4405	1-1/4	AA-1407-4
		1-1/2	AA-1407-5
		1-3/4	AA-1407
		2	AA-1407-6
		2-1/2	AA-1407-8
1-1/4 x 1-1/2 NOMINAL			
1.250	1.502	3/4	AA-1517-4
		1-1/4	AA-1517-6
		1-5/8	AA-1517-1
1.252	1.502	1/2	AA-1512-12
		5/8	AA-1512-11
		3/4	AA-1512-14
		7/8	AA-1512-7
		1	AA-1512-15
		1-1/4	AA-1512-16
		1-3/8	AA-1512-3
		1-1/2	AA-1512-2
		1-3/4	AA-1512-17
		1-7/8	AA-1512-1
		2	AA-1512-5
2-1/2	AA-1512-13		
1.253	1.503	1	B-2024-8
		1-1/8	B-2024-9
		1-1/4	B-2024-10
		1-3/8	B-2024-11

ID	OD	LENGTH	REF. NO.		
1.253	1.503	1-1/2	B-2024-12		
		1-5/8	B-2024-13		
		1-3/4	B-2024-14		
		2	B-2024-16		
		2-1/4	B-2024-18		
		2-1/2	B-2024-20		
	3	B-2024-24			
1.2535	1.504	1	AA-1528		
		1-1/4	AA-1528-3		
		1-1/2	AA-1528-4		
1.2535	1.504	1/2	P-125-4 (EP202408)		
		5/8	P-125-5 (EP202410)		
		3/4	P-125-6 (EP202412)		
		7/8	P-125-7 (EP202414)		
		1	P-125-8 (EP202416)		
		1-1/8	P-125-9 (EP202418)		
		1-1/4	P-125-10 (EP202420)		
		1-3/8	P-125-11 (EP202422)		
		1-1/2	P-125-12 (EP202424)		
		1-5/8	P-125-13 (EP202426)		
		1-3/4	P-125-14 (EP202428)		
1.258	1.504	1	AA-1505-11		
		1-1/2	AA-1505-1		
		1-7/8	P-125-15 (EP202430)		
		2	P-125-16 (EP202432)		
		2-1/4	P-125-18 (EP202436)		
		2-1/2	P-125-20 (EP202440)		
		3	P-125-24 (EP202448)		
		1-1/4 x 1-9/16 NOMINAL			
		1.252	1.565	1-1/4	AA-1506-12
				1-1/2	AA-1506-6
				1-3/4	AA-1506
2	AA-1506-7				
2-1/4	AA-1506-8				
1-1/4 x 1-5/8 NOMINAL					
1.250	1.627	1-1/2	AA-1602		
1.252	1.6275	1	AA-1606-9		
		1-1/4	AA-1606		
		1-1/2	AA-1606-7		

ID	OD	LENGTH	REF. NO.
1.252	1.6275	1-5/8	AA-1606-11
		1-3/4	AA-1606-1
		2	AA-1606-3
		2-1/2	AA-1606-5
		3	AA-1606-4
1.253	1.628	1	B-2026-8
		1-1/4	B-2026-10
		1-1/2	B-2026-12
		1-3/4	B-2026-14
		2	B-2026-16
		2-1/2	B-2026-20
	3	B-2026-24	
1.2535	1.630	1	P-126-8 (EP202616)
		1-1/4	P-126-10 (EP202620)
		1-1/2	P-126-12 (EP202624)
		1-3/4	P-126-14 (EP202628)
		2	P-126-16 (EP202632)
		2-1/2	P-126-20 (EP202640)
	3	P-126-24 (EP202648)	
1.254	1.629	1-1/2	AA-1604
		1-3/4	AA-1604-2
1-1/4 x 1-3/4 NOMINAL			
1.2535	1.755	1-3/4	P-127-14 (EP202828)
		2	P-127-16 (EP202832)
		2-1/2	P-127-20 (EP202840)
		3	P-127-24 (EP202848)
1.254	1.753	1-1/2	AA-1715-6
		2	AA-1715-2
		3	AA-1715-3
1-5/16 x 1-1/2 NOMINAL			
1.3155	1.503	1	AA-1526-4
		1-1/4	AA-1526
		1-1/2	AA-1526-2
		2	AA-1526-3
1-5/16 x 1-5/8 NOMINAL			
1.3155	1.628	1-1/4	B-2126-10
		1-1/2	B-2126-12
		2	B-2126-16
		2-1/2	B-2126-20
	3	B-2126-24	
1.3155	1.629	1-1/2	AA-1611-5
		2	AA-1611-2
		2-1/2	AA-1611

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ID	OD	LENGTH	REF. NO.
1-5/16 x 1-5/8 NOMINAL Cont.			
1.316	1.630	1-1/4	P-131-10 (EP212620)
		1-1/2	P-131-12 (EP212624)
		2	P-131-16 (EP212632)
		2-1/2	P-131-20 (EP212640)
		3	P-131-24 (EP212648)
1-3/8 x 1-9/16 NOMINAL			
1.3745	1.5655	1-1/4	AA-1507-2
		1-1/2	AA-1507
1-3/8 x 1-5/8 NOMINAL			
1.376	1.628	1	AA-1608-10
		1-1/8	AA-1608-1
		1-1/4	AA-1608-11
		1-1/2	AA-1608-12
		1-3/4	AA-1608-13
		2	AA-1608
1.378	1.628	2-1/2	AA-1608-3
		1	B-2226-8
		1-1/2	B-2226-12
		2	B-2226-16
		2-1/2	B-2226-20
1.379	1.628	3	B-2226-24
		1-1/2	AA-1616-3
		2	AA-1616-5
		2-1/2	AA-1616-7
1-3/8 x 1-3/4 NOMINAL			
1.378	1.753	1	B-2228-8
		1-1/2	B-2228-12
		2	B-2228-16
		2-1/2	B-2228-20
		3	B-2228-24
1.3785	1.755	1	P-138-8 (EP222816)
		1-1/2	P-138-12 (EP222824)
		2	P-138-16 (EP222832)
		2-1/2	P-138-20 (EP222840)
		3	P-138-24 (EP222848)
1.380	1.753	1-1/2	AA-1708-5
		2	AA-1708-2
		2-1/2	AA-1708

ID	OD	LENGTH	REF. NO.		
1-7/16 x 1-5/8 NOMINAL					
1.438	1.628	1	AA-1609-2		
		1-1/2	AA-1609-4		
		2	AA-1609		
		2-1/4	AA-1609-6		
1.441	1.630	1	P-143-8 (EP232616)		
		1-1/2	P-143-12 (EP232624)		
		2	P-143-16 (EP232632)		
1-7/16 x 1-3/4 NOMINAL					
1.4405	1.753	1	B-2328-8		
		1-1/4	B-2328-10		
		1-1/2	B-2328-12		
		1-3/4	B-2328-14		
		2	B-2328-16		
		2-1/2	B-2328-20		
1.441	1.755	3	B-2328-24		
		1	P-144-8 (EP232816)		
		1-1/4	P-144-10 (EP232820)		
		1-1/2	P-144-12 (EP232824)		
		1-3/4	P-144-14 (EP232828)		
1.4425	1.7535	2	P-144-16 (EP232832)		
		2-1/2	P-144-20 (EP232840)		
		3	P-144-24 (EP232848)		
		7/8	AA-1703-1		
		1-1/8	AA-1703-14		
1.507	1.691	1-1/4	AA-1703-4		
		1-1/2	AA-1703-6		
		1-3/4	AA-1703-3		
		1-7/8	AA-1703		
		2	AA-1703-7		
		2-1/4	AA-1703-10		
		2-1/2	AA-1703-5		
		1-1/2 x 1-11/16 NOMINAL			
		1.507	1.691	3/4	AA-1612-4
				1	AA-1612-1
1-1/2 x 1-3/4 NOMINAL					
1.503	1.753	1	B-2428-8		
		1-1/4	B-2428-10		
		1-1/2	B-2428-12		
		2	B-2428-16		
		2-1/2	B-2428-20		
		3	B-2428-24		
1.503	1.754	1/2	AA-1704-20		
		5/8	AA-1704-21		

ID	OD	LENGTH	REF. NO.		
1.503	1.754	3/4	AA-1704-16		
		7/8	AA-1704-4		
		1	AA-1704-15		
		1-1/8	AA-1704-17		
		1-1/4	AA-1704-11		
		1-3/8	AA-1704-5		
		1-1/2	AA-1704		
		1-3/4	AA-1704-3		
		2	AA-1704-2		
		2-1/4	AA-1704-7		
		2-1/2	AA-1704-8		
		3	AA-1704-9		
		3-1/2	AA-1704-19		
1.504	1.755	3/4	P-150-6 (EP242812)		
		7/8	P-150-7 (EP242814)		
		1	P-150-8 (EP242816)		
		1-1/4	P-150-10 (EP242820)		
		1-3/8	P-150-11 (EP242822)		
		1-1/2	P-150-12 (EP242824)		
		1-3/4	P-150-14 (EP242828)		
		2	P-150-16 (EP242832)		
		2-1/4	P-150-18 (EP242836)		
		2-1/2	P-150-20 (EP242840)		
		3	P-150-24 (EP242848)		
		1-1/2 x 1-13/16 NOMINAL			
		1.502	1.815	1	AA-1801-1
1-5/8	AA-1801				
1.503	1.816	1-1/2	B-2429-12		
		3	B-2429-24		
1.504	1.8175	1	P-151-8 (EP242916)		
		1-1/2	P-151-12 (EP242924)		
		1-5/8	P-151-13 (EP242926)		
1-1/2 x 1-7/8 NOMINAL					
1.503	1.878	1-1/2	AA-1807-9		
		1-3/4	AA-1807-10		
		2	AA-1807		
		2-1/2	AA-1807-11		
		2-3/4	AA-1807-1		
		3	AA-1807-2		

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ID	OD	LENGTH	REF. NO.
1-15/16 x 2-5/16 NOMINAL Cont.			
1.9405	2.3165	2	AA-2306-3
		3	AA-2306-5
		4	AA-2306
1.9415	2.3175	2	P-193-16 (EP313732)
		2-1/2	P-193-20 (EP313740)
		3	P-193-24 (EP313748)
		4	P-193-32 (EP313764)
1-15/16 x 2-7/16 NOMINAL			
1.942	2.4415	1-1/2	AA-2403-1
		2	AA-2403-2
2 x 2-1/4 NOMINAL			
2.003	2.254	3/4	AA-2203-5
		1	AA-2203-6
		1-1/2	AA-2203-7
		2	AA-2203
		2-1/2	AA-2203-9
	3	AA-2203-10	
2.004	2.255	1	P-200-8 (EP323616)
		1-1/2	P-200-12 (EP323624)
		2	P-200-16 (EP323632)
		2-1/2	P-200-20 (EP323640)
		3	P-200-24 (EP323648)
2 x 2-3/8 NOMINAL			
2.003	2.379	1-1/8	AA-2304-6
		1-1/2	AA-2304-7
		1-3/4	AA-2304
		2	AA-2304-1
		2-1/2	AA-2304-2
	3	AA-2304-3	
	3-1/2	AA-2304-4	
	4	AA-2304-5	
2.003	2.379	1-3/4	B-3238-14
		2	B-3238-16
		2-3/4	B-3238-22
		3	B-3238-24
	4	B-3238-32	
2.004	2.380	1-1/2	P-201-12 (EP323824)
		1-3/4	P-201-14 (EP323828)
		2	P-201-16 (EP323832)
		2-1/2	P-201-20 (EP323840)

ID	OD	LENGTH	REF. NO.
2.004	2.380	2-3/4	P-201-22 (EP323844)
		3	P-201-24 (EP323848)
		3-1/2	P-201-28 (EP323856)
		4	P-201-32 (EP323864)
2 x 2-1/2 NOMINAL			
2.003	2.503	1-1/2	AA-2501-1
		2	AA-2501-2
		2-1/2	AA-2501-3
	3	AA-2501	
2.004	2.505	1	P-202-8 (EP324016)
		1-1/2	P-202-12 (EP324024)
		2	P-202-16 (EP324032)
		2-1/2	P-202-20 (EP324040)
	3	P-202-24 (EP324048)	
	3-1/2	P-202-28 (EP324056)	
	4	P-202-32 (EP324064)	
2-3/16 x 2-3/8 NOMINAL			
2.190	2.379	1-1/2	AA-2303-1
2-1/4 x 2-5/8 NOMINAL			
2.254	2.6295	2	AA-2605-3
		3	AA-2605-5
		3-1/2	AA-2605
		4-1/2	AA-2605-2
2.254	2.631	2	P-225-16 (EP364232)
		2-1/2	P-225-20 (EP364240)
		3	P-225-24 (EP364248)
2-1/4 x 2-3/4 NOMINAL			
2.253	2.753	1-1/2	AA-2703-1
		2	AA-2703-2
		3	AA-2703
2.254	2.754	2	B-3644-16
		3	B-3644-24
		4	B-3644-32
2.254	2.756	2	P-226-16 (EP364432)
		3	P-226-24 (EP364448)

ID	OD	LENGTH	REF. NO.
2-3/8 x 2-5/8 NOMINAL			
2.377	2.6295	1-1/4	AA-2602-3
		1-5/8	AA-2602
2-3/8 x 2-3/4 NOMINAL			
2.379	2.753	2	AA-2701-2
		2-1/2	AA-2701-6
		3	AA-2701
2.379	2.756	2	P-237-16 (EP384432)
		2-1/2	P-237-20 (EP384440)
		3	P-237-24 (EP384448)
2-1/2 x 2-3/4 NOMINAL			
2.505	2.754	2	AA-2702-5
		2-1/2	AA-2702-4
		3	AA-2702-1
2.505	2.756	2	P-250-16 (EP404432)
		3	P-250-24 (EP404448)
		4	P-250-32 (EP404464)
2-1/2 x 2-7/8 NOMINAL			
2.504	2.880	2-1/4	AA-2803-1
		2-1/2	AA-2803-3
		3	AA-2803-2
2.505	2.881	2-1/4	P-251-18 (EP404636)
		2-1/2	P-251-20 (EP404640)
		3	P-251-24 (EP404648)
2-1/2 x 3 NOMINAL			
2.504	3.005	2	AA-3005-7
		2-1/2	AA-3005-4
		3	AA-3005-1
		4	AA-3005
2.505	3.006	2	P-252-16 (EP404832)
		3	P-252-24 (EP404848)
		4	P-252-32 (EP404864)

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ID	OD	LENGTH	REF. NO.
2-3/4 x 3 NOMINAL			
2.753	3.005	1-1/2	AA-3006-1
		2-1/2	AA-3006
2-3/4 x 3-1/8 NOMINAL			
2.753	3.129	1-1/4	AA-3100-7
		2-3/4	AA-3100
		4	AA-3100-11
2-3/4 x 3-1/4 NOMINAL			
2.752	3.254	1-1/2	AA-3201-1
		2	AA-3201-4
		3	AA-3201-7
		4	AA-3201
2.755	3.255	2	B-4452-16
		3	B-4452-24
		4	B-4452-32
2.755	3.257	2	P-275-16 (EP445232)
		3	P-275-24 (EP445248)
		4	P-275-32 (EP445264)
		2-15/16 x 3-5/16 NOMINAL	
2.940	3.315	3	AA-3301-3

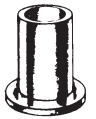
ID	OD	LENGTH	REF. NO.
3 x 3-1/4 NOMINAL			
3.002	3.255	1-1/4	AA-3200-5
		2	AA-3200
		3	AA-3200-2
3.006	3.257	2	P-300-16 (EP485232)
		3	P-300-24 (EP485248)
		3 x 3-1/2 NOMINAL	
3.004	3.505	2-1/2	AA-3502-7
		3	AA-3502-8
		4	AA-3502-3
		3.004	3.505	2	B-4856-16
3	B-4856-24		
4	B-4856-32		
3.006	3.507	2	P-301-16 (EP485632)
		2-1/2	P-301-20 (EP485640)
		3	P-301-24 (EP485648)
		4	P-301-32 (EP485664)

ID	OD	LENGTH	REF. NO.
3-1/4 x 3-5/8 NOMINAL			
3.253	3.628	4	AA-3600-5
3-1/2 x 4 NOMINAL			
3.5035	4.004	2	AA-4000-3
		3	AA-4000-5
		3-1/2	AA-4000-6
		4	AA-4000
3.507	4.008	3	P-350-24 (EP566448)
		3-1/2	P-350-28 (EP566456)
		4	P-350-32 (EP566464)
		4 x 4-1/2 NOMINAL	
4.0035	4.504	4	AA-4500
		6	AA-4500-2
4.008	4.509	4	P-400-32 (EP647264)
4 x 4-5/8 NOMINAL			
4.003	4.628	4	AA-4600-5
5 x 5-3/4 NOMINAL			
5.004	5.755	2	AA-5700-1

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ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
1/8 x 1/4 NOMINAL					
.126	.252	1/4 3/8	5/16	1/16	FF-207-2 FF-207-3
1/8 x 5/16 NOMINAL					
.127	.315	1/4 3/8	3/8	3/64	FB-25-2 FB-25-3
3/16 x 5/16 NOMINAL					
.187	.313	1/4 3/8	3/8	1/16	FF-313-1 FF-313-2
.189	.3145	1/8 1/4 3/8	3/8	3/64	FB-35-1 FB-35-2 FB-35-3
.1895	.314	3/16 1/4 5/16 3/8 1/2	7/16	1/16	FF-303-1 FF-303-3 FF-303-2 FF-303 FF-303-4
.1895	.3155	3/8	7/16	1/16	FL-19-3 (EF030506)
3/16 x 3/8 NOMINAL					
.1895	.3765	3/8 1/2	7/16	1/16	FF-307 FF-307-2
1/4 x 3/8 NOMINAL					
.250	.381	3/16 1/4 5/16 3/8 7/16 1/2 9/16 11/16	1/2	1/16	FF-310 FF-310-3 FF-310-4 FF-310-1 FF-310-5 FF-310-2 FF-310-7 FF-310-10
.252	.377	1/4 3/8 1/2 5/8 3/4	1/2	3/64	FB-46-2 FB-46-3 FB-46-4 FB-46-5 FB-46-6
.252	.3775	3/8	15/32	3/64	FF-300
.252	.3775	1/4 3/8 1/2	15/32	1/16	FF-312 FF-312-1 FF-312-2
.252	.378	1/4 3/8 1/2 5/8	1/2	1/16	FL-26-2 (EF040604) FL-26-3 (EF040606) FL-26-4 (EF040608) FL-26-5 (EF040610)

ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
.252	.378	3/4	1/2	1/16	FL-26-6 (EF040612)
.253	.377	1/2	1/2	1/16	FF-375-1
1/4 x 7/16 NOMINAL					
.251	.4395	1/2	1/2	1/16	FF-435-1
1/4 x 1/2 NOMINAL					
.252	.503	5/8 3/4	5/8	1/16	FF-565-2 FF-565-3
5/16 x 3/8 NOMINAL					
.314	.377	3/8	1/2	3/64	FB-56-3
5/16 x 7/16 NOMINAL					
.3125	.440	3/8 1/2 7/8	9/16	1/16	FF-411-1 FF-411-2 FF-411-4
.314	.439	3/8 1/2 5/8 3/4 7/8 1	5/8	3/32	FB-57-3 FB-57-4 FB-57-5 FB-57-6 FB-57-7 FB-57-8
.3145	.4405	3/8 1/2 3/4	9/16	1/16	FL-32-3 (EF050706) FL-32-4 (EF050708) FL-32-6 (EF050712)
5/16 x 1/2 NOMINAL					
.3135	.502	3/8	9/16	1/16	FF-501-2
.314	.502	3/8 1/2 5/8	11/16	3/32	FB-58-3 FB-58-4 FB-58-5
.3145	.503	3/8	11/16	1/16	FL-33-3 (EF050806)
3/8 x 1/2 NOMINAL					
.3765	.502	1/4 5/16 3/8 1/2	5/8	1/16	FF-520-15 FF-520-9 FF-520-10 FF-520-5
.3765	.503	1/2 5/8	5/8	3/32	FF-512-2 FF-512-3
.377	.502	3/8 13/32 1/2 5/8 3/4 7/8 1 1-1/4	11/16	3/32	FB-68-3 FB-68-3-1/4 FB-68-4 FB-68-5 FB-68-6 FB-68-7 FB-68-8 FB-68-10

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ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
3/8 x 1/2 NOMINAL Cont.					
.377	.503	1/4	11/16	1/16	FL-38-2 (EF060804)
		1/2			FL-38-4 (EF060808)
		3/4			FL-38-6 (EF060812)
		1			FL-38-8 (EF060816)
.378	.503	1/2	3/4	3/32	FF-519-2
3/8 x 9/16 NOMINAL					
.376	.564	1/2	.740	1/16	FF-503-6
		11/16		FF-503-4	
		13/16		FF-503	
.377	.5645	1/2	3/4	1/8	FB-69-4
		3/4		FB-69-6	
		1-1/4		FB-69-10	
.377	.5655	1/2	11/16	1/16	FL-39-4 (EF060908)
		3/4		FL-39-6 (EF060912)	
3/8 x 5/8 NOMINAL					
.376	.627	1/2	7/8	1/16	FF-607-2
		3/4		FF-607-3	
		1-1/4		FF-607-1	
.377	.627	3/8	7/8	1/8	FB-610-3
		1/2		FB-610-4	
		5/8		FB-610-5	
		3/4		FB-610-6	
		1		FB-610-8	
		1-1/4		FB-610-10	
.377	.628	1/2	7/8	1/16	FL-40-4 (EF061008)
		3/4		FL-40-6 (EF061012)	
		1		FL-40-8 (EF061016)	
		1-1/4		FL-40-10 (EF061020)	
3/8 x 3/4 NOMINAL					
.377	.753	1/2	1	1/8	FB-612-4
7/16 x 9/16 NOMINAL					
.439	.565	1/2	11/16	1/16	FF-504-3
		5/8		FF-504	
		3/4		FF-504-1	
.4395	.5655	1/2	11/16	1/16	FL-43-4 (EF070908)
		3/4		FL-43-6 (EF070912)	

ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
7/16 x 5/8 NOMINAL					
.4385	.627	3/4	7/8	1/8	FF-608-3
		1-1/4		FF-608	
.439	.628	5/8	7/8	1/8	FB-710-5
		3/4		FB-710-6	
.4395	.628	3/4	7/8	1/8	FL-44-6 (EF071012)
		1-1/4		FL-44-10 (EF071020)	
1/2 x 5/8 NOMINAL					
.502	.627	5/16	3/4	3/32	FF-636-3
		3/8		FF-636-2	
.502	.627	3/16	7/8	1/16	FF-620-9
		1/2		FF-620-1	
		9/16		FF-620-5	
		5/8		FF-620-7	
		11/16		FF-620	
		3/4		FF-620-2	
		15/16		FF-620-6	
1	FF-620-3				
.502	.627	1/2	31/32	3/32	FF-600-5
		1		FF-600-2	
.502	.628	1/2	7/8	1/8	FB-810-4
		5/8		FB-810-5	
		3/4		FB-810-6	
		7/8		FB-810-7	
		1		FB-810-8	
		1-1/4		FB-810-10	
		1-1/2		FB-810-12	
1-3/4	FB-810-14				
.502	.628	3/8	7/8	1/8	FL-50-3 (EF081006)
		1/2		FL-50-4 (EF081008)	
		3/4		FL-50-6 (EF081012)	
		1		FL-50-8 (EF081016)	
		1-1/4		FL-50-10 (EF081020)	
		1-1/2		FL-50-12 (EF081024)	
1/2 x 11/16 NOMINAL					
.502	.690	1/2	15/16	1/8	FB-811-4
		5/8		FB-811-5	
		3/4		FB-811-6	
.502	.6905	1/2	7/8	1/8	FL-51-4 (EF081108)
		3/4		FL-51-6 (EF081112)	

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ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
1/2 x 11/16 NOMINAL Cont.					
.502	.691	5/16 1/2 3/4 13/16	13/16	1/16	FF-609-1 FF-609-3 FF-609-4 FF-609
.502	.691	1/2 3/4 13/16	31/32	3/32	FF-604-2 FF-604-1 FF-604
1/2 x 3/4 NOMINAL					
.502	.753	1/2 3/4 1	15/16	1/8	FF-707-5 FF-707-2 FF-707-3
.502	.753	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2	1	1/8	FB-812-4 FB-812-5 FB-812-6 FB-812-7 FB-812-8 FB-812-10 FB-812-12
.502	.753	1/2 3/4 1 1-1/4	1	1/8	FL-52-4 (EF081208) FL-52-6 (EF081212) FL-52-8 (EF081216) FL-52-10 (EF081220)
.503	.753	3/4	15/16	1/8	FF-710
.505	.753	3/8 1/2 5/8	1	1/8	FF-723-5 FF-723-1 FF-723
9/16 x 3/4 NOMINAL					
.565	.753	1/2 3/4 1	1	1/8	FB-912-4 FB-912-6 FB-912-8
5/8 x 3/4 NOMINAL					
.626	.753	1/2 5/8 3/4 1 1-1/4	1	1/8	FB-1012-4 FB-1012-5 FB-1012-6 FB-1012-8 FB-1012-10
.6265	.7525	5/8 3/4 1 1-1/8 1-1/4	1	3/32	FF-703-3 FF-703-7 FF-703-1 FF-703 FF-703-6
.627	.753	5/8 3/4 1 1-1/8	1	1/8	FL-62-5 (EF101210) FL-62-6 (EF101212) FL-62-8 (EF101216) FL-62-9 (EF101218)

ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
.6275	.7525	1/2 1 1-1/8	7/8	1/16	FF-718-1 FF-718-3 FF-718-6
5/8 x 13/16 NOMINAL					
.625	.815	1 1-1/4	1	1/8	FF-823-3 FF-823
.626	.815	1/2 3/4 1	1	1/8	FF-842-1 FF-842-2 FF-842-3
.627	.815	5/8 3/4 1 1-1/4 1-7/16 1-1/2 2	1-1/16	5/32	FB-1013-5 FB-1013-6 FB-1013-8 FB-1013-10 FB-1013-11.5 FB-1013-12 FB-1013-16
.627	.8165	3/4 1 1-1/4 1-1/2	1	1/8	FL-63-6 (EF101312) FL-63-8 (EF101316) FL-63-10 (EF101320) FL-63-12 (EF101324)
.628	.816	3/4 1-7/16	1-1/4	1/8	FF-806-1 FF-806
.6295	.8155	1/2 3/4 1	1	1/8	FF-805-2 FF-805 FF-805-3
5/8 x 7/8 NOMINAL					
.627	.877	5/8 3/4 1 1-1/4	1	1/8	FF-843-4 FF-843 FF-843-2 FF-843-3
.627	.878	5/8 3/4 1 1-3/4	1-1/8	5/32	FB-1014-5 FB-1014-6 FB-1014-8 FB-1014-14
.627	.879	1/2 3/4 1 1-1/4	1-1/8	1/8	FL-64-4 (EF101408) FL-64-6 (EF101412) FL-64-8 (EF101416) FL-64-10 (EF101420)
5/8 x 1 NOMINAL					
.627	1.003	3/4 1	1-1/4	5/32	FB-1016-6 FB-1016-8
.627	1.004	1	1-1/4	3/16	FL-66-8 (EF101616)

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ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
3/4 x 7/8 NOMINAL					
.751	.877	1/2 1	1	1/16	FF-838-1 FF-838-3
.752	.878	3/4 1 1-1/4	1-1/8	5/32	FB-1214-6 FB-1214-8 FB-1214-10
.752	.879	1/2 3/4	1-1/8	1/8	FL-75-4 (EF121408) FL-75-6 (EF121412)
3/4 x 15/16 NOMINAL					
.7505	.941	3/4 1	1-1/8	3/32	FF-911-3 FF-911-4
.752	.940	1 1-1/4 1-1/2	1-3/16	5/32	FB-1215-8 FB-1215-10 FB-1215-12
.752	.9415	3/4 1 1-1/8 1-1/4 1-1/2	1-1/4	1/8	FL-76-6 (EF121512) FL-76-8 (EF121516) FL-76-9 (EF121518) FL-76-10 (EF121520) FL-76-12 (EF121524)
.753	.938	9/16 3/4 1-1/4 1-9/16	1-5/16	1/8	FF-901-4 FF-901-6 FF-901-8 FF-901
.753	.9405	1-1/8	1-1/4	1/8	FF-905
3/4 x 1-1/4 NOMINAL					
.7505	1.002	1/2 5/8 1 1-1/8	1-7/16	1/8	FF-1011-2 FF-1011 FF-1011-4 FF-1011-1
.751	1.002	3/4 1 1-1/4 1-1/2	1-1/2	1/8	FF-1013-2 FF-1013 FF-1013-3 FF-1013-4
.752	1.002	3/4 1	1-5/16	1/8	FF-1014-2 FF-1014
.752	1.003	5/8 3/4 1 1-1/4 1-1/2 2	1-1/4	5/32	FB-1216-5 FB-1216-6 FB-1216-8 FB-1216-10 FB-1216-12 FB-1216-16

ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
.752	1.004	5/8 3/4 1 1-1/8 1-1/4 1-1/2	1-1/4	3/16	FL-77-5 (EF121610) FL-77-6 (EF121612) FL-77-8 (EF121616) FL-77-9 (EF121618) FL-77-10 (EF121620) FL-77-12 (EF121624)
.753	1.003	1/2 3/4 1	1-1/8	1/8	FF-1015-1 FF-1015-2 FF-1015
3/4 x 1-1/16 NOMINAL					
.752	1.0655	1-3/16	1-3/16	1/8	FF-1010
7/8 x 1 NOMINAL					
.8765	1.003	5/8 3/4 1	1-1/4	1/8	FF-1001-2 FF-1001-1 FF-1001
.877	1.003	3/4 1 1-1/4	1-1/4	5/32	FB-1416-6 FB-1416-8 FB-1416-10
.877	1.004	1/2 3/4 1	1-1/4	3/16	FL-87-4 (EF141608) FL-87-6 (EF141612) FL-87-8 (EF141616)
7/8 x 1-1/8 NOMINAL					
.877	1.128	1 1-1/4 1-1/2	1-3/8	5/32	FB-1418-8 FB-1418-10 FB-1418-12
.877	1.128	5/8 1 1-1/4 1-3/4	1-1/2	1/8	FF-1102-6 FF-1102-2 FF-1102-3 FF-1102
.877	1.129	3/4 1 1-1/4 1-1/2 1-3/4	1-1/2	1/8	FL-89-6 (EF141812) FL-89-8 (EF141816) FL-89-10 (EF141820) FL-89-12 (EF141824) FL-89-14 (EF141828)

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ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
1 x 1-1/4 NOMINAL					
1.001	1.252	3/4 1-1/2	1-1/2	1/8	FF-1213-1 FF-1213-4
1.001	1.253	3/4 1 1-1/4	1-7/8	1/8	FF-1202-4 FF-1202-3 FF-1202
1.002	1.252	3/4 1-1/4 1-1/2 1-3/4	1-5/8	1/8	FF-1207-5 FF-1207-7 FF-1207-3 FF-1207
1.002	1.253	3/4 1 1-1/4 1-1/2 2	1-1/2	3/16	FB-1620-6 FB-1620-8 FB-1620-10 FB-1620-12 FB-1620-16
1.003	1.254	3/4 1 1-1/4 1-1/2	1-1/2	1/8	FL-102-6 (EF162012) FL-102-8 (EF162016) FL-102-10 (EF162020) FL-102-12 (EF162024)
1 x 1-5/16 NOMINAL					
1.001	1.316	1-1/4	1-3/4	7/32	FF-1302
1.0015	1.3155	1-1/2	1-7/8	1/8	FF-1301
1 x 1-3/8 NOMINAL					
1.000	1.3785	1-3/4 2	1-3/4	3/16	FF-1304 FF-1304-1
1.002	1.378	1 1-1/2 1-3/4	1-5/8	3/16	FB-1622-8 FB-1622-12 FB-1622-14
1.003	1.379	3/4 1 1-1/2 1-3/4 2	1-5/8	3/16	FL-104-6 (EF162212) FL-104-8 (EF162216) FL-104-12 (EF162224) FL-104-14 (EF162228) FL-104-16 (EF162232)
1-1/8 x 1-3/8 NOMINAL					
1.127	1.377	3/4 1 1-1/4	1-3/4	1/8	FF-1314-1 FF-1314-2 FF-1314-3
1-1/4 x 1-1/2 NOMINAL					
1.2515	1.503	1/2 1-1/4	1-11/16	1/8	FF-1505-5 FF-1505

ID	OD	LENGTH	FLANGE OD	FLANGE THICK	REF. NO.
1.252	1.503	1 1-1/4 1-1/2	1-3/4	3/16	FB-2024-8 FB-2024-10 FB-2024-12
1.252	1.503	1-1/2 1-3/4	2	3/32	FF-1506-4 FF-1506-5
1.2535	1.504	1 1-1/4 1-1/2 1-3/4	1-3/4	3/16	FL-125-8 (EF202416) FL-125-10 (EF202420) FL-125-12 (EF202424) FL-125-14 (EF202428)
1-3/8 x 1-5/8 NOMINAL					
1.377	1.628	3/4 1	2	1/8	FF-1618 FF-1618-1
1-1/2 x 1-3/4 NOMINAL					
1.503	1.752	1-1/2	2	3/32	FF-1704-4
1.503	1.754	1-1/2	2-1/16	3/16	FB-2428-12
1.504	1.755	1-1/2	2	3/16	FL-150-12 (EF242824)
1-5/8 x 2 NOMINAL					
1.6265	2.004	2	2-1/4	3/16	FF-2000
1.629	2.005	2	2-1/4	3/16	FL-163-16 (EF263232)
1-3/4 x 2-1/4 NOMINAL					
1.753	2.254	2-1/2	3	1/4	FF-2204-3
1.754	2.255	2-1/2	3	1/4	FL-177-20 (EF283640)
2 x 2-1/4 NOMINAL					
2.003	2.254	3/4 1 1-1/4	2-1/2	1/8	FF-2203-2 FF-2203-3 FF-2203-4
2.004	2.255	2	2-1/2	1/8	FL-200-16 (EF323632)
2 x 2-1/2 NOMINAL					
2.002	2.501	2-3/8	3	3/8	FF-2501
2-3/4 x 3-1/4 NOMINAL					
2.752	3.250	1-1/2	4-1/2	3/16	FF-3200-4
3 x 3-1/2 NOMINAL					
3.002	3.502	2-3/8	4	3/8	FF-3500



ID	OD	LENGTH	REF. NO.
1/4 x 7/16 NOMINAL			
.255	.4375	1/16	TT-400
1/4 x 1/2 NOMINAL			
.255	.500	1/16	TT-504
1/4 x 5/8 NOMINAL			
.252	.628	1/16	TW-25 (EW041001)
.255	.625	1/16	TT-601
.255	.625	1/16	TB-410
5/16 x 5/8 NOMINAL			
.3145	.625	1/16	TT-602
5/16 x 3/4 NOMINAL			
.3145	.753	1/16	TW-31 (EW051201)
.315	.750	1/16	TT-709-1
.315	.750	1/16	TB-512
3/8 x 5/8 NOMINAL			
.385	.625	1/16	TT-604
3/8 x 3/4 NOMINAL			
.377	.753	1/16	TW-37 (EW061201)
.3775	.750	1/16 1/8	TT-710-1 TT-710-2
.390	.750	1/32	TT-703
.390	.750	1/32	TB-612
7/16 x 3/4 NOMINAL			
.4385	.750	1/16	TT-705-1
.439	.750	1/16	TB-712
.4395	.753	1/16	TW-43 (EW071201)
1/2 x 3/4 NOMINAL			
.502	.753	1/16	TW-50 (EW081201)
.507	.750	1/16	TT-706
.507	.750	1/16	TB-812
1/2 x 7/8 NOMINAL			
.505	.875	3/16	TT-801
.505	.875	3/16	TB-814

ID	OD	LENGTH	REF. NO.
1/2 x 1 NOMINAL			
.502	1.004	1/16	TW-51 (EW081601)
		1/8	TW-52 (EW081602)
.510	1.000	1/16	TT-1001
		3/32	TT-1001-2
		1/8	TT-1001-1
.510	1.000	1/16	TB-816
9/16 x 1-1/4 NOMINAL			
.5645	1.254	1/8	TW-56 (EW092002)
.565	1.250	1/16	TT-1200-1
		1/8	TT-1200
.565	1.250	1/8	TB-920
5/8 x 1 NOMINAL			
.627	1.004	1/16	TW-62 (EW101601)
		1/8	TW-63 (EW101602)
.628	1.000	1/16	TT-1002-1
		1/8	TT-1002
.628	1.000	1/8	TB-1016
5/8 x 1-3/16 NOMINAL			
.627	1.187	3/32	TB-1019
.627	1.1875	1/16	TT-1102-1
		3/32	TT-1102
		1/8	TT-1102-2
.627	1.1915	3/32	TW-64 (EW101902)
5/8 x 1-1/4 NOMINAL			
.627	1.254	1/8	TW-65 (EW102002)
.628	1.250	1/16	TT-1204
		1/8	TT-1204-1
.6285	1.250	1/8	TB-1020
5/8 x 1-1/2 NOMINAL			
.6265	1.500	1/8	TB-1024
.656	1.500	1/16	TT-1508-1
		1/8	TT-1508-2
3/4 x 1-1/4 NOMINAL			
.7515	1.250	1/8	TB-1220

ID	OD	LENGTH	REF. NO.
.752	1.254	1/16	TW-75 (EW122001)
		1/8	TW-76 (EW122002)
.753	1.250	1/16	TT-1205
		1/8	TT-1205-1
3/4 x 1-3/8 NOMINAL			
.752	1.379	1/8	TW-77 (EW122202)
.753	1.375	1/16	TT-1303-1
		1/8	TT-1303-2
		1/4	TT-1303-4
3/4 x 1-9/16 NOMINAL			
.752	1.5675	3/32	TW-78 (EW122502)
.765	1.562	3/32	TB-1225
.765	1.5625	3/32	TT-1501-1
3/4 x 1-3/4 NOMINAL			
.752	1.755	1/8	TW-79 (EW122802)
.765	1.750	1/8	TT-1701
.765	1.750	1/8	TB-1228
7/8 x 1-1/2 NOMINAL			
.877	1.504	1/8	TW-87 (EW142402)
.890	1.500	1/8	TB-1424
.8905	1.500	1/16	TT-1503-2
		1/8	TT-1503
7/8 x 2 NOMINAL			
.880	2.000	1/8	TT-2007
7/8 x 2-1/8 NOMINAL			
.890	2.125	1/8	TB-1434
.8905	2.125	1/8	TT-2101-1
1 x 1-1/2 NOMINAL			
1.003	1.504	1/16	TT-1502-2
		1/8	TT-1502
		3/16	TT-1502-1
1.003	1.504	1/8	TB-1624
1.003	1.504	1/8	TW-100 (EW162402)

RELIABLE BRONZE & MFG., INC.

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R-LUBE POWDERED METAL THRUST BEARINGS
SAE 841



ID	OD	LENGTH	REF. NO.
1 x 1-5/8 NOMINAL			
1.003	1.630	1/8	TW-101 (EW162602)
1.0155	1.625	1/16 1/8 1/4	TT-1603-3 TT-1603 TT-1603-4
1 x 1-3/4 NOMINAL			
1.012	1.750	1/16 1/8	TT-1709-1 TT-1709
1 x 2 NOMINAL			
1.003	2.005	1/8	TW-102 (EW163202)
1.016	2.000	1/8 3/16	TT-2001 TT-2001-1
1.016	2.000	1/8	TB-1632
1 x 2-7/8 NOMINAL			
1.0155	2.875	1/8	TT-2800
1-1/16 x 2-3/8 NOMINAL			
1.0625	2.375	1/16 1/8	TT-2301-4 TT-2301-3
1-1/8 x 1-7/8 NOMINAL			
1.140	1.875	1/8	TT-1800-1
1-1/4 x 1-11/16 NOMINAL			
1.253	1.690	1/8	TT-1602
1.2535	1.6925	1/8	TW-125 (EW202702)
1-1/4 x 1-3/4 NOMINAL			
1.253	1.750	1/8	TB-2028

ID	OD	LENGTH	REF. NO.
1-1/4 x 2 NOMINAL			
1.2535	2.005	1/8	TW-126 (EW203202)
1.265	2.000	1/16 1/8	TT-2006 TT-2006-1
1-1/4 x 2-3/8 NOMINAL			
1.265	2.375	1/16 1/8	TT-2304-1 TT-2304-2
1-1/4 x 3-5/16 NOMINAL			
1.255	3.312	1/16 1/8	TT-3301 TT-3301-1
1-3/8 x 1-15/16 NOMINAL			
1.379	1.940	1/8	TT-1900
1-1/2 x 2 NOMINAL			
1.503	2.000	1/8	TT-2008
1-1/2 x 2-1/2 NOMINAL			
1.504	2.505	1/8	TW-150 (EW244002)
1-1/2 x 3-1/2 NOMINAL			
1.504	3.507	3/16	TW-151 (EW245603)
1.510	3.500	3/16	TT-3500-1
1.510	3.500	3/16	TB-2456
1-9/16 x 2-7/16 NOMINAL			
1.578	2.4375	1/8	TT-2402
1-3/4 x 2-7/16 NOMINAL			
1.755	2.440	1/8	TT-2400-1

ID	OD	LENGTH	REF. NO.
1-3/4 x 2-5/8 NOMINAL			
1.754	2.631	1/8	TW-175 (EW284202)
1.765	2.625	1/8	TT-2601
1-15/16 x 2-5/8 NOMINAL			
1.953	2.625	1/8	TT-2600
2 x 3 NOMINAL			
2.004	3.006	1/8 1/4	TW-200 (EW324802) TW-201 (EW324804)
2.010	3.000	1/8 3/16 1/4	TT-3001-3 TT-3001 TT-3001-1
2 x 3-5/8 NOMINAL			
2.031	3.625	3/16	TT-3600
2-1/16 x 4 NOMINAL			
2.062	4.00	1/8 1/4	TT-4002-1 TT-4002
2-1/2 x 3-1/4 NOMINAL			
2.502	3.250	1/8	TT-3200
2-3/4 x 3-7/8 NOMINAL			
2.766	3.875	1/4	TT-3800

RELIABLE BRONZE & MFG., INC.

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R-LUBE POWDERED METAL CORED BRONZE BARS

SAE 841

Will finish to dimensions shown.



ID	OD	LENGTH	REF. NO.
1/2	1	6-1/2	CC-1000-2
1/2	1-1/8	6-1/2	CC-1103
1/2	1-1/4	6-1/2	CC-1203
1/2	1-1/2	6-1/2	CC-1502
1/2	2	6-1/2	CC-2005
5/8	1	6-1/2	CC-1001
5/8	1-1/8	6-1/2	CC-1101-1
5/8	1-1/4	6-1/2	CC-1200-1
5/8	1-3/8	6-1/2	CC-1302
5/8	1-1/2	6-1/2	CC-1503
5/8	1-3/4	6-1/2	CC-1703
5/8	2	6-1/2	CC-2006
3/4	1-1/4	6-1/2	CC-1201-1
3/4	1-1/2	6-1/2	CC-1500-1
3/4	1-3/4	6-1/2	CC-1702
3/4	2	6-1/2	CC-2001
3/4	2-1/4	6-1/2	CC-2206
3/4	2-1/2	6-1/2	CC-2504
3/4	2-3/4	6-1/2	CC-2704
7/8	1-3/8	6-1/2	CC-1301
7/8	1-1/2	6-1/2	CC-1504
7/8	2	6-1/2	CC-2007
7/8	2-1/4	6-1/2	CC-2207
1	1-1/2	6-1/2	CC-1501
1	1-5/8	6-1/2	CC-1600-1
1	1-3/4	6-1/2	CC-1700-2
1	2	6-1/2	CC-2002
1	2-1/4	6-1/2	CC-2202-2
1	2-1/2	6-1/2	CC-2501
1	3	6-1/2	CC-3001
1	3-1/2	6-1/2	CC-3504
1	4	6-1/2	CC-4004
1-1/8	2-1/8	6-1/2	CC-2102
1-1/4	1-3/4	6-1/2	CC-1701-3

ID	OD	LENGTH	REF. NO.
1-1/4	2	6-1/2	CC-2000-1
1-1/4	2-1/4	6-1/2	CC-2203
1-1/4	2-1/2	6-1/2	CC-2502
1-1/4	3	6-1/2	CC-3003
1-1/4	3-1/2	6-1/2	CC-3505
1-1/4	4	6-1/2	CC-4005
1-3/8	2	6-1/2	CC-2003
1-3/8	2-3/4	6-1/2	CC-2702
1-1/2	2	6-1/2	CC-2004
1-1/2	2-1/4	6-1/2	CC-2200-1
1-1/2	2-1/2	6-1/2	CC-2503
1-1/2	2-3/4	6-1/2	CC-2701
1-1/2	3	6-1/2	CC-3002
1-1/2	3-1/2	6-1/2	CC-3502
1-1/2	4	6-1/2	CC-4007
1-3/4	2-1/4	6-1/2	CC-2201-3
1-3/4	2-1/2	6-1/2	CC-2500-1
1-3/4	2-5/8	6-1/2	CC-2604
1-3/4	2-3/4	6-1/2	CC-2703
1-3/4	3	6-1/2	CC-3005
1-3/4	3-1/2	6-1/2	CC-3503
1-3/4	4-1/4	6-1/2	CC-4202
1-3/4	4-1/2	6-1/2	CC-4502
2	2-3/4	6-1/2	CC-2700-1
2	3	6-1/2	CC-3000
2	3-1/4	6-1/2	CC-3201-2
2	4	6-1/2	CC-4003
2	4-1/2	6-1/2	CC-4501
2	5	6-1/2	CC-5000
2	5-1/2	6-1/2	CC-5500
2-1/4	3	6-1/2	CC-3006
2-1/4	3-1/4	6-1/2	CC-3202-1
2-1/4	3-1/2	6-1/2	CC-3500-1
2-1/4	3-3/4	6-1/2	CC-3703
2-1/4	4	6-1/2	CC-4008

ID	OD	LENGTH	REF. NO.
2-1/4	4-1/2	6-1/2	CC-4503
2-3/8	3	6-1/2	CC-3007
2-3/8	3-1/2	6-1/2	CC-3507
2-3/8	4	6-1/2	CC-4009
2-3/8	4-1/2	6-1/2	CC-4504
2-1/2	3-1/2	6-1/2	CC-3501
2-1/2	3-3/4	6-1/2	CC-3702
2-1/2	4	6-1/2	CC-4010
2-1/2	4-1/4	6-1/2	CC-4203
2-1/2	4-1/2	6-1/2	CC-4505
2-1/2	5	6-1/2	CC-5001
2-3/4	3-3/4	6-1/2	CC-3700-1
3	3-3/4	6-1/2	CC-3701-1
3	4	6-1/2	CC-4001
3	4-1/2	6-1/2	CC-4506
3	5	6-1/2	CC-5002
3	6	6-1/2	CC-6000
3-1/4	4-1/4	6-1/2	CC-4200-1
3-1/2	4-3/4	6-1/2	CC-4700-2
3-1/2	5	6-1/2	CC-5003
3-1/2	6	6-1/2	CC-6002
3-3/4	5	6-1/2	CC-5004
4	5-1/2	6-1/2	CC-5501
4	6	6-1/2	CC-6001
4	7	6-1/2	CC-7001
4	8	6-1/2	CC-8000
4-1/2	6	6-1/2	CC-6003
5	7	6-1/2	CC-7000
6	8	6-1/2	CC-8001

R-LUBE POWDERED METAL SOLID BRONZE BARS

SAE 841

Will finish to dimensions shown.



ID	OD	LENGTH	REF. NO.
SOLID	1/4	2	BB-200
	3/8	3	BB-302
	1/2	6-1/2	BB-500
	5/8	6-1/2	BB-600-1
	3/4	6-1/2	BB-700-1
	7/8	6-1/2	BB-800-1
	1	6-1/2	BB-1000-2
	1-1/8	6-1/2	BB-1100
	1-1/4	6-1/2	BB-1200-1

ID	OD	LENGTH	REF. NO.
SOLID	1-3/8	6-1/2	BB-1300
	1-1/2	6-1/2	BB-1500-2
	1-5/8	6-1/2	BB-1600
	1-3/4	6-1/2	BB-1700-1
	2	6-1/2	BB-2000-1
	2-1/4	6-1/2	BB-2200
	2-1/2	6-1/2	BB-2500-1
	2-3/4	6-1/2	BB-2700-1
	3	6-1/2	BB-3000-1

ID	OD	LENGTH	REF. NO.
SOLID	3-1/4	6-1/2	BB-3200-2
	3-1/2	6-1/2	BB-3500-1
	4	6-1/2	BB-4000-1
	4-1/2	6-1/2	BB-4500
	5	6-1/2	BB-5000
	5-1/2	6-1/2	BB-5500
	6	6-1/2	BB-6000
	7	6-1/2	BB-7000
	8	6-1/2	BB-8000

SUPER R-LUBE CORED BAR STOCK

SAE 863

Will finish to dimensions shown.



ID	OD	LENGTH	REF. NO.
1/2	1	5	SSC-1000
1/2	1-7/16	5	SSC-1402
3/4	1-3/16	5	SSC-1102
3/4	1-9/16	5	SSC-1500
3/4	1-15/16	5	SSC-1900
1	1-11/16	5	SSC-1601
1	2-3/16	5	SSC-2100

ID	OD	LENGTH	REF. NO.
1-1/4	1-11/16	5	SSC-1602
1-1/4	2-3/16	5	SSC-2103
1-1/4	2-7/8	5	SSC-2803
1-1/2	1-15/16	5	SSC-1904
1-1/2	3-7/8	5	SSC-3805
1-3/4	2-1/2	5	SSC-2504
1-3/4	3	5	SSC-3004

ID	OD	LENGTH	REF. NO.
2	2-5/8	5	SSC-2600
2	3	5	SSC-3005
2-1/2	3-3/8	5	SSC-3301
2-1/2	4-1/8	5	SSC-4102
3	4-7/8	5	SSC-4802

RELIABLE BRONZE & MFG., INC.

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SUPER R-LUBE SOLID BAR STOCK SAE 863

Will finish to dimensions shown.



ID	OD	LENGTH	REF. NO.
SOLID	3/8	2-1/2	SSS-300
	1/2	6-1/2	SSS-500
	5/8	5	SSS-600
	3/4	5	SSS-700
	7/8	5	SSS-800
	1	5	SSS-1000

ID	OD	LENGTH	REF. NO.
SOLID	1-3/16	5	SSS-1100
	1-5/16	5	SSS-1300
	1-9/16	5	SSS-1500
	1-13/16	5	SSS-1800
	2-1/16	5	SSS-2000
	2-7/8	5	SSS-2800

R-LUBE POWDERED METAL PLATE STOCK SAE 841

Width and length will finish to dimensions shown.



WIDTH	LENGTH	THICKNESS ± .005	REF. NO.
1/2	2-1/2	1/4	PP-2500
2	8-1/8	1/4	PP-8100-1
2	8-1/8	1/2	PP-8100
3	12	1/4	PP-12100
3	12	1/2	PP-12100-1
3	12	3/4	PP-12100-2
3	12	1	PP-12100-3
5	6	1/8	PP-6000
5	6	3/16	PP-6000-1
5	6	1/4	PP-6000-2
5	6	3/8	PP-6000-4
5	6	1/2	PP-6000-5
5	6	5/8	PP-6000-6

WIDTH	LENGTH	THICKNESS ± .005	REF. NO.
5	6	3/4	PP-6000-7
5	6	1	PP-6000-8
5	8	1/8	PP-8000-7
5	8	1/4	PP-8000-1
5	8	1/2	PP-8000-4
5	8	3/4	PP-8000-5
6	12	1/8	PP-12000-6
6	12	3/16	PP-12000-7
6	12	1/4	PP-12000
6	12	3/8	PP-12000-1
6	12	1/2	PP-12000-2
6	12	5/8	PP-12000-3
6	12	1	PP-12000-5

R-LUBE POWDERED METAL SOLID CIRCULAR BEARING PLATES-DISCS SAE 841

O.D. will finish to dimensions shown.



ID	OD	THICKNESS ± .005	REF. NO.
SOLID	3	1/4	DD-3000
	4	1/4	DD-4000
	5-5/8	1/4	DD-5602-1
	6	5/16	DD-6000
	7	5/16	DD-7001
	8	5/16	DD-8000
	8	3/8	DD-8000-3

R-LUBE POWDERED METAL CIRCULAR BEARING PLATES-DISCS SAE 841

I.D. and O.D. will finish to dimensions shown.



ID	OD	THICKNESS ± .005	REF. NO.
1	3	1/4	CD-3001
1	4	1/4	CD-4001
2	4	1/4	CD-4002
2	5-1/2	1/4	CD-5500
2-1/4	4-1/2	1/4	CD-4502
4	6	5/16	CD-6003

R-LUBE POWDERED METAL MAINTENANCE KIT SAE 841

Actual sizes appear on box label.



SELF-LUBRICATING BRONZE SLEEVE BEARING KIT

Handy 45-piece assortment includes 13 of the most often used bearing sizes—you'll find yourself reaching for them time and time again. These bearings are impregnated with oil so they're especially useful in areas where lubrication maintenance is difficult or impossible.

Sizes range from 1/4" ID x 5/16" OD to 1" ID x 1 1/4" OD, in lengths from 3/4" to 2 7/8".

A reference chart is included for easy identification. The kit is housed in a conveniently compartmented plastic box.

CAST BRONZE SLEEVE BEARINGS

TYPICAL APPLICATIONS

Bearings Washers
Bushings Low Load Applications

PHYSICAL PROPERTIES *

Tensile strength, p.s.i. 44,000
Yield strength, p.s.i. 27,000
Elongation, % in 2" 16
Brinell Hardness 72

*Not to be used for specification purposes.

MATERIAL TOLERANCES

From nominal size

Inside diameter
3" or less ± .0010"
Over 3" ± .0015"
Outside diameter
3" or less + .002" to .003"
Over 3" + .003" to .005"
All lengths ± .005"
Concentricity003" T.I.R.

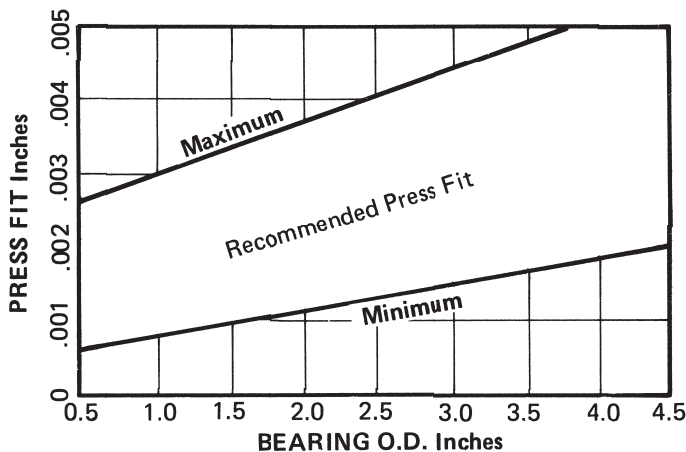
Special Tolerances or Machined to print parts are available.

Oil Grooving

PRESS FIT

Less than normal press fit proves satisfactory:

(1) if the bearing is long and the wall is not exceptionally thin, and (2) if the bearing is also carrying a moderate load exerted only in one direction.



ALLOY SPECIFICATION *

SAE 660
ASTM B-144-52 (1961) Alloy 3B
FEDERAL QQ-C-390
Alloy E7
Supersedes:
QQ-B-1005
QQ-L-225
QQ-B-691 B
Composition 12
MILITARY MIL-B-16261 A (WEP)
Amendment 1
Supersedes:
MIL-B-16261 A (NORD)
MIL-B-16261 (BUORD)
46B22G
Grade VI
MIL-B-11553B, Amendment 1
Composition 12 for continuous cast method.

*Certification of compliance or chemical certification available upon request.

CHEMICAL COMPOSITION

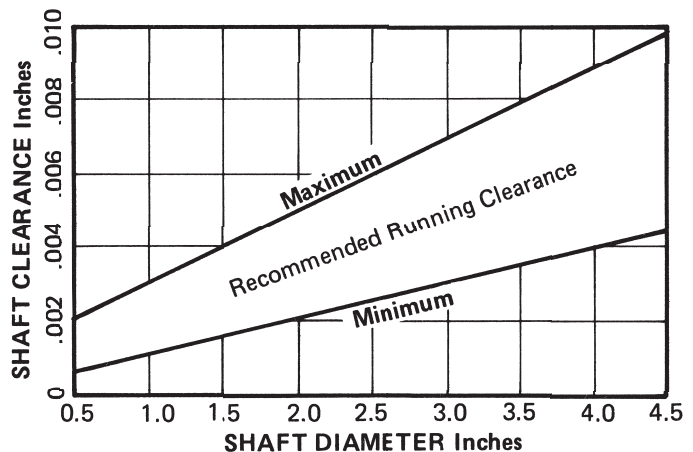
Copper 83%
Tin 7%
Lead . 7%
Zinc . 3%

Other alloys available, given sufficient quantities.

CLEARANCE

Greater than normal clearance must be allowed:

(1) if exceptionally high speed is involved, (2) if higher than normal loading is encountered.



RELIABLE BRONZE & MFG., INC.

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R-CON CAST BRONZE BEARINGS SAE 660 (Sleeve Bearings)



ID	OD	LENGTH	REFERENCE
3/16	5/16	1/2	CB-0305-04
		3/4	CB-0305-06
		1	CB-0305-08
1/4	3/8	1/4	CB-0406-02
		3/8	CB-0406-03
		1/2	CB-0406-04
		3/4	CB-0406-06
		1	CB-0406-08
		1-1/4	CB-0406-10
1/4	7/16	3/4	CB-0407-06
		1	CB-0407-08
		1-1/4	CB-0407-10
5/16	7/16	3/8	CB-0507-03
		1/2	CB-0507-04
		3/4	CB-0507-06
		1	CB-0507-08
		1-1/4	CB-0507-10
5/16	1/2	3/4	CB-0508-06
		1	CB-0508-08
		1-1/4	CB-0508-10
3/8	1/2	3/8	CB-0608-03
		1/2	CB-0608-04
		3/4	CB-0608-06
		1	CB-0608-08
		1-1/4	CB-0608-10
		1-1/2	CB-0608-12
3/8	9/16	3/4	CB-0609-06
		1	CB-0609-08
		1-1/4	CB-0609-10
3/8	5/8	3/4	CB-0610-06
		1	CB-0610-08
		1-1/4	CB-0610-10
		1-1/2	CB-0610-12
7/16	9/16	1	CB-0709-08
		1-1/4	CB-0709-10
		1-1/2	CB-0709-12
		1-3/4	CB-0709-14
		2	CB-0709-16
7/16	5/8	1	CB-0710-08
		1-1/4	CB-0710-10
		1-1/2	CB-0710-12
		2	CB-0710-16
7/16	11/16	1-1/2	CB-0711-12
7/16	3/4	1	CB-0712-08
		1-1/4	CB-0712-10
		1-1/2	CB-0712-12
7/16	13/16	1-1/2	CB-0713-12
1/2	5/8	1/2	CB-0810-04
		5/8	CB-0810-05
		3/4	CB-0810-06
		7/8	CB-0810-07
		1	CB-0810-08
		1-1/4	CB-0810-10
		1-3/8	CB-0810-11
		1-1/2	CB-0810-12
		1-3/4	CB-0810-14
		2	CB-0810-16
		2-1/4	CB-0810-18

ID	OD	LENGTH	REFERENCE		
1/2	11/16	3/4	CB-0811-06		
		1	CB-0811-08		
		1-1/4	CB-0811-10		
		1-1/2	CB-0811-12		
		1-3/4	CB-0811-14		
		2	CB-0811-16		
		2-1/4	CB-0811-18		
1/2	3/4	1/2	CB-0812-04		
		3/4	CB-0812-06		
		1	CB-0812-08		
		1-1/4	CB-0812-10		
		1-1/2	CB-0812-12		
		1-3/4	CB-0812-14		
		2	CB-0812-16		
1/2	13/16	1	CB-0813-08		
		1-1/2	CB-0813-12		
		2-1/4	CB-0813-18		
		1/2	7/8	1	CB-0814-08
				1-1/4	CB-0814-10
				1-1/2	CB-0814-12
				1-3/4	CB-0814-14
2	CB-0814-16				
1/2	1			1	CB-0816-08
		1-1/2	CB-0816-12		
		2	CB-0816-16		
		2-1/4	CB-0816-18		
9/16	11/16	1	CB-0911-08		
		1-1/4	CB-0911-10		
		1-1/2	CB-0911-12		
		1-3/4	CB-0911-14		
		2	CB-0911-16		
		2-1/4	CB-0911-18		
9/16	3/4	1	CB-0912-08		
		1-1/4	CB-0912-10		
		1-1/2	CB-0912-12		
		1-3/4	CB-0912-14		
		2	CB-0912-16		
		2-1/4	CB-0912-18		
9/16	13/16	1	CB-0913-08		
		1-1/4	CB-0913-10		
		1-1/2	CB-0913-12		
		1-3/4	CB-0913-14		
		2	CB-0913-16		
		2-1/2	CB-0913-20		
9/16	7/8	1	CB-0914-08		
		1-1/2	CB-0914-12		
		2	CB-0914-16		
5/8	3/4	1/2	CB-1012-04		
		3/4	CB-1012-06		
		1	CB-1012-08		
		1-1/8	CB-1012-09		
		1-1/4	CB-1012-10		
		1-1/2	CB-1012-12		
		1-3/4	CB-1012-14		
		2	CB-1012-16		

ID	OD	LENGTH	REFERENCE		
5/8	3/4	2-1/4	CB-1012-18		
		2-1/2	CB-1012-20		
		3	CB-1012-24		
5/8	13/16	1	CB-1013-08		
		1-1/4	CB-1013-10		
		1-1/2	CB-1013-12		
		1-3/4	CB-1013-14		
		2	CB-1013-16		
		2-1/4	CB-1013-18		
5/8	7/8	1/2	CB-1014-04		
		3/4	CB-1014-06		
		1	CB-1014-08		
		1-1/8	CB-1014-09		
		1-1/4	CB-1014-10		
		1-1/2	CB-1014-12		
5/8	15/16	1-3/4	CB-1014-14		
		2	CB-1014-16		
		2-1/4	CB-1014-18		
		2-1/2	CB-1014-20		
		3	CB-1014-24		
		5/8	1	1	CB-1016-08
1-1/2	CB-1016-12				
2	CB-1016-16				
2-1/4	CB-1016-18				
5/8	1-1/8	2-1/2	CB-1016-20		
		3	CB-1016-24		
		5/8	1-1/8	1-1/2	CB-1018-12
				2	CB-1018-16
2-1/4	CB-1018-18				
11/16	13/16	1	CB-1113-08		
		1-1/4	CB-1113-10		
		1-1/2	CB-1113-12		
		1-3/4	CB-1113-14		
		2	CB-1113-16		
		2-1/2	CB-1113-20		
11/16	7/8	1	CB-1114-08		
		1-1/4	CB-1114-10		
		1-1/2	CB-1114-12		
		1-3/4	CB-1114-14		
		2	CB-1114-16		
		2-1/4	CB-1114-18		
11/16	15/16	2-1/2	CB-1114-20		
		1	CB-1115-08		
		1-1/4	CB-1115-10		
		1-1/2	CB-1115-12		
		1-3/4	CB-1115-14		
		2	CB-1115-16		
11/16	1	2-1/2	CB-1115-20		
		1-1/4	CB-1116-10		
		2-1/4	CB-1116-18		
		2-1/2	CB-1116-20		
		3/4	7/8	3/4	CB-1214-06
				1	CB-1214-08
1-1/4	CB-1214-10				
1-1/2	CB-1214-12				

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ID	OD	LENGTH	REFERENCE
3/4	7/8	1-3/4	CB-1214-14
		2	CB-1214-16
		2-1/4	CB-1214-18
		2-1/2	CB-1214-20
3/4	15/16	1	CB-1215-08
		1-1/4	CB-1215-10
		1-3/8	CB-1215-11
		1-1/2	CB-1215-12
		1-3/4	CB-1215-14
		2	CB-1215-16
		2-1/4	CB-1215-18
		2-1/2	CB-1215-20
		2-3/4	CB-1215-22
		3	CB-1215-24
		3/4	1	1/2	CB-1216-04
3/4	CB-1216-06		
7/8	CB-1216-07		
1	CB-1216-08		
1-1/8	CB-1216-09		
1-1/4	CB-1216-10		
1-3/8	CB-1216-11		
1-1/2	CB-1216-12		
1-3/4	CB-1216-14		
1-7/8	CB-1216-15		
2	CB-1216-16		
2-1/8	CB-1216-17		
2-1/4	CB-1216-18		
2-1/2	CB-1216-20		
2-3/4	CB-1216-22		
3	CB-1216-24		
3-1/2	CB-1216-28		
3/4	1-1/16	1	CB-1217-08
		1-1/2	CB-1217-12
		2	CB-1217-16
		2-1/4	CB-1217-18
		2-1/2	CB-1217-20
		3	CB-1217-24
3/4	1-1/8	1	CB-1218-08
		1-1/2	CB-1218-12
		2	CB-1218-16
		2-1/4	CB-1218-18
		2-1/2	CB-1218-20
3/4	1-3/16	1-1/2	CB-1219-12
		2	CB-1219-16
3/4	1-1/4	1-1/2	CB-1220-12
		1-3/4	CB-1220-14
		2	CB-1220-16
		2-1/4	CB-1220-18
		2-1/2	CB-1220-20
13/16	15/16	1	CB-1315-08
		1-1/2	CB-1315-12
		2	CB-1315-16
13/16	1	1-1/2	CB-1316-12
		1-3/4	CB-1316-14
		2	CB-1316-16
		2-1/2	CB-1316-20
13/16	1-1/16	1-1/2	CB-1317-12
		2	CB-1317-16

ID	OD	LENGTH	REFERENCE
13/16	1-1/16	2-1/2	CB-1317-20
		2-3/4	CB-1317-22
		3	CB-1317-24
13/16	1-1/8	1-1/2	CB-1318-12
		2	CB-1318-16
13/16	1-3/16	2-1/2	CB-1319-20
		3	CB-1319-24
7/8	1	1	CB-1416-08
		1-1/4	CB-1416-10
		1-3/8	CB-1416-11
		1-1/2	CB-1416-12
		1-5/8	CB-1416-13
		2	CB-1416-16
7/8	1-1/16	1	CB-1417-08
		1-1/4	CB-1417-10
		1-1/2	CB-1417-12
		1-3/4	CB-1417-14
		2	CB-1417-16
		2-1/4	CB-1417-18
		2-1/2	CB-1417-20
		3	CB-1417-24
		7/8	1-1/8	3/4	CB-1418-06
1	CB-1418-08		
1-1/4	CB-1418-10		
1-3/8	CB-1418-11		
1-1/2	CB-1418-12		
1-3/4	CB-1418-14		
2	CB-1418-16		
2-1/4	CB-1418-18		
2-1/2	CB-1418-20		
3	CB-1418-24		
3-1/4	CB-1418-26		
3-1/2	CB-1418-28		
7/8	1-3/16	1	CB-1419-08
		1-1/4	CB-1419-10
		1-1/2	CB-1419-12
		2	CB-1419-16
		2-1/2	CB-1419-20
7/8	1-1/4	1-1/2	CB-1420-12
		1-3/4	CB-1420-14
		2	CB-1420-16
		2-1/4	CB-1420-18
		2-1/2	CB-1420-20
		3	CB-1420-24
7/8	1-3/8	1-1/2	CB-1422-12
		1-3/4	CB-1422-14
		2	CB-1422-16
		2-1/2	CB-1422-20
15/16	1-1/8	1-1/2	CB-1518-12
		2	CB-1518-16
		2-1/2	CB-1518-20
15/16	1-3/16	1-1/4	CB-1519-10
		1-1/2	CB-1519-12
		2	CB-1519-16
13/16	1-1/16	2-1/4	CB-1519-18
		3	CB-1519-24

ID	OD	LENGTH	REFERENCE
15/16	1-1/4	1	CB-1520-08
		1-1/2	CB-1520-12
		2	CB-1520-16
		2-1/2	CB-1520-20
15/16	1-5/16	2-3/4	CB-1520-22
		1-1/2	CB-1521-12
		2	CB-1521-16
1	1-1/8	3	CB-1521-24
		1	CB-1618-08
		1-3/8	CB-1618-11
1	1-3/16	1-1/2	CB-1618-12
		1-3/4	CB-1618-14
		2	CB-1618-16
		2-1/2	CB-1618-20
		7/8	CB-1619-07
1	1-1/4	1	CB-1619-08
		1-1/4	CB-1619-10
		1-1/2	CB-1619-12
		1-3/4	CB-1619-14
		2	CB-1619-16
		2-1/2	CB-1619-20
1	1-1/4	3/4	CB-1620-06
		1	CB-1620-08
		1-1/8	CB-1620-09
		1-1/4	CB-1620-10
		1-3/8	CB-1620-11
		1-1/2	CB-1620-12
		1-5/8	CB-1620-13
		1-3/4	CB-1620-14
		1-7/8	CB-1620-15
		2	CB-1620-16
		2-1/4	CB-1620-18
		2-1/2	CB-1620-20
1	1-5/16	2-3/4	CB-1620-22
		3	CB-1620-24
		3-1/2	CB-1620-28
		3-3/4	CB-1620-30
		4	CB-1620-32
		4-1/2	CB-1620-36
1	1-3/8	1-1/2	CB-1621-12
		2	CB-1621-16
		2-1/4	CB-1621-18
		2-1/2	CB-1621-20
		3	CB-1621-24
		3-1/2	CB-1621-28
1	1-1/2	3-3/4	CB-1621-30
		1	CB-1622-08
		1-1/4	CB-1622-10
		1-1/2	CB-1622-12
		1-3/4	CB-1622-14
		2	CB-1622-16
		2-1/2	CB-1622-20
		2-3/4	CB-1622-22
		3	CB-1622-24
		3-1/4	CB-1622-26
1	1-1/2	3-1/2	CB-1622-28
		4	CB-1622-32
		4-1/2	CB-1622-36
		1-1/2	CB-1624-12
1	1-1/2	1-3/4	CB-1624-14
		2	CB-1624-16
		2-1/2	CB-1624-20

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ID	OD	LENGTH	REFERENCE		
1	1-1/2	3	CB-1624-24		
		4	CB-1624-32		
1	1-5/8	2	CB-1626-16		
		2-1/2	CB-1626-20		
		3	CB-1626-24		
		3-1/2	CB-1626-28		
1	1-3/4	6-1/2	CB-1628-52		
1	2	3	CB-1632-24		
		6-1/2	CB-1632-52		
1-1/16	1-5/16	1-1/2	CB-1721-12		
		2	CB-1721-16		
		2-1/2	CB-1721-20		
		3	CB-1721-24		
		3-1/2	CB-1721-28		
1-1/16	1-3/8	1	CB-1722-08		
		2	CB-1722-16		
		2-1/2	CB-1722-20		
1-1/16	1-7/16	2-1/2	CB-1723-20		
		3	CB-1723-24		
		4	CB-1723-32		
1-1/8	1-1/4	1-1/2	CB-1820-12		
		1-3/4	CB-1820-14		
		2	CB-1820-16		
1-1/8	1-5/16	2-1/4	CB-1821-18		
		2-1/2	CB-1821-20		
1-1/8	1-3/8	1	CB-1822-08		
		1-1/4	CB-1822-10		
		1-1/2	CB-1822-12		
		1-3/4	CB-1822-14		
		2	CB-1822-16		
		2-1/4	CB-1822-18		
		2-1/2	CB-1822-20		
		3	CB-1822-24		
		3-1/4	CB-1822-26		
		3-1/2	CB-1822-28		
		4	CB-1822-32		
		1-1/8	1-7/16	1-1/2	CB-1823-12
				2-1/2	CB-1823-20
3	CB-1823-24				
3-1/2	CB-1823-28				
1-1/8	1-1/2	1-1/2	CB-1824-12		
		2	CB-1824-16		
		2-1/2	CB-1824-20		
		3	CB-1824-24		
		3-1/2	CB-1824-28		
		4	CB-1824-32		
1-1/8	1-5/8	1-3/4	CB-1826-14		
		2	CB-1826-16		
		2-1/2	CB-1826-20		
		3	CB-1826-24		
		3-1/2	CB-1826-28		
		4-1/2	CB-1826-36		
1-1/8	1-7/8	6-1/2	CB-1830-52		
1-1/8	2	3	CB-1832-24		
		5-1/2	CB-1832-44		

ID	OD	LENGTH	REFERENCE
1-3/16	1-3/8	1-3/4	CB-1922-14
		2	CB-1922-16
		2-1/2	CB-1922-20
1-3/16	1-7/16	1-1/4	CB-1923-10
		1-1/2	CB-1923-12
		2	CB-1923-16
		2-1/2	CB-1923-20
		3	CB-1923-24
		3-1/2	CB-1923-28
1-3/16	1-1/2	2	CB-1924-16
		3	CB-1924-24
		4	CB-1924-32
1-3/16	1-9/16	1-1/2	CB-1925-12
		2-1/2	CB-1925-20
		3	CB-1925-24
		3-1/2	CB-1925-28
1-3/16	1-5/8	2	CB-1926-16
		2-1/2	CB-1926-20
		3	CB-1926-24
1-3/16	1-11/16	2	CB-1927-16
		2-1/2	CB-1927-20
		3	CB-1927-24
1-1/4	1-3/8	3-1/2	CB-1927-28
		4	CB-2022-32
1-1/4	1-7/16	2	CB-2023-16
		2-1/2	CB-2023-20
		3	CB-2023-24
1-1/4	1-1/2	1	CB-2024-08
		1-1/8	CB-2024-09
		1-1/4	CB-2024-10
		1-3/8	CB-2024-11
		1-1/2	CB-2024-12
		1-5/8	CB-2024-13
		1-3/4	CB-2024-14
		2	CB-2024-16
		2-1/4	CB-2024-18
		2-1/2	CB-2024-20
		2-3/4	CB-2024-22
		3	CB-2024-24
		3-1/4	CB-2024-26
		3-1/2	CB-2024-28
4	CB-2024-32		
1-1/4	1-9/16	4-1/4	CB-2024-34
		4-1/2	CB-2024-36
		5	CB-2024-40
		5-1/2	CB-2024-44
		2	CB-2025-16
		2-1/2	CB-2025-20
1-1/4	1-5/8	3	CB-2025-24
		3-1/2	CB-2025-28
		3-3/4	CB-2025-30
		1-3/4	CB-2026-14
		2	CB-2026-16
1-1/4	1-3/4	2-1/2	CB-2026-20
		3	CB-2026-24
		3-1/4	CB-2026-26
		3-1/2	CB-2026-28
		4	CB-2026-32
		4-1/2	CB-2026-36
		4-3/4	CB-2026-38

ID	OD	LENGTH	REFERENCE
1-1/4	1-11/16	2	CB-2027-16
		2-1/2	CB-2027-20
		3-1/4	CB-2027-26
		3-1/2	CB-2027-28
1-1/4	1-3/4	1-1/4	CB-2028-10
		1-3/4	CB-2028-14
		2	CB-2028-16
		2-1/4	CB-2028-18
		2-1/2	CB-2028-20
		2-3/4	CB-2028-22
1-1/4	1-7/8	3	CB-2028-24
		3-1/2	CB-2028-28
		3-3/4	CB-2028-30
		4	CB-2028-32
		5	CB-2028-40
1-1/4	2	2	CB-2030-16
		2-1/2	CB-2030-20
		3	CB-2030-24
		4	CB-2030-32
1-1/4	2	3	CB-2032-24
		4	CB-2032-32
		6-1/2	CB-2032-52
1-5/16	1-1/2	1-3/4	CB-2124-14
		3	CB-2124-24
1-5/16	1-9/16	3	CB-2125-24
		3-1/2	CB-2125-28
		4	CB-2125-32
1-5/16	1-5/8	2	CB-2126-16
		2-1/2	CB-2126-20
		3	CB-2126-24
		4	CB-2126-32
		4-3/4	CB-2126-38
1-5/16	1-11/16	2-1/2	CB-2127-20
		3	CB-2127-24
		4	CB-2127-32
1-5/16	1-13/16	3	CB-2129-24
		4	CB-2129-32
1-5/16	1-7/8	3-1/2	CB-2130-28
		4-1/2	CB-2130-36
1-3/8	1-1/2	1-3/4	CB-2224-14
		2	CB-2224-16
		2-1/2	CB-2224-20
1-3/8	1-5/8	1-1/4	CB-2226-10
		1-1/2	CB-2226-12
		2	CB-2226-16
		3	CB-2226-24
		3-1/4	CB-2226-26
1-3/8	1-11/16	3-1/2	CB-2226-28
		4	CB-2226-32
		4-1/2	CB-2226-36
		3-1/2	CB-2227-28
1-3/8	1-3/4	2	CB-2228-16
		2-1/4	CB-2228-18
		2-1/2	CB-2228-20
		3	CB-2228-24
1-3/8	1-3/4	3-1/2	CB-2228-28
		4	CB-2228-32

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ID	OD	LENGTH	REFERENCE				
1-3/8	1-7/8	3	CB-2230-24				
		3-1/2	CB-2230-28				
		4	CB-2230-32				
		4-1/2	CB-2230-36				
1-3/8	2	3	CB-2232-24				
		4	CB-2232-32				
1-3/8	2-1/8	6-1/2	CB-2234-52				
1-7/16	1-5/8	1-3/4	CB-2326-14				
		2-3/4	CB-2326-22				
		3	CB-2326-24				
1-7/16	1-11/16	2-1/2	CB-2327-20				
		3	CB-2327-24				
		3-1/2	CB-2327-28				
		4	CB-2327-32				
1-7/16	1-3/4	2-1/4	CB-2328-18				
		3	CB-2328-24				
		4	CB-2328-32				
1-7/16	1-13/16	3	CB-2329-24				
		3-1/4	CB-2329-26				
		3-1/2	CB-2329-28				
		4	CB-2329-32				
1-7/16	1-7/8	3	CB-2330-24				
		4	CB-2330-32				
		4-1/2	CB-2330-36				
1-7/16	1-15/16	2	CB-2331-16				
		3	CB-2331-24				
		3-1/2	CB-2331-28				
		4	CB-2331-32				
		4-1/2	CB-2331-36				
1-7/16	2	4	CB-2332-32				
		1-1/2	1-5/8	2	CB-2426-16		
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1-1/2	1-3/4					1	CB-2428-08
						1-1/4	CB-2428-10
		1-1/2	CB-2428-12				
		1-3/4	CB-2428-14				
		2	CB-2428-16				
		2-1/4	CB-2428-18				
		2-1/2	CB-2428-20				
		3	CB-2428-24				
		3-1/2	CB-2428-28				
		4	CB-2428-32				
		4-1/2	CB-2428-36				
		5	CB-2428-40				
		5-1/2	CB-2428-44				
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		1-1/2	1-7/8	1-1/2	CB-2430-12		
2	CB-2430-16						
2-1/2	CB-2430-20						
2-3/4	CB-2430-22						
3	CB-2430-24						
4	CB-2430-32						
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		2-1/2	CB-2432-20				
		3	CB-2432-24				
		3-1/2	CB-2432-28				
1-1/2	2-1/8	3	CB-2434-24				
		4	CB-2434-32				
		1-1/2	2-1/4	3	CB-2436-24		
				4	CB-2436-32		
5	CB-2436-40						
6-1/2	CB-2436-52						
1-9/16	1-13/16	3	CB-2529-24				
		3-1/2	CB-2529-28				
		4	CB-2529-32				
1-9/16	1-15/16	3-1/2	CB-2531-28				
		4-1/2	CB-2531-36				
1-5/8	1-7/8	2-1/4	CB-2630-18				
		3	CB-2630-24				
		3-3/4	CB-2630-30				
1-5/8	2	1-3/4	CB-2632-14				
		2-1/2	CB-2632-20				
		3	CB-2632-24				
		3-1/2	CB-2632-28				
		4	CB-2632-32				
		4-1/2	CB-2632-36				
1-5/8	2-1/8	3	CB-2634-24				
		4	CB-2634-32				
		4-1/2	CB-2634-36				
		5	CB-2634-40				
		1-11/16	1-15/16	3	CB-2731-24		
3-1/2	CB-2731-28						
1-11/16	2			3-1/2	CB-2732-28		
				4-1/2	CB-2732-36		
		1-11/16	2-1/16	3	CB-2733-24		
				3-1/2	CB-2733-28		
4	CB-2733-32						
4-1/2	CB-2733-36						
5	CB-2733-40						
1-11/16	2-3/16	5-1/2	CB-2733-44				
		2	CB-2735-16				
		2-1/2	CB-2735-20				
		3	CB-2735-24				
1-11/16	2-1/4	3-1/2	CB-2735-28				
		4	CB-2735-32				
		4-1/2	CB-2735-36				
		5-1/2	CB-2735-44				
1-11/16	2-1/4	3	CB-2736-24				
		4-1/2	CB-2736-36				
1-3/4	2	1-1/2	CB-2832-12				
		2	CB-2832-16				
		2-1/4	CB-2832-18				
		2-1/2	CB-2832-20				
		1-3/4	2	3	CB-2832-24		
				4	CB-2832-28		
4-1/2	CB-2832-32						
1-3/4	2-1/16			3-1/2	CB-2833-28		
				1-3/4	2-1/8	2-1/2	CB-2834-20
						2-3/4	CB-2834-22
		3-1/4	CB-2834-26				
		3-1/2	CB-2834-28				
		1-3/4	2-1/8	4	CB-2834-32		
4-1/4	CB-2834-34						
5	CB-2834-40						
1-3/4	2-1/4	1-3/4	CB-2836-14				
		2	CB-2836-16				
		2-1/2	CB-2836-20				
1-3/4	2-3/8	3	CB-2836-24				
		3-1/2	CB-2836-28				
		4	CB-2836-32				
		4-1/4	CB-2836-34				
		5	CB-2836-40				
1-3/4	2-3/8	3-1/2	CB-2838-28				
		4-1/2	CB-2838-36				
		5	CB-2838-40				
1-3/4	2-1/2	6-1/2	CB-2840-52				
		1-13/16	2-3/16	4	CB-2935-32		
5-1/4	CB-2935-42						
1-13/16	2-5/16			4	CB-2937-32		
		5	CB-2937-40				
1-7/8	2-1/8	2-1/2	CB-3034-20				
		3	CB-3034-24				
		4	CB-3034-32				
		1-7/8	2-1/4	3	CB-3036-24		
3-1/4	CB-3036-26						
4	CB-3036-32						
5	CB-3036-40						
1-7/8	2-3/8			3	CB-3038-24		
		4	CB-3038-32				
		5-1/4	CB-3038-42				
1-15/16	2-3/16	2	CB-3135-16				
		3	CB-3135-24				
		4	CB-3135-32				
1-15/16	2-1/4	3	CB-3136-24				
		4-1/2	CB-3136-36				
1-15/16	2-5/16	3-1/2	CB-3137-28				
		4	CB-3137-32				
		5	CB-3137-40				
		5-1/2	CB-3137-44				
		6-1/4	CB-3137-50				
1-15/16	2-3/8	3	CB-3138-24				
		4	CB-3138-32				
		5-1/2	CB-3138-44				
1-15/16	2-7/16	3	CB-3139-24				
		4	CB-3139-32				
		5	CB-3139-40				
		5-1/2	CB-3139-44				
1-15/16	2-1/2	3	CB-3140-24				
		5	CB-3140-40				

ID	OD	LENGTH	REFERENCE		
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		2-1/2	CB-2432-20		
		3	CB-2432-24		
		3-1/2	CB-2432-28		
		4	CB-2432-32		
		4-1/2	CB-2432-36		
1-1/2	2-1/8	3	CB-2434-24		
		4	CB-2434-32		
1-1/2	2-1/4	3	CB-2436-24		
		4	CB-2436-32		
		5	CB-2436-40		
		6-1/2	CB-2436-52		
1-9/16	1-13/16	3	CB-2529-24		
		3-1/2	CB-2529-28		
		4	CB-2529-32		
1-9/16	1-15/16	3-1/2	CB-2531-28		
		4-1/2	CB-2531-36		
1-5/8	1-7/8	2-1/4	CB-2630-18		
		3	CB-2630-24		
		3-3/4	CB-2630-30		
1-5/8	2	1-3/4	CB-2632-14		
		2-1/2	CB-2632-20		
		3	CB-2632-24		
		3-1/2	CB-2632-28		
		4	CB-2632-32		
		4-1/2	CB-2632-36		
1-5/8	2-1/8	5	CB-2632-40		
		5-1/2	CB-2632-44		
		3	CB-2634-24		
		4	CB-2634-32		
		4-1/2	CB-2634-36		
1-11/16	1-15/16	3	CB-2731-24		
		3-1/2	CB-2731-28		
1-11/16	2	3-1/2	CB-2732-28		
		4-1/2	CB-2732-36		
1-11/16	2-1/16	3	CB-2733-24		
		3-1/2	CB-2733-28		
		4	CB-2733-32		
		4-1/2	CB-2733-36		
		5	CB-2733-40		
1-11/16	2-3/16	5-1/2	CB-2733-44		
		2	CB-2735-16		
		2-1/2	CB-2735-20		
		3	CB-2735-24		
1-11/16	2-1/4	3-1/2	CB-2735-28		
		4	CB-2735-32		
		4-1/2	CB-2735-36		
		5-1/2	CB-2735-44		
1-11/16	2-1/4	3	CB-2736-24		
		4-1/2	CB-2736-36		
1-3/4	2	1-1/2	CB-2832-12		
		2	CB-2832-16		
		2-1/4	CB-2832-18		
		2-1/2	CB-2832-20		
		1-3/4	2	3	CB-2832-24
				4	CB-2832-28
4-1/2	CB-2832-32				
1-3/4	2			3	CB-2832-24
				4	CB-2832-28
				4-1/2	CB-2832-32
		5	CB-2832-36		
		5-1/2	CB-2832-40		
		6	CB-2832-44		

ID	OD	LENGTH	REFERENCE
1-3/4	2	3	CB-2832-24
		4	CB-2832-32
		4-1/2	CB-2832-36
		5-1/4	CB-2832-42
1-3/4	2-1/16	3-1/2	CB-2833-28
1-3/4	2-1/8	2-1/2	CB-2834-20
		2-3/4	CB-2834-22
		3-1/4	CB-2834-26
		3-1/2	CB-2834-28
		4	CB-2834-32
1-3/4	2-1/4	4-1/4	CB-2834-34
		5	CB-2834-40
		5-1/2	CB-2834-44
		1-3/4	CB-2836-14
		2	CB-2836-16
1-3/4	2-3/8	2-1/2	CB-2836-20
		3	CB-2836-24
		3-1/2	CB-2836-28
		4	CB-2836-32
		4-1/4	CB-2836-34
1-3/4	2-3/8	5	CB-2836-40
		3-1/2	CB-2838-28
		4-1/2	CB-2838-36
1-3/4	2-1/2	5	CB-2838-40
		6-1/2	CB-2840-52
		1-13/16	2-3/16	4	CB-2935-32
5-1/4	CB-2935-42		
1-13/16	2-5/16	4	CB-2937-32
		5	CB-2937-40
1-7/8	2-1/8	2-1/2	CB-3034-20
		3	CB-3034-24
		4	CB-3034-32
		1-7/8	2-1/4
3-1/4	CB-3036-26		
4	CB-3036-32		
5	CB-3036-40		
1-7/8	2-3/8			3	CB-3038-24
		4	CB-3038-32
		5-1/4	CB-3038-42
1-15/16	2-3/16	2	CB-3135-16
		3	CB-3135-24
		4	CB-3135-32
1-15/16	2-1/4	3	CB-3136-24
		4-1/2	CB-3136-36
1-15/16	2-5/16	3-1/2	CB-3137-28
		4	CB-3137-32
		5	CB-3137-40
		5-1/2	CB-3137-44
		6-1/4	CB-3137-50
1-15/16	2-3/8	3	CB-3138-24
		4	CB-3138-32
		5-1/2	CB-3138-44
1-15/16	2-7/16	3	CB-3139-24
		4	CB-3139-32
		5	CB-3139-40
		5-1/2	CB-3139-44
1-15/16	2-1/2	3	CB-3140-24
		5	CB-3140-40

RELIABLE BRONZE & MFG., INC.

763-689-4143
1-800-445-4374

R-CON CAST BRONZE BEARINGS SAE 660 (Sleeve Bearings)








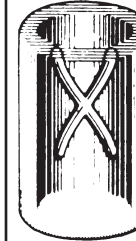
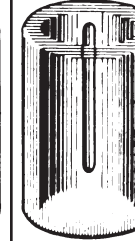

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		3-3/4	CB-3236-30
		4	CB-3236-32
		4-1/2	CB-3236-36
2	2-3/8	5	CB-3236-40
		2-1/2	CB-3238-20
		3	CB-3238-24
		3-1/2	CB-3238-28
		4	CB-3238-32
2	2-1/2	4-1/2	CB-3238-36
		2	CB-3240-16
		2-1/2	CB-3240-20
		3	CB-3240-24
		3-1/2	CB-3240-28
		4	CB-3240-32
		4-1/2	CB-3240-36
2	2-5/8	5	CB-3240-40
		5-1/2	CB-3240-44
		6	CB-3240-48
		4	CB-3242-32
		2	2-3/4
6-1/2	CB-3244-52		
2-1/8	2-1/2	3	CB-3440-24
		4	CB-3440-32
2-1/8	2-5/8	4	CB-3442-32
		5	CB-3442-40
		6	CB-3442-48
2-3/16	2-5/8	4	CB-3542-32
		5	CB-3542-40
2-3/16	2-11/16	3-1/2	CB-3543-28
		4	CB-3543-32
		4-1/2	CB-3543-36
		5	CB-3543-40
2-3/16	2-3/4	4-1/2	CB-3544-36
		6	CB-3544-48
2-3/16	2-7/8	4-1/2	CB-3546-36
2-1/4	2-1/2	3	CB-3640-24
		3-1/2	CB-3640-28
		4	CB-3640-32
2-1/4	2-5/8	3	CB-3642-24
		4	CB-3642-32
		5	CB-3642-40
2-1/4	2-11/16	4-3/4	CB-3643-38
2-1/4	2-3/4	3	CB-3644-24
		3-1/2	CB-3644-28
		4	CB-3644-32
		4-1/2	CB-3644-36
		5	CB-3644-40
		6	CB-3644-48
2-1/4	3	6-1/2	CB-3644-52
		3-1/2	CB-3648-28
		5	CB-3648-40
2-1/4	3-1/8	6-1/2	CB-3650-52
		2-3/8	CB-3844-32
		5	CB-3844-40
2-3/8	2-3/4	6	CB-3844-48
		4	CB-3846-32
2-3/8	2-7/8	5	CB-3846-40
		6	CB-3846-48

ID	OD	LENGTH	REFERENCE
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2-7/16	2-7/8	3	CB-3946-24
		5	CB-3946-40
2-7/16	2-15/16	4	CB-3947-32
		5	CB-3947-40
		6-1/4	CB-3947-50
2-7/16	3	3-3/4	CB-3948-30
		5	CB-3948-40
		6-1/4	CB-3948-50
2-1/2	2-3/4	3	CB-4044-24
		4	CB-4044-32
		5	CB-4044-40
2-1/2	2-7/8	3-1/4	CB-4046-26
		4-1/2	CB-4046-36
		5-1/2	CB-4046-44
2-1/2	3	3	CB-4048-24
		3-3/4	CB-4048-30
		4	CB-4048-32
		5	CB-4048-40
		6	CB-4048-48
		7	CB-4048-56
		2-1/2	3-1/8	3-1/2	CB-4050-28
4	CB-4050-32		
4-1/2	CB-4050-36		
6-3/4	CB-4050-54		
2-1/2	3-1/4	4	CB-4052-32
		5	CB-4052-40
		6	CB-4052-48
		7-1/4	CB-4052-58
		6-1/2	CB-4056-52
2-5/8	3	3	CB-4248-24
		4	CB-4248-32
		5	CB-4248-40
2-5/8	3-1/8	5	CB-4250-40
		6	CB-4250-48
		7-1/4	CB-4250-58
		7	CB-4252-56
2-5/8	3-3/8	6-1/2	CB-4254-52
2-11/16	3-3/16	4	CB-4351-32
		5	CB-4351-40
		6-1/4	CB-4351-50
2-3/4	3-1/8	4	CB-4450-32
		5	CB-4450-40
		6	CB-4450-48
2-3/4	3-1/4	4	CB-4452-32
		5	CB-4452-40
		6	CB-4452-48
		7	CB-4452-56
2-3/4	3-3/8	4	CB-4454-32
		6-1/2	CB-4454-52
2-3/4	3-1/2	6-1/2	CB-4456-52
		2-7/8	3-3/8	4	CB-4654-32
2-7/8	3-1/2	6	CB-4654-48
		8	CB-4654-64
		4-1/2	CB-4656-36
2-15/16	3-7/16	6-3/4	CB-4656-54
		3-1/2	CB-4755-28
		5	CB-4755-40
2-15/16	3-7/16	6-1/2	CB-4755-52

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		8	CB-4854-64
3	3-1/2	3	CB-4856-24
		4	CB-4856-32
		4-1/2	CB-4856-36
		5-1/2	CB-4856-44
		6	CB-4856-48
		9	CB-4856-72
3	3-5/8	5	CB-4858-40
		6-1/2	CB-4858-52
3	3-3/4	8	CB-4858-64
		6-1/4	CB-4860-50
3	4	6-1/2	CB-4864-52
3-1/4	3-1/2	4	CB-5256-32
3-1/4	3-3/4	5	CB-5260-40
		6	CB-5260-48
		9	CB-5260-72
3-7/16	3-15/16	4-1/2	CB-5563-36
		6-1/2	CB-5563-52
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		4	CB-5664-32
		5-1/2	CB-5664-44
		6	CB-5664-48
3-1/2	4-1/8	7	CB-5664-56
		6	CB-5666-48
3-1/2	4-1/4	4-1/2	CB-5668-36
		7	CB-5668-56
		9-3/4	CB-5668-78
3-3/4	4-1/4	5	CB-6068-40
		7	CB-6068-56
3-3/4	4-1/2	6-1/2	CB-6072-52
		4	CB-6472-32
		6	CB-6472-48
4	4-1/2	7	CB-6472-56
		4	CB-6476-40
4	4-3/4	5	CB-6476-48
		6	CB-6476-48
		7	CB-6476-56
4	5	5	CB-6480-40
		6	CB-6480-48
		7	CB-6480-56
4-1/4	4-3/4	5	CB-6876-40
		6	CB-6876-48
		7	CB-6876-56
4-1/4	5	5	CB-6880-40
		6	CB-6880-48
		7	CB-6880-56
4-1/2	5	6	CB-7280-48
		7	CB-7280-56
		8	CB-7280-64
4-1/2	5-1/2	6	CB-7288-48
		7	CB-7288-56
		8	CB-7288-64
5	5-1/2	6	CB-8088-48
		7	CB-8088-56
		8	CB-8088-64
5	6	7	CB-8096-56
		8	CB-8096-64
		9	CB-8096-72






STANDARD GROOVES

Oil & Grease

T Y P E G R O O V E	Single Loop	Figure Eight	Straight & Circular	Double Loop	Double Fig. Eight	Half Fig. Eight	Straight	Circular
								
BUCKEYE	A	D	C	B	E	F	Straight	Circular
BUNTING	1	4	3	2	5	11	Straight	Circular
JOHNSON	A	B	C	D	E	F	G	H
RANDALL	A	B	Str. & Cir.	D	E	F	G	H

Double Loop and Double Figure Eight recommended for grease only.

Graphite

T Y P E G R O O V E	Multiple Circular	Loop	Plug Type	Multiple Loops (7 or 8)	Multiple Loops (3 or 4)
					
BUCKEYE	H	K	J	G	L
BUNTING	9	5G	8	10	7A
JOHNSON	L	M	P	O	N
RANDALL	RG7	RG5	RG8	2-RG5	RG6

Complete graphiting and grooving facilities

R-con

**Continuous Cast
Bronze Bars Alloy 932 (SAE 660)
763-689-4143
1-800-445-4374**

13 Inch

Finish Allowances; Actual sizes provide approximate allowances for finish as follows:

Outside Diameter	Finish (I.D. & O.D.)
0-4"	1/32"
4-5"	1/16"
5"+	3/32"

I.D.	O.D.	ITEM NUMBER	AVG. WT.		I.D.	O.D.	ITEM NUMBER	AVG. WT.		I.D.	O.D.	ITEM NUMBER	AVG. WT.	
SOLID	1/2	106501	.98		1/2	1	106002	2.82		1	1-1/4	106042	2.45	
	5/8	106502	1.47			1-1/8	106003	3.80			1-3/8	106043	3.68	
	3/4	106503	2.08			1-1/4	106004	4.78			1-1/2	106044	4.91	
	7/8	106504	2.82			1-3/8	106005	5.89			1-5/8	106045	6.25	
	1	106505	3.56			1-1/2	106006	7.24			1-3/4	106046	7.48	
	1-1/8	106506	4.54			1-3/4	106007	9.81			1-7/8	106047	8.95	
	1-1/4	106507	5.64			2	106008	13.00			2	106048	10.67	
	1-3/8	106508	6.75			5/8	1	106010			2.45	2-1/8	106049	12.51
	1-1/2	106509	7.97				1-1/8	106011			3.43	2-1/4	106050	14.35
	1-5/8	106510	9.20				1-1/4	106012			4.42	2-3/8	106051	16.31
	1-3/4	106511	10.42				1-3/8	106013			5.52	2-1/2	106052	18.27
1-7/8	106512	12.02	1-1/2	106014	6.75	2-3/4	106053	22.81						
	2	106513	13.86		3/4	1	106019	1.84	3	106054	27.59			
	2-1/8	106514	15.58			1-3/4	106016	9.44	3-1/4	106055	32.75			
	2-1/4	106515	17.29			2	106017	12.26	3-1/2	106056	38.75			
	2-3/8	106516	19.38			1-1/8	1-3/8	106013	5.52	4	106057	52.98		
	2-1/2	106517	21.46				1-1/2	106014	6.75	1-3/8	106058	2.70		
	2-5/8	106518	23.67				1-1/4	106012	4.42	1-1/2	106059	3.92		
	2-3/4	106519	25.88				1-3/8	106013	5.52	1-5/8	106060	5.27		
	2-7/8	106520	28.21			1-3/4	106016	9.44	1-3/4	106061	6.62			
	3	106521	30.54			1-1/8	106020	2.94	1-7/8	106062	8.09			
	3-1/4	106522	35.69			1-1/4	106021	3.92	2	106063	9.81			
	3-1/2	106523	41.70			1-3/8	106022	5.03	2-1/8	106064	11.65			
	3-3/4	106524	48.08			1-1/2	106023	6.25	2-1/2	106067	17.42			
		4	106525			55.07	1-3/4	106025	8.95	1-1/4	1-1/2	106070	3.07	
4-1/4		106526	62.18	2	106027	12.14	1-5/8	106071	4.42					
4-1/2		106527	69.29	2-1/4	106029	15.70	1-3/4	106072	5.89					
4-3/4		106528	77.26	2-1/2	106030	19.75	1-7/8	106073	7.60					
	5	106529	85.36	7/8	1-1/8	106032	2.21	2	106074	8.95				
	5-1/2	106530	104.37		1-1/4	106033	3.19	2-1/8	106075	10.67				
		6	106531		123.99	1-3/8	106034	4.42	2-1/4	106076	12.51			
6-1/2		106532	145.94	1-1/2	106035	5.64	2-3/8	106077	14.47					
	7	106533	167.77	1-5/8	106036	6.99	2-1/2	106078	16.68					
	7-1/2	106534	191.08	1-3/4	106037	8.34	2-3/4	106080	21.09					
	8	106535	217.81	2	106039	11.53	3	106082	25.75					
	9	106536	275.33				3-1/4	106083	31.03					
	10	106537	332.73				3-1/2	106084	36.79					
							4	106085	50.28					

R-con C93200 (SAE 660) Centrifugally Machined Bars Are also available in 13 in., 26¼ in., and 39½ in. lengths.

C93200 (SAE 660) Bronze Bars

Chemical Composition . . .	Copper	83%
	Tin	7%
	Lead	7%
	Zinc	3%
Tensile Strength		35,000 PSI
Yield Strength		20,000 PSI
Elongation in 2 Inches		10%
Brinell Number @ 500 KG Load		55-65
Equivalent Specifications: C93200, SAE 660, ASTM B505; QQ-C 390A		

**LONGER LENGTH BARS UP TO
105" ARE AVAILABLE.**

WE DEAL WITH ALL THE BRONZES.

R-CON CONTINUOUS CAST BRONZE BARS

Stock sizes and approximate weights per standard 13" length.

I.D.	O.D.	ITEM NUMBER	AVG. WT.		I.D.	O.D.	ITEM NUMBER	AVG. WT.		I.D.	O.D.	ITEM NUMBER	AVG. WT.		
1-3/8	1-5/8	106086	3.31		2-1/4	2-3/4	106169	9.93		4	4-1/2	106245	18.64		
	1-3/4	106087	4.78			2-7/8	106170	12.26			4-3/4	106246	26.61		
	1-7/8	106088	6.25			3	106171	14.72			5	106247	34.58		
	2	106089	7.97			3-1/8	106172	17.17			5-1/4	106248	43.91		
	2-1/8	106090	9.69			3-1/4	106173	19.19			5-1/2	106249	53.72		
	2-1/4	106091	11.53			3-1/2	106174	25.51			6	106250	73.58		
	2-3/8	106092	13.49			3-3/4	106175	31.15			6-1/2	106251	95.29		
	2-1/2	106093	15.58			4	106176	39.37			7	106252	118.35		
	3	106096	24.77			4-1/4	106177	46.60			7-1/2	106253	141.04		
											8	106254	169.25		
1-1/2	1-3/4	106097	3.56		2-3/8	2-3/4	106178	7.85		4-1/4	5	106256	28.21		
	1-7/8	106098	5.15			2-7/8	106179	10.30			5-1/4	106257	38.02		
	2	106099	6.87			3	106180	12.63			5-1/2	106258	47.22		
	2-1/8	106100	8.58			3-1/4	106181	17.91			6	106259	66.72		
	2-1/4	106101	10.30		3-1/2	106182	23.79		6-1/2	106260	88.30				
	2-3/8	106102	12.26		3-3/4	106183	30.05								
	2-1/2	106103	14.47		4	106184	37.53								
	2-3/4	106105	18.89						4-1/2	5	106261	20.97			
	3	106106	23.67		2-1/2	2-7/8	106186	8.97		5-1/2	106262	40.59			
	3-1/4	106107	28.70			3	106187	10.79		6	106263	59.73			
	3-1/2	106108	34.71			3-1/8	106188	13.37		6-1/2	106264	80.94			
	3-3/4	106109	40.96			3-1/4	106189	15.94	7	106265	102.77				
	4	106110	48.93		3-1/2	106190	21.71		4-3/4	5-3/4	106266	42.92			
	4-1/2	106111	62.92		3-3/4	106191	27.84			6	106267	52.49			
				4	106192	35.69		6-1/2		106268	74.08				
				4-1/4	106193	42.92									
1-5/8	2	106113	5.64		4-1/2	106194	50.28		5	5-1/2	106270	26.12			
	2-1/8	106114	7.36		4-3/4	106195	58.25			6	106271	44.52			
	2-1/4	106115	9.08		5	106196	65.98			6-1/2	106272	65.61			
	2-1/2	106117	13.12		5-1/2	106197	85.60			7	106273	88.30			
	2-3/4	106119	17.06		6	106198	104.25			7-1/2	106274	113.20			
1-3/4	2	106121	4.17		2-5/8	3-1/2	106200	19.87	8	8	106275	137.48			
	2-1/8	106122	5.89			3-3/4	106201	25.75			9	106276	195.61		
	2-1/4	106123	7.73								10	106277	264.29		
	2-3/8	106124	9.69			2-3/4	3-1/4	106204		11.77	5-1/4	7	106278	80.94	
	2-1/2	106125	11.77		3-1/2		106205	17.42		5-1/2		6	106279	27.86	
	2-5/8	106126	13.98		3-3/4		106206	23.79				6-1/2	106280	49.55	
	2-3/4	106127	16.19		4		106207	31.27				7	106281	72.11	
	3	106129	21.09		4-1/4	106208	38.39		7-1/2		106282	95.66			
	3-1/4	106130	26.25		4-1/2	106209	45.99		8	106283	121.42				
	3-1/2	106131	32.38		4-3/4	106210	53.96		5-3/4	6-3/4	106284	51.39			
	3-3/4	106132	38.02							7-1/2	106285	86.22			
	4	106133	45.99		2-7/8	4	106212	29.31			8	106286	113.81		
	4-1/4	106134	52.74			3	3-1/2	106214		12.75	6	6-1/2	106287	31.15	
						3-3/4	106215	18.64		6-3/4		106288	42.07		
				4		106216	27.23		7	106289		53.35			
				4-1/4	106217	33.97		7-1/2	106290	77.51					
1-7/8	2-1/4	106136	6.25		4-1/2	106218	41.08		8	106291	104.00				
	2-3/8	106137	8.34		4-3/4	106219	49.06		8-1/2	106292	131.72				
	2-1/2	106138	10.42		5	106220	57.40		9	106293	161.15				
	2-5/8	106139	12.51		5-1/2	106221	76.65		9-1/2	106294	228.85				
	2-3/4	106140	14.59		6	106222	96.27		6-1/2	7-1/2	106295	57.64			
	3	106142	19.50		6-1/2	106223	117.12			8	106296	84.99			
					3-1/4	3-3/4	106224	15.70		8	106297	137.73			
						4	106225	21.71			9	106298	173.78		
						4-1/4	106226	28.82		9-1/2	106316	173.78			
						4-1/2	106227	36.18							
	2	2-1/4	106144	4.66		4-3/4	106228	44.15		7	8	106298	62.92		
		2-3/8	106145	6.50		5	106229	52.12			9	106299	118.96		
		2-1/2	106146	8.83		5-1/2	106230	71.50			9-1/2	106317	148.27		
		2-5/8	106147	10.92							10	106300	181.51		
2-3/4		106148	13.25		3-1/2	4	106231	16.31	7-1/2	8-1/2	106321	66.59			
2-7/8		106149	15.58			4-1/4	106232	23.18			9-1/2	106318	125.22		
3		106150	18.03			4-1/2	106233	30.66			8	9	106302	70.03	
3-1/4		106151	23.55			4-3/4	106234	38.75				9-1/2	106319	103.51	
3-1/2		106152	28.94		5	106235	47.22		10	106303		136.50			
3-3/4		106153	35.32		5-1/2	106236	65.61		11	106304		201.62			
4		106154	43.29		6	106237	85.36		12	106305	284.53				
4-1/2		106155	57.40		6-1/2	106238	107.19		8-1/2	9-1/2	106320	75.06			
5		106156	73.22							10-1/2	106306	143.98			
5-1/2		106157	92.59		3-3/4	4-1/2	106240	25.02		9	10	106307	78.98		
6	106158	112.34		4-3/4		106241	32.99				10-1/2	106308	111.97		
				5		106242	41.08		11		106309	151.58			
				5-1/2		106243	60.09		12		106310	228.97			
2-1/8	2-5/8	106160	9.32		6	106244	79.84		9-1/2	10-1/2	106311	82.42			
	2-3/4	106161	11.53							11	106312	120.19			
	2-7/8	106162	13.86							10	11	106313	86.46		
	3	106163	16.19								12	106314	161.98		
	3-1/4	106164	21.58						11	12	106315	94.80			
	3-1/2	106165	27.72												

105 Continuous Cast Bronze Bars

Stock sizes and approximate weights per standard 105" length.

I.D.	O.D.	ITEM NUMBER	APPROX. LBS./IN.	I.D.	O.D.	ITEM NUMBER	APPROX. LBS./IN.	I.D.	O.D.	ITEM NUMBER	APPROX. LBS./IN.			
1-3/8	1-5/8	BC1113	.264	2-1/4	2-3/4	BC1822	.764	4-1/4	5	BC3440	2.170			
	1-3/4	BC1114	.377		2-7/8	BC1823	.943		5-1/4	BC3442	3.019			
	1-7/8	BC1115	.481		3	BC1824	1.132		5-1/2	BC3444	3.726			
	2	BC1116	.642		3-1/8	BC1825	1.321		6	BC3448	5.132			
	2-1/8	BC1117	.774		3-1/4	BC1826	1.538	6-1/2	BC3452	6.793				
	2-1/4	BC1118	.915		3-1/2	BC1828	1.962	4-1/2	5	BC3640	1.613			
	2-3/8	BC1119	1.055		3-3/4	BC1830	2.472		5-1/4	BC3642	2.400			
	2-1/2	BC1120	1.198		4	BC1832	3.028		5-1/2	BC3644	3.123			
	2-5/8	BC1121	1.410		4-1/4	BC1834	3.585		6	BC3648	4.594			
	3	BC1124	1.906		2-3/8	2-3/4	BC1922		.623	6-1/2	BC3652	6.226		
	1-1/2	1-3/4	BC1214		.283	2-7/8	BC1923	.821	7	BC3656	7.906			
		1-7/8	BC1215		.406	3	BC1924	1.000	4-3/4	5-1/4	BC3842	1.858		
		2	BC1216		.547	3-1/4	BC1926	1.377		5-3/4	BC3846	3.302		
2-1/8		BC1217	.660	3-1/2	BC1928	1.830	6	BC3848		4.038				
2-1/4		BC1218	.830	3-3/4	BC1930	2.311	6-1/2	BC3852		5.698				
2-3/8		BC1219	.981	4	BC1932	2.887	7	BC3856	7.439					
2-1/2		BC1220	1.142	2-1/2	3	BC2024	.868	5	5-1/2	BC4044	2.009			
2-3/4		BC1222	1.453		3-1/8	BC2025	1.028		6	BC4048	3.425			
3		BC1224	1.821		3-1/4	BC2026	1.274		6-1/2	BC4052	5.017			
3-1/4		BC1226	2.274		3-1/2	BC2028	1.717		7	BC4056	6.792			
3-1/2		BC1228	2.670		3-3/4	BC2030	2.142		7-1/2	BC4060	8.708			
3-3/4		BC1230	3.151		4	BC2032	2.745		8	BC4064	10.575			
4		BC1232	3.764		4-1/4	BC2034	3.302		9	BC4072	15.047			
4-1/2		BC1236	4.840		4-1/2	BC2036	3.868		10	BC4080	20.330			
1-5/8		2	BC1316		.434	4-3/4	BC2038		4.481	5-1/4	7	BC4256	6.226	
		2-1/8	BC1317		.594	5	BC2040		5.075		5-1/2	6	BC4448	2.198
		2-1/4	BC1318	.736	5-1/2	BC2044	6.585	6-1/2	BC4452	3.811				
	2-3/8	BC1319	.896	6	BC2048	8.019	7	BC4456	5.547					
	2-1/2	BC1320	1.009	2-5/8	3-1/2	BC2128	1.528	7-1/2	BC4460	7.358				
	2-5/8	BC1321	1.220		3-3/4	BC2130	1.981	8	BC4464	9.340				
2-3/4	BC1322	1.358	2-3/4	3-1/4	BC2226	.906	5-3/4	6-1/4	BC4650	2.220				
1-3/4	2	BC1416		.330	3-1/2	BC2228		1.340	6-3/4	BC4654	3.953			
	2-1/8	BC1417		.453	4	BC2230		1.830	7-1/4	BC4658	5.743			
	2-1/4	BC1418		.632	4-1/4	BC2232		2.406	7-1/2	BC4660	6.632			
	2-3/8	BC1419		.774	4-1/2	BC2236		3.538	8	BC4664	8.755			
	2-1/2	BC1420		.943	4-3/4	BC2238	4.151	6	6-1/2	BC4852	2.396			
	2-5/8	BC1421		1.075	5-3/4	BC2246	7.115		6-3/4	BC4854	3.236			
	2-3/4	BC1422		1.283	2-7/8	4	BC2332		2.255	7	BC4856	4.104		
	3	BC1424		1.623		3	3-1/2		BC2428	1.019	7-1/2	BC4860	5.962	
	3-1/4	BC1426		2.075	3-3/4		BC2430		1.434	8	BC4864	8.000		
	3-1/2	BC1428		2.491	4		BC2432	2.094	8-1/2	BC4868	10.132			
	3-3/4	BC1430		2.925	4-1/4		BC2434	2.613	9	BC4872	12.396			
	4	BC1432		3.538	4-1/2		BC2436	3.160	10	BC4880	17.604			
	4-1/4	BC1434	4.057	4-3/4	BC2438		3.774	6-1/2	7-1/2	BC5260	4.434			
1-7/8	2-1/4	BC1518	.481	5	BC2440		4.415		8	BC5264	6.538			
	2-1/8	BC1519	.660	5-1/2	BC2444		5.896		9	BC5272	10.877			
	2-1/2	BC1520	.802	6	BC2448		7.405		9-1/2	BC5276	13.368			
	2-5/8	BC1521	.962	6-1/2	BC2452		9.009	6-3/4	7-3/4	BC5462	4.534			
	2-3/4	BC1522	1.189	3-1/4	3-3/4	BC2630	1.208		7	8	BC5664	4.840		
	3	BC1524	1.557		4	BC2632	1.670	9		BC5672	9.151			
2	2-1/4	BC1618	.368		4-1/4	BC2634	2.217	9-1/2	BC5676	11.717				
	2-3/8	BC1619	.528		4-1/2	BC2636	2.783	10	BC5680	14.330				
	2-1/2	BC1620	.708		4-3/4	BC2638	3.395	11	BC5688	19.811				
	2-5/8	BC1621	.906		5	BC2640	4.009	7-1/2	8-1/2	BC6068	5.123			
	2-3/4	BC1622	1.047		5-1/2	BC2644	5.500		9-1/2	BC6076	9.632			
	2-7/8	BC1623	1.245		3-1/2	4	BC2832	1.255	10	BC6080	12.248			
	3	BC1624	1.434			4-1/4	BC2834	1.783	8	9	BC6472	5.387		
	3-1/4	BC1626	1.811			4-1/2	BC2836	2.358		9-1/2	BC6476	7.962		
	3-1/2	BC1628	2.226			4-3/4	BC2838	2.981		10	BC6480	10.500		
	3-3/4	BC1630	2.717			5	BC2840	3.632		10-1/2	BC6484	13.086		
	4	BC1632	3.330			5-1/2	BC2844	5.047		11	BC6488	16.028		
	4-1/2	BC1636	4.415	6		BC2848	6.566	12		BC6496	21.881			
	5	BC1640	5.632	6-1/2		BC2852	8.245	8-1/2		9-1/2	BC6876	6.000		
5-1/2	BC1644	7.123	3-3/4	4-1/2		BC3036	1.925			10-1/2	BC6884	11.075		
6	BC1648	8.642		4-3/4		BC3038	2.538		11-1/2	BC6892	17.067			
2-1/8	2-5/8	BC1721		.755	5	BC3040	3.160	9	10	BC7280	6.368			
	2-3/4	BC1722		.915	5-1/2	BC3044	4.623		10-1/2	BC7284	8.906			
	2-7/8	BC1723		1.104	6	BC3048	6.142		11	BC7288	11.660			
	3	BC1724		1.245	4	4-1/2	BC3236	1.434	12	BC7296	17.613			
	3-1/4	BC1726		1.717		4-3/4	BC3238	2.047	9-1/2	10-1/2	BC7684	6.690		
	3-1/2	BC1728		2.132		5	BC3240	2.660		11	BC7688	9.245		
	3-3/4	BC1730		2.610		5-1/4	BC3242	3.519	10	11	BC8088	7.000		
	2-1/4	5-1/2		BC1644		7.123	5-1/2	BC3244		4.132	12	BC8096	12.840	
		6		BC1648		8.642	6	BC3248	5.660	11	12	BC8896	7.679	
		2-1/2		2-5/8		BC1721	.755	6-1/2	BC3252		7.330	11-1/2	14-1/2	BC92116	21.981
				2-3/4		BC1722	.915	7	BC3256	9.104	8-1/2		9-1/2	BC6876	6.000
			2-7/8	BC1723		1.104	7-1/2	BC3260	10.849	10-1/2		BC6884	11.075	
			3	BC1724		1.245	8	BC3264	13.019	11-1/2	BC6892	17.067		
3-1/4			BC1726	1.717	3-3/4	4-1/2	BC3036	1.925	9	10	BC7280	6.368		
3-1/2			BC1728	2.132		4-3/4	BC3038	2.538		10-1/2	BC7284	8.906		
3-3/4	BC1730	2.610	5	BC3040		3.160	11	BC7288		11.660				
2-1/4	2-5/8	BC1721	.755	5-1/2		BC3044	4.623	12	BC7296	17.613				
	2-3/4	BC1722	.915	6		BC3048	6.142	9-1/2	10-1/2	BC7684	6.690			
	2-7/8	BC1723	1.104	4		4-1/2	BC3236		1.434	11	BC7688	9.245		
	3	BC1724	1.245			4-3/4	BC3238	2.047	10	11	BC8088	7.000		
	3-1/4	BC1726	1.717			5	BC3240	2.660		12	BC8096	12.840		
	3-1/2	BC1728	2.132			5-1/4	BC3242	3.519	11	12	BC8896	7.679		
	3-3/4	BC1730	2.610			5-1/2	BC3244	4.132		11-1/2	14-1/2	BC92116	21.981	
	2-1/2	2-5/8	BC1721			.755	6	BC3248	5.660		8-1/2	9-1/2	BC6876	6.000
		2-3/4	BC1722			.915	6-1/2	BC3252	7.330	10-1/2		BC6884	11.075	
		2-7/8	BC1723			1.104	7	BC3256	9.104	11-1/2	BC6892	17.067		
		3	BC1724		1.245	7-1/2	BC3260	10.849	9	10	BC7280	6.368		
		3-1/4	BC1726		1.717	8	BC3264	13.019		10-1/2	BC7284	8.906		
		3-1/2	BC1728	2.132	3-3/4	4-1/2	BC3236	1.434	11	BC7288	11.660			
3-3/4		BC1730	2.610	4-3/4		BC3238	2.047	12	BC7296	17.613				
2-3/8		2-5/8	BC1721	.755		5	BC3240	2.660	9-1/2	10-1/2	BC7684	6.690		
	2-3/4	BC1722	.915	5-1/4		BC3242	3.519	11		BC7688	9.245			
	2-7/8	BC1723	1.104	5-1/2		BC3244	4.132	10	11	BC8088	7.000			
	3	BC1724	1.245	6		BC3248	5.660		12	BC8096	12.840			
	3-1/4	BC1726	1.717	6-1/2		BC3252	7.330	11	12	BC8896	7.679			
	3-1/2	BC1728	2.132	7		BC3256	9.104		11-1/2	14-1/2	BC92116	21.981		
3-3/4	BC1730	2.610	7-1/2	BC3260		10.849	8-1/2	9-1/2		BC6876	6.000			
2-5/8	2-3/4	BC1722	.915	8		BC3264		13.019	10-1/2	BC6884	11.075			
	2-7/8	BC1723	1.104	3-3/4		4-1/2		BC3036	1.925	11-1/2	BC6892	17.067		
	3	BC1724	1.245			4-3/4		BC3038	2.538	9	10	BC7280	6.368	
	3-1/4	BC1726	1.717			5		BC3040	3.160		10-1/2	BC7284	8.906	
	3-1/2	BC1728	2.132		5-1/2	BC3044		4.623	11		BC7288	11.660		
	3-3/4	BC1730	2.610		6	BC3048		6.142	12	BC7296	17.613			
	2-3/4	2-5/8	BC1721		.755	6-1/2		BC3048	6.142	9-1/2	10-1/2	BC7684	6.690	
		2-3/4	BC1722		.915	4	4-1/2	BC3						

R-con

Continuous Cast

Aluminum Bronze Bars • Alloy 954 (9-C)

763-689-4143

1-800-445-4374

144 Inch

TUBULAR				TUBULAR				SOLID				
SIZE I.D. and O.D.		PART NUMBER	APPROX. LBS./IN.	SIZE I.D. and O.D.		PART NUMBER	APPROX. LBS./IN.	SIZE I.D. and O.D.	PART NUMBER	APPROX. LBS./IN.		
3/4	1-1/4	AB 610	.278	3	5	AB 2440	3.986	4	AB 32	3.604		
	1-1/2	AB 612	.438		5-1/2	AB 2444	5.104		4-1/4	AB 34	4.042	
	1-3/4	AB 614	.625		6	AB 2448	6.583			4-1/2	AB 36	4.521
	2	AB 616	.833		7	AB 2456	9.424				4-3/4	AB 38	4.951
7/8	1-1/4	AB 710	.244	3-1/4	3-3/4	AB 2630	1.076	5		AB 40		5.618
	1	1-1/2	AB 812		.347	4	AB 2632		1.528	5-1/2	AB 44	6.736
1-3/4		AB 814	.535	4-1/4	AB 2634	1.944	6	AB 48	8.188			
2		AB 816	.743	4-1/2	AB 2636	2.424		6-1/2	AB 52	9.576		
2-1/4		AB 818	.979	5	AB 2640	3.569	7		AB 56	10.854		
2-1/2		AB 820	1.250	3-1/2	4	AB 2832		1.160	8	AB 64	14.160	
3		AB 824	1.847		4-1/4	AB 2834	1.597	15		AB 120	32.716	
1-1/4		1-3/4	AB 1014	.417	4-1/2	AB 2836	2.069		3-3/4	4-3/4	AB 3038	2.313
	2	AB 1016	.632	5	AB 2840	3.326	4	4-1/2		AB 3236	1.292	
	2-1/4	AB 1018	.868	5-1/2	AB 2844	4.444		4-3/4	AB 3238	1.972		
1-1/2	2-1/2	AB 1020	1.132	4-1/2	5	AB 3240	2.521	5-1/2	5	AB 3244	3.674	
	2-3/4	AB 1022	1.389		6	AB 3248	5.181		6-1/2	6	AB 3256	7.910
1-3/4	3	AB 1024	1.757	5-1/2	7	AB 3264	11.285	7-1/2		7	AB 3640	1.708
	3-1/2	AB 1028	2.514		8	AB 3642	2.181		5	8	AB 3644	2.792
1-1/2	1-7/8	AB 1215	.382	4-1/2	5-1/4	AB 3644	2.792	6-1/2		6	AB 3648	4.285
	2	AB 1216	.486		5-1/2	AB 3648	4.285		7-1/2	7	AB 3652	5.688
2-1/4	2-1/4	AB 1218	.729	5	6-1/2	AB 3652	5.688	8		8	AB 3660	8.730
	2-1/2	AB 1220	.993		5-1/2	7-1/2	AB 3660		8.730	5-1/2	5-1/2	AB 4044	1.819
2-3/4	3	AB 1224	1.285	5-3/4		5-3/4	AB 4046	2.507	6-1/2		6	AB 4048
	3	AB 1228	2.389		6	AB 4056	6.194	7-1/2		7	AB 4064	9.444
3-1/2	3-1/2	AB 1230	2.701	6-1/2	8	AB 4064	9.444		8	8	AB 4452	3.632
	4	AB 1232	3.125		5-1/2	6-1/2	AB 4452	3.632		5-3/4	6-3/4	AB 4654	3.681
1-3/4	2-1/8	AB 1417	.444	5		7	AB 4856	3.896	6-1/2		7-1/2	AB 5260	4.027
	2-1/4	AB 1418	.556		6-1/2	8	AB 4864	7.174		7	8	AB 5664	4.319
2-1/2	2-1/2	AB 1420	.819	6		7	AB 4856	3.896	7		8	AB 5664	4.319
	2-3/4	AB 1422	1.118		6-1/2	8	AB 4864	7.174		7	8	AB 5664	4.319
3	3	AB 1424	1.438	7		8	AB 4864	7.174	7		8	AB 5664	4.319
	3-1/4	AB 1426	1.882		7-1/2	8	AB 4864	7.174		7	8	AB 5664	4.319
3-1/2	3-1/2	AB 1428	2.236	8		8	AB 4864	7.174	7		8	AB 5664	4.319
	3-3/4	AB 1430	2.549		8	8	AB 4864	7.174		7	8	AB 5664	4.319
4	4	AB 1432	2.965	8		8	AB 4864	7.174	7		8	AB 5664	4.319
	2	2-3/8	AB 1619		.493	8	8	AB 4864		7.174	7	8	AB 5664	4.319
2-1/2		AB 1620	.632	8	8		AB 4864	7.174	7	8		AB 5664	4.319
2-3/4	2-3/4	AB 1622	.917		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	3	AB 1624	1.236	8		8	AB 4864	7.174	7		8	AB 5664	4.319
3-1/4	3-1/4	AB 1626	1.674		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	3-1/2	AB 1628	2.042	8		8	AB 4864	7.174	7		8	AB 5664	4.319
3-3/4	3-3/4	AB 1630	2.361		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	4	AB 1632	2.868	8		8	AB 4864	7.174	7		8	AB 5664	4.319
4-1/2	4-1/2	AB 1636	3.764		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	5	AB 1640	4.917	8		8	AB 4864	7.174	7		8	AB 5664	4.319
6	6	AB 1648	7.347		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	2-1/4	2-5/8	AB 1821	.549		8	8	AB 4864	7.174		7	8	AB 5664	4.319
2-3/4		AB 1822	.688	8	8		AB 4864	7.174	7	8		AB 5664	4.319
3	3	AB 1824	1.021		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	3-1/4	AB 1826	1.458	8		8	AB 4864	7.174	7		8	AB 5664	4.319
3-1/2	3-1/2	AB 1828	1.840		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	3-3/4	AB 1830	2.236	8		8	AB 4864	7.174	7		8	AB 5664	4.319
4	4	AB 1832	2.639		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	2-1/2	3	AB 2024	.764		8	8	AB 4864	7.174		7	8	AB 5664	4.319
3-1/4		AB 2026	1.208	8	8		AB 4864	7.174	7	8		AB 5664	4.319
3-1/2	3-1/2	AB 2028	1.590		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	3-3/4	AB 2030	2.014	8		8	AB 4864	7.174	7		8	AB 5664	4.319
4	4	AB 2032	2.382		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	4-1/2	AB 2036	3.306	8		8	AB 4864	7.174	7		8	AB 5664	4.319
4-3/4	4-3/4	AB 2038	3.855		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	5	AB 2040	4.507	8		8	AB 4864	7.174	7		8	AB 5664	4.319
6	6	AB 2048	6.910		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	2-3/4	3-1/4	AB 2226	.938		8	8	AB 4864	7.174		7	8	AB 5664	4.319
3-1/2		AB 2228	1.306	8	8		AB 4864	7.174	7	8		AB 5664	4.319
3-3/4	3-3/4	AB 2230	1.854		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	4	AB 2232	2.188	8		8	AB 4864	7.174	7		8	AB 5664	4.319
4-1/4	4-1/4	AB 2234	2.563		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	4-1/2	AB 2236	3.042	8		8	AB 4864	7.174	7		8	AB 5664	4.319
3	3-1/2	AB 2428	1.014		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	3-3/4	AB 2430	1.424	8		8	AB 4864	7.174	7		8	AB 5664	4.319
4	4	AB 2432	1.847		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	4-1/4	AB 2434	2.264	8		8	AB 4864	7.174	7		8	AB 5664	4.319
4-1/2	4-1/2	AB 2436	2.743		8	8	AB 4864	7.174		7	8	AB 5664	4.319
	SOLID	I.D. ONLY	STOCK ALLOW.	TOLERANCE		1/2	AB 4	.069	3/4		AB 6	.146
2-25"					-.060		+.010 -.030					
	2.25" TO 3.25"	-.080	+.010 -.040									
3.25" AND LARGER				-.100	+.010 -.050							
	O.D. ONLY	STOCK ALLOW.	TOLERANCE			UP TO 2.25"	.060	+.010 -.010				
2.25" TO 3.25"				.080	+.015 -.015							
	3.25" AND LARGER	.100	+.020 -.020									
CUTTING CHARGES – Price on Request.												

R-con
Continuous Cast
Aluminum Bronze
Wear Plate Alloy 954 (9-C)
763-689-4143
1-800-445-4374

144 Inch
Wearplate

NOMINAL SIZE	PART NUMBER	APPROX. LBS./IN.
1/4 x	1	PA 208 .104
	1-1/4	PA 210 .125
	1-1/2	PA 212 .146
	2	PA 216 .194
	2-1/2	PA 220 .236
2-3/4	2	PA 222 .257
	3	PA 224 .285
	4	PA 232 .382
3/8 x	1	PA 308 .139
	1-1/2	PA 312 .201
	2	PA 316 .264
	2-1/2	PA 320 .326
	3	PA 324 .396
	3-1/2	PA 328 .444
	4	PA 332 .514
	5	PA 340 .646
	6	PA 348 .799
1/2 x	1	PA 408 .174
	1-1/4	PA 410 .222
	1-1/2	PA 412 .257
	1-3/4	PA 414 .290
	2	PA 416 .333
	2-1/2	PA 420 .417
	3	PA 424 .500
	3-1/2	PA 428 .576
	4	PA 432 .646
	5	PA 440 .813
	6	PA 448 1.007
	8	PA 464 1.313
5/8 x	1	PA 508 .215
	1-1/2	PA 512 .313
	2	PA 516 .410
	2-1/2	PA 520 .500
	3	PA 524 .597
	4	PA 532 .799
	5	PA 540 .986
	6	PA 548 1.208
3/4 x	3/4	PA 606 .188
	1	PA 608 .250
	1-1/2	PA 612 .368
	2	PA 616 .479
	2-1/2	PA 620 .590
	3	PA 624 .708
	3-1/2	PA 628 .825
	4	PA 632 .931
	5	PA 640 1.146
	6	PA 648 1.417
1 x	1	PA 808 .319
	1-1/4	PA 810 .403
	1-1/2	PA 812 .472
	1-3/4	PA 814 .542
	2	PA 816 .618

Equivalent Specifications:

ASTM B505 C95400

(not to be used for specification purposes)

Chemical Composition

Aluminum10 - 11.5%
 Iron3 - 5%
 CopperBalance

Typical Properties: Continuous Cast

Aluminum Bronze Wear Plate

Tensile Strength85,000-98,000 psi
 Yield32,000-44,000 psi
 Elongation in 2 inches10 -12 %
 Reduction of AreaNone
 Brinell (3000 kg)170 - 205 Kg.

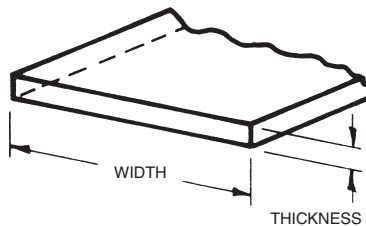
WEAR PLATE

Nominal Stock Allowances

All Thickness062
 All Widths062

STRAIGHTNESS / FLATNESS / LENGTHS

Maximum deviation from straightness due to twist, waviness or full cambers is 3/16" in any 5 feet.
 Width flatness to be within stock allowances.



CUTTING CHARGES – Price on request.

Prices for sizes not shown are available on request.

NOMINAL SIZE	PART NUMBER	APPROX. LBS./IN.
1 x	2-1/2	PA 820 .764
	3	PA 824 .910
	3-1/2	PA 828 1.063
	4	PA 832 1.157
	5	PA 840 1.507
	6	PA 848 1.840
1-1/4 x	1-1/4	PA 1010 .486
	1-1/2	PA 1012 .576
	1-3/4	PA 1014 .667
	2	PA 1016 .757
	2-1/2	PA 1020 .944
	3	PA 1024 1.118
	3-1/2	PA 1028 1.313
	4	PA 1032 1.486
5	PA 1040 1.854	
1-1/2 x	1-1/2	PA 1212 .688
	1-3/4	PA 1214 .799
	2	PA 1216 .903
	2-1/2	PA 1220 1.104
	3	PA 1224 1.340
	3-1/2	PA 1228 1.507
	4	PA 1232 1.771
	5	PA 1240 2.181
	6	PA 1248 2.653
	12	PA 1296 5.202
15	PA 12120 7.007	
1-3/4 x	2	PA 1416 1.049
	2-1/2	PA 1420 1.299
	3	PA 1424 1.556
	4	PA 1432 1.993
	5	PA 1440 2.486
	6	PA 1448 3.076
	10	PA 1480 5.077
2 x	2	PA 1616 1.181
	2-1/2	PA 1620 1.465
	3	PA 1624 1.750
	3-1/2	PA 1628 2.028
	4	PA 1632 2.313
	6	PA 1648 3.451
	12	PA 1696 6.966
	15	PA 16120 9.042
2-1/2 x	2-1/2	PA 2020 1.799
	3	PA 2024 2.181
	4	PA 2032 2.875
	5	PA 2040 3.576
	6	PA 2048 4.299
	12	PA 2096 8.563
	15	PA 20120 11.230
3 x	4	PA 2432 3.375
	12	PA 2496 10.153
	15	PA 24120 13.306
3-1/2 x	12	PA 2896 11.813
	15	PA 28120 15.362
4 x	4	PA 3232 4.540
	15	PA 32120 17.466
6 x	6	PA 4848 10.000

R-con

Continuous Cast

Manganese Bronze Bars Alloy CDA 863

763-689-4143

1-800-445-4374

144 Inch

Finish Allowances; Actual sizes provide approximate allowances for finish as follows:

Outside Diameter	Finish (I.D. & O.D.)
0-4"	1/32"
4-5"	1/16"
5"+	3/32"

I.D.	O.D.	ITEM NUMBER	APPROX. LBS./IN.	I.D.	O.D.	ITEM NUMBER	APPROX. LBS./IN.	I.D.	O.D.	ITEM NUMBER	APPROX. LBS./IN.		
SOLID X	1	MB 8	.257	1 x	1 1/2	MB 812	.354	3 1/2 x	4	MB 2832	1.194		
	1 1/2	MB 12	.549		2	MB 816	.757		4 1/4	MB 2834	1.667		
	2	MB 16	.951		2 1/2	MB 820	1.271		4 3/4	MB 2838	2.785		
	2 1/2	MB 20	1.424		3	MB 824	1.896		5 1/2	MB 2844	4.514		
	3	MB 24	2.090	1 1/2 x	2	MB 1216	.500	4 x	4 1/2	MB 3236	1.420		
	3 1/2	MB 28	2.875		1 3/4 x	2 1/4	MB 1418		.569	5	MB 3240	2.632	
	4	MB 32	3.729	2 x	2 1/4	MB 1618	.368	5 x	6	MB 3248	5.292		
	4 1/2	MB 36	4.757		2 1/2	MB 1620	.660		6	MB 4048	3.354		
	5	MB 40	5.840		2 3/4	MB 1622	.944			7	MB 4056	6.347	
	6	MB 48	8.570		3	MB 1624	1.264						
					3 1/2	MB 1628	2.125						
					4	MB 1632	2.965						
				5	MB 1640	5.063							
				6	MB 1648	7.771							
				2 1/2 x	3	MB 2024	.813						
					3 1/2	MB 2028	1.681						
				3 x	3 1/2	MB 2428	1.076						
					4	MB 2432	1.958						
					5	MB 2440	4.056						

†Minimum Mechanical Properties

C86300 (SAE 430B) Bronze Bars

Chemical Composition . . .	Copper	63%
	Aluminum	6%
	Manganese	3%
	Zinc	25%
	Iron	3%

Tensile Strength.....110,000 PSI

Yield Strength.....60,000 PSI

Elongation in 2 Inches
 12% |

Brinell Number @ 500 KG Load
 225 |

Equivalent Specifications: C86300, SAE 430B, ASTM B505; QQ-C 390

DESIGN PARAMETERS FOR SAE 841 BEARINGS

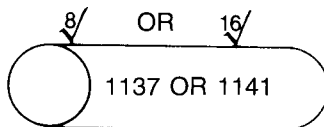
The following information will aid you in the proper selection of bearings to meet your needs. The sample problems will illustrate the design criteria which must be established in order to select the proper bearing. Should any questions arise, our staff is ready to assist you.

Sample Design a bearing for 180
Problem: pound load at a speed of
1100 RPM

SHAFT SELECTION

Size Shaft size will be determined by the size and construction of the unit being designed. Refer to our PV Chart (page 42) in order to determine approximate criteria.

Example: A 1.000 shaft is chosen. The PV chart shows that a 1.000 shaft operating at 1100 RPM will carry 175 pounds per sq. inch load.



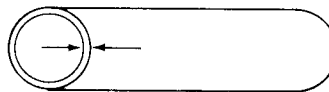
Materials Steel containing approximately 0.4% carbon are recommended, and any steels with a lower content should be avoided. The 1137-1141 series, for example, are effective grades for shaft material. In addition, drill rod and hardened and ground steels can be used.

Hard chromium plated materials are recommended when corrosion resistance is required. The performance of stainless steel materials does not equal that of straight carbon-alloy steels. If stainless steel must be used, the 300 series should be avoided. The 400 series is a good choice in stainless, and 416 stainless, heat-treated to maximum hardness, is the best.

Zinc or cadmium plating on shafts must be avoided as they are too soft and will ball up, resulting in a loss of bearing porosity, and lubrication.

Finishes Shaft finish is critical to long bearing life. Recommended finish is 16 RMS to 8 RMS. In some cases, a 32 RMS finish may be adequate if the application is not too precise.

BEARING WALL THICKNESS

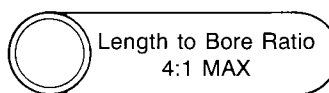


For bearings less than 1/4 inch ID, the minimum wall thickness is 1/32 inch. For bearings 1/4 inch ID and larger, use the following formula to determine wall thickness.

Example:
Wall thickness = .125 x Shaft dia.
1" Shaft
Wall thickness = .125 x 1.000
Wall thickness = .125

Larger bearings with extremely thin walls are more costly to produce and result in increased unit costs.

BEARING LENGTH



Maximum length is determined by using a ratio of length to bore, not to exceed 4:1. For diameters less than 1/4 inch, use a smaller ratio.

To determine proper bearing length, refer to the PV chart (page 42). It will give the unit load per square for a specific speed and shaft size. By

dividing the unit load per square inch into the total load to be carried by the bearing, the minimum length is found. In addition we recommend that a safety margin be used. By adding extra length, the bearing avoids operating at extreme limits.

Example: 180 lb. load
1100 RPM
1.000 Bearing ID

PV chart indicates
175 PSI UNIT LOAD

$180 \div 175 = 1.029$ Minimum Length
1.029 (Minimum Length)
.221 (Safety margin)
1.250 Suggested length

LOADS AND SPEEDS

Load and speed limitations must be ascertained in order to insure proper bearing design. If design limits are exceeded, the bearing life will decrease and could result in premature failure. To determine the capacity of a bearing, use the following PV formula:

- P = The load per square inch of projected area
- V = Shaft velocity in feet per minute
- $P = \frac{\text{load}}{\text{I.D.} \times \text{Length}}$
- PV = P x V
- 1 The maximum P is 2000 P.S.I.
- 2 The maximum V is 1200 S.F.M.
- 3 The maximum PV for R-Lube is 50,000

Example: 180 lb. load
1100 R.P.M.
1.000 I.D. x 1.250
Length bearing

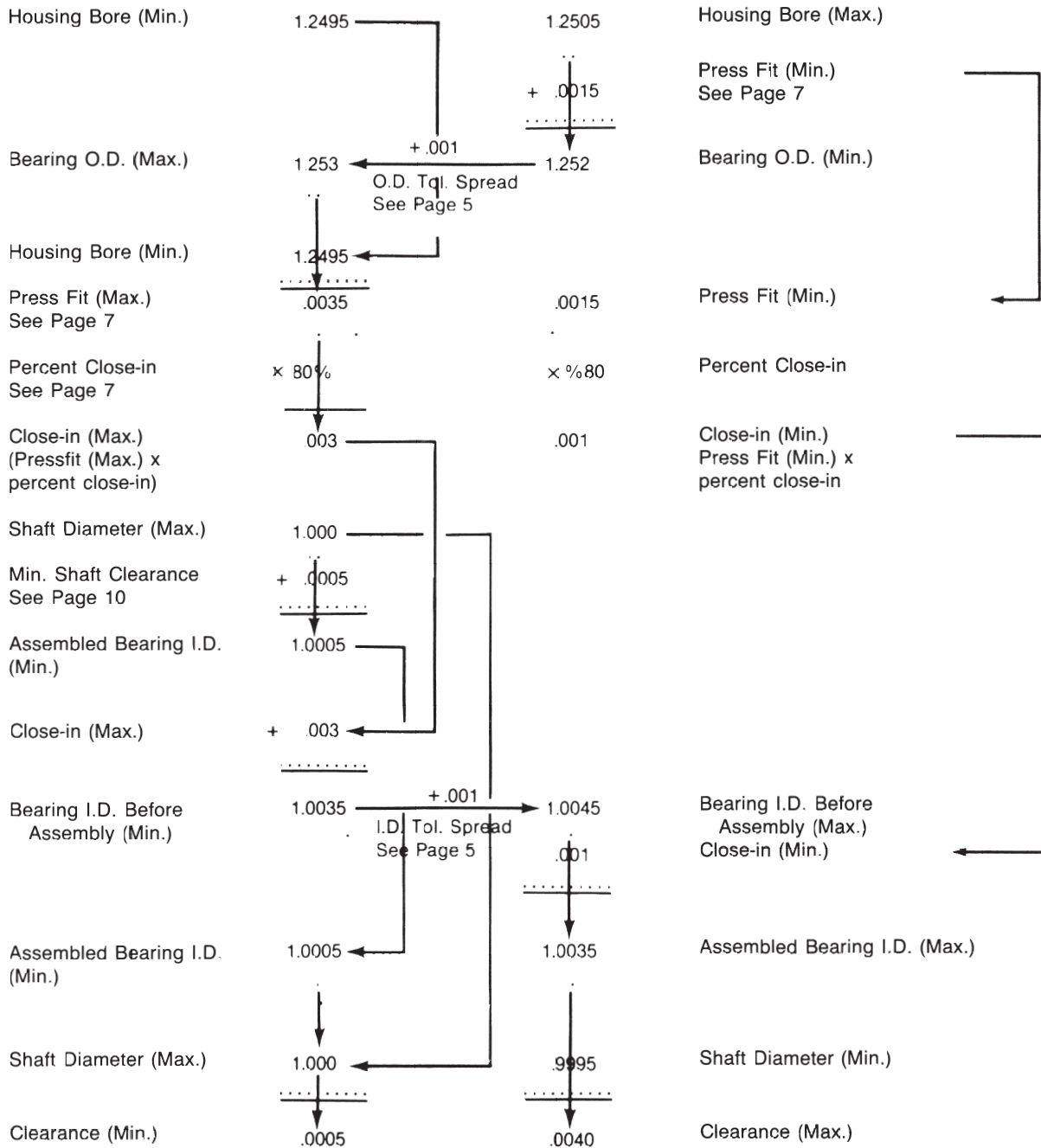
$P = \frac{180}{1.000 \times 1.250}$
P = 144 WITHIN LIMIT
V = 1100 x 1.00 x .262
V = 288 SFM WITHIN LIMIT
PV = 144 x 288
PV = 41472 WITHIN LIMIT

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EXAMPLE AND WORKSHEET FOR CALCULATING BEARING DIMENSIONS

Fill in the blanks (.)



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LUBRICATION

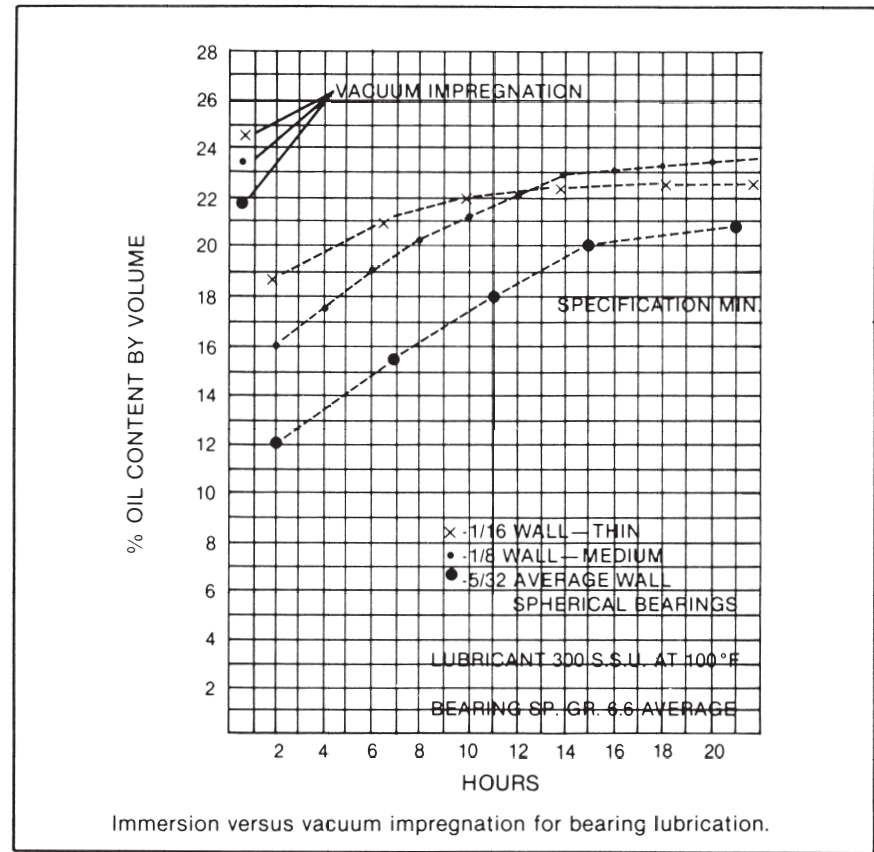
Proper lubrication is essential for the bearing, and we use the highest quality oils available. Our standard lubricant has an effective operating range from +10°F to +175°F. Applications requiring extended or unusual operating ranges must be identified so that we can select a special lubricant to do the job. This impregnation process is available for a minimal charge.

Supplemental Lubrication Additional lubrication can be provided thru the use of oil soaked felts, wicks, etc., or by periodic oiling. A unique advantage of the bearing is that it does not require any grooving or holes to distribute the oil across the bearing surfaces. The bearing distributes oil evenly across the bearing face due to the microscopic pores in the material.

Storage of Bearings. Bearings must be stored in non-absorbing containers. Do not store in paper or cloth containers. Do not store in cardboard boxes! The best containers are made of plastic or metal.

De-Oiling To remove oil from a bearing, immerse it in a solvent for 12 hours. An Aromatic solvent is recommended. Chlorinated solvents should be avoided, as they can initiate corrosion within the pores of the material. After soaking in solvent, the bearings should air dry until the absorbed solvent is evaporated.

Re-Oiling The most efficient method of impregnation is by the vacuum



process. However, this process is typically available only to bearing manufacturers. Re-oiling can also be accomplished by immersing the bearings in oil heated to 150-175°F. This method will result in a 90% saturation of the bearing material. The graph above indicates the length of time required to achieve maximum impregnation by both methods.

CUSTOM MADE BEARINGS

Custom bearings can be designed and manufactured according to customer specifications, including requirements for special dimensions and/or materials. Our inventory provides for a large supply of nearly all the powdered metal mixes used in bearing manufacture. Please give us a call and tell us about your special needs.

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CHECK FOR STOCK SIZE USAGE

From the calculations on the work sheet we have determined that the ideal dimensions should be

$$\begin{matrix} 1.0035 & 1.252 \\ 1.0045 & \times 1.253 & \times 1-1/4 \end{matrix}$$

The stock list shows a size of

$$\begin{matrix} 1.004 & 1.2515 \\ 1.005 & \times 1.2525 & \times 1-1/4 \end{matrix} \text{ (AA1204-2)}$$

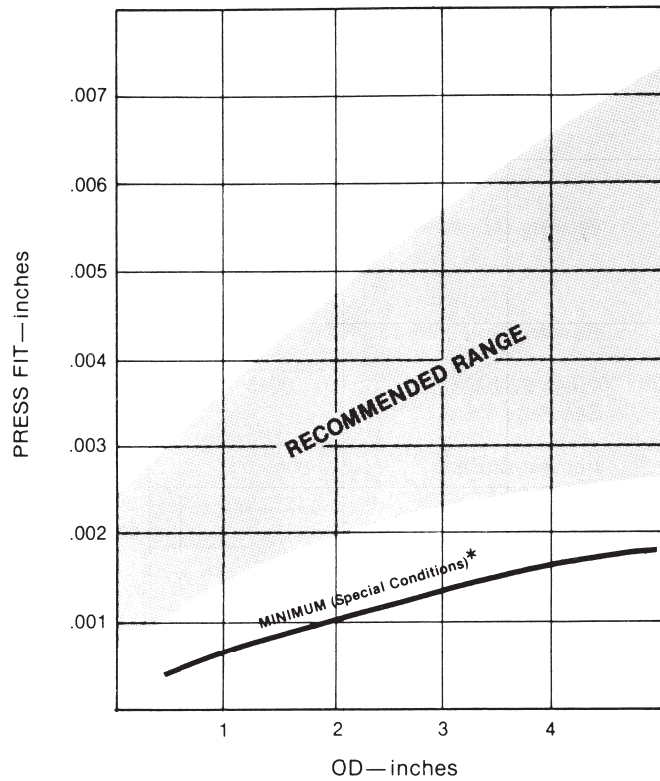
A check can be made to see if this standard size can be used.

Bearing O.D.	1.2525	1.2515
Housing Bore	-1.2495	-1.2505
Press Fits	.0030	.0010
Close in factor	$\times .8$	$\times .8$
Close in (to nearest .0005)	.0025	.0010*
Bearing I.D.	1.0050	1.0040
Close-in	-.0010	-.0025
I.D. after assembly	1.0040	1.0015
Shaft diameter	-.9995	-1.0000
Bearing Clearance	.0045	.0015

*Press fit deviation of .0005 is acceptable.

By using a standard size, tool costs are reduced and parts are in ready supply.

PRESS FIT VALUES

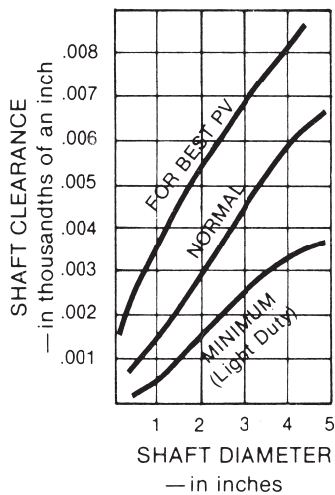


Considerable force is required to seat large bearings when press fit approaches the top of the recommended range.

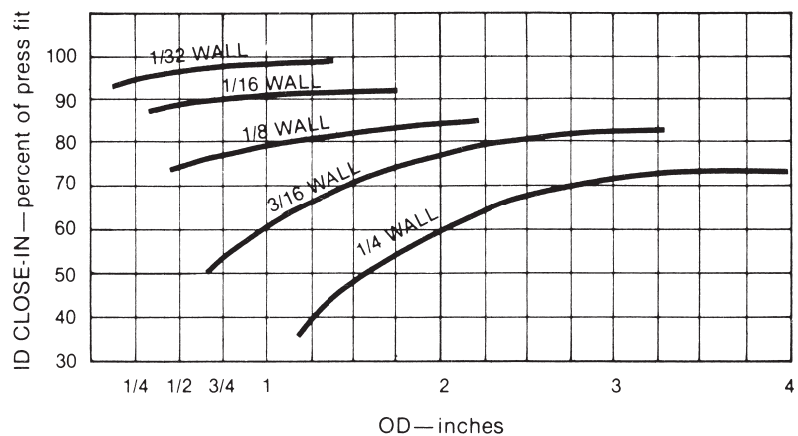
*Less than normal press fit proves satisfactory.

- (1) if the bearing is long and the wall is not exceptionally thin, and
- (2) if the bearing is also carrying a moderate load exerted only in one direction.

BEARING CLEARANCE BEARINGS



ID CLOSE-IN BEARINGS



CONVERSION CHART

Fractions - Decimals - Millimeters

$\frac{1}{64}$	.015625	0.396	$\frac{33}{64}$	.515625	13.096
$\frac{1}{32}$	.03125	0.793	$\frac{17}{32}$	.53125	13.493
$\frac{1}{16}$	.046875	1.190	$\frac{35}{64}$	.546875	13.890
	.0625	1.587	$\frac{9}{16}$	.5625	14.287
	.078125	1.984	$\frac{37}{64}$	.578125	14.684
$\frac{3}{32}$	.09375	2.381	$\frac{19}{32}$	.59375	15.081
	.109375	2.778	$\frac{39}{64}$	.609375	15.478
$\frac{1}{8}$	.125	3.175	$\frac{5}{8}$	.625	15.875
	.140625	3.571	$\frac{41}{64}$	.640625	16.271
	.15625	3.968	$\frac{21}{32}$	.65625	16.668
	.171875	4.365	$\frac{43}{64}$	.671875	17.065
$\frac{3}{16}$	.1875	4.762	$\frac{11}{16}$	.6875	17.462
	.203125	5.159	$\frac{45}{64}$	.703125	17.859
	.21875	5.556	$\frac{23}{32}$	.71875	18.256
	.234375	5.953	$\frac{47}{64}$	.734375	18.653
$\frac{1}{4}$	.25	6.350	$\frac{3}{4}$	.75	19.050
	.265625	6.746	$\frac{49}{64}$	.765625	19.446
	.28125	7.143	$\frac{25}{32}$	.78125	19.843
	.296875	7.540	$\frac{51}{64}$	.796875	20.240
$\frac{5}{16}$	.3125	7.937	$\frac{13}{16}$	.8125	20.637
	.328125	8.334	$\frac{53}{64}$	.828125	21.034
	.34375	8.731	$\frac{27}{32}$	.84375	21.431
	.359375	9.128	$\frac{55}{64}$	.859375	21.828
$\frac{3}{8}$	.375	9.525	$\frac{7}{8}$	.875	22.225
	.390625	9.921	$\frac{57}{64}$	.890625	22.621
	.40625	10.318	$\frac{29}{32}$	.90625	23.018
	.421875	10.715	$\frac{59}{64}$	.921875	23.415
$\frac{7}{16}$	.4375	11.112	$\frac{15}{16}$	.9375	23.812
	.453125	11.509	$\frac{61}{64}$	.953125	24.209
	.46875	11.906	$\frac{31}{32}$.96875	24.606
	.484375	12.303	$\frac{63}{64}$.984375	25.003
$\frac{1}{2}$.5	12.700	$\frac{1}{1}$	1.	25.400

Notes

Notes



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sales@reliablebronze.com

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