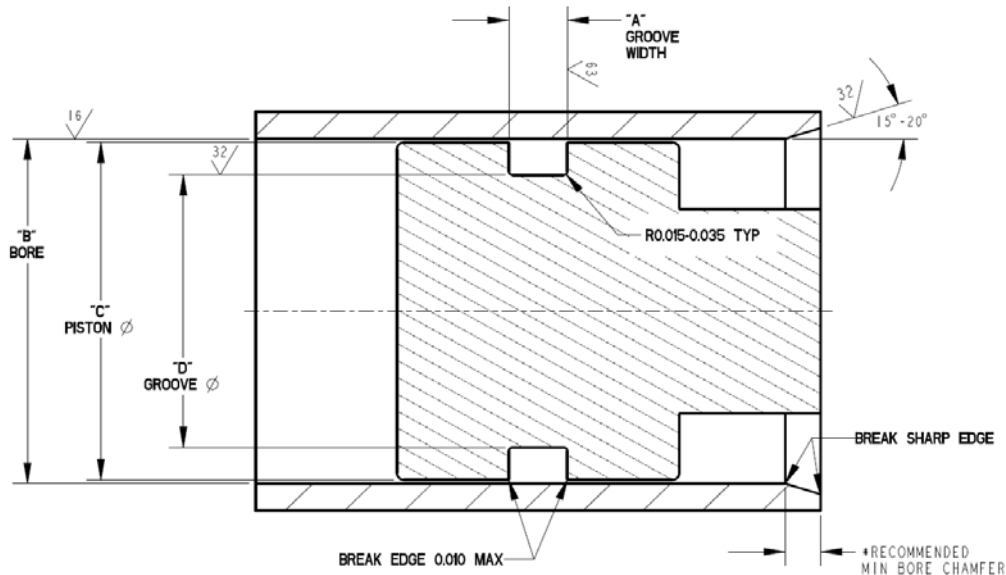


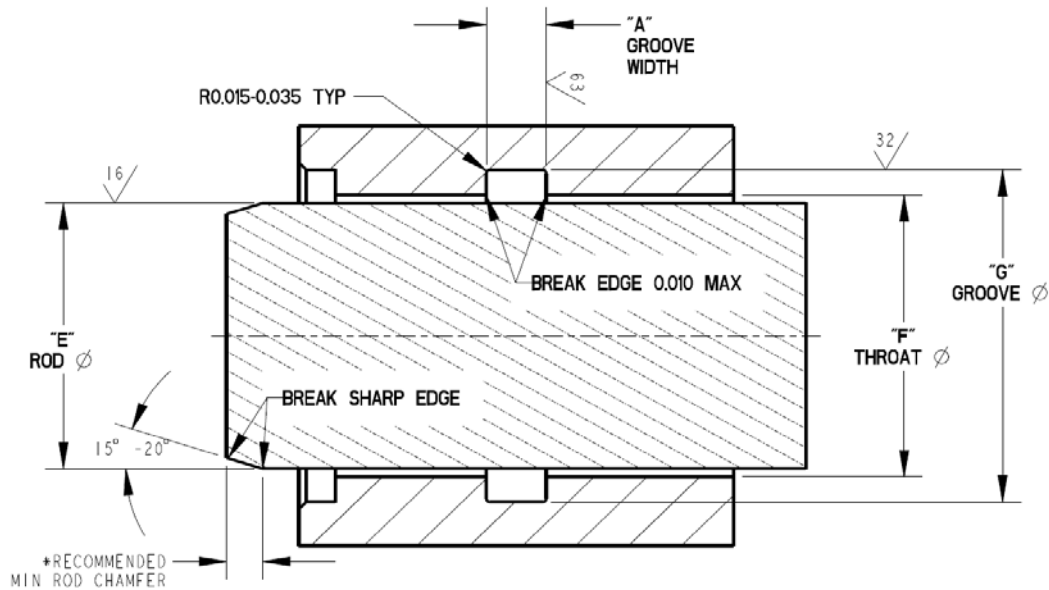
LOADED LIP U-CUP PART NUMBERING SYSTEM						
Standard X-Ring Loaded Lip U-Cup						
<u>1870</u>	-	<u>2</u>	<u>250</u>			
Seal Cross Section*			Nominal Rod Ø **			
Decimal Equivalent of Fraction of an Inch		Whole Inches	Decimal Equivalent of Fraction of an Inch			
Deep X-Ring Loaded Lip U-Cup						
<u>1870</u>	-	<u>2</u>	<u>250</u>	SUFFIX <u>-375</u>		
Seal Cross Section *			Nominal Rod Ø **	Seal Axial Length		
Decimal Equivalent of Fraction of an Inch		Whole Inches	Decimal Equivalent of Fraction of an Inch	Decimal Equivalent of Fraction of an Inch		
Square B X-Ring Loaded Lip U-Cup						
<u>1870</u>	-	<u>2</u>	<u>250</u>	SUFFIX <u>SQB</u>		
Seal Cross Section *			Nominal Rod Ø **	Square B Designator		
Decimal Equivalent of Fraction of an Inch		Whole Inches	Decimal Equivalent of Fraction of an Inch	Suffix designator to identify square B profile		
Type B X-Ring Loaded Lip U-Cup						
<u>1870</u>	-	<u>2</u>	<u>250</u>	SUFFIX <u>-375</u>	<u>B</u>	
Seal Cross Section *			Nominal Rod Ø **	Seal Axial Length	Type B Designator	
Decimal Equivalent of Fraction of an Inch		Whole Inches	Decimal Equivalent of Fraction of an Inch	Decimal Equivalent of Fraction of an Inch	Suffix designator to identify type B profile	
Z-Seal						
<u>1870</u>	-	<u>2</u>	<u>250</u>	SUFFIX <u>-375</u>	<u>ZA</u>	
Seal Cross Section *			Nominal Rod Ø **	Seal Axial Length	Z-Seal Designator	
Decimal Equivalent of Fraction of an Inch		Whole Inches	Decimal Equivalent of Fraction of an Inch	Decimal Equivalent of Fraction of an Inch	Suffix designator to identify Z-Seal profile	
* When seal cross section is 1 inch or larger use 5 digits for the cross section, i.e. 1" = 10000						
** When seal I.D. is 10 inches or larger use 5 digits for seal I.D., i.e. 10" = 10000						
Standard Materials:						
Rubber Energizer = AN1 Nitrile - 70A						
Thermoplastic Jacket = SC Urethane - 90A						

PISTON U-CUP GROOVE DIMENSIONS



Nominal Seal Cross Section	*Recommended Min Bore Chamfer
1/8"	0.250"
3/16"	0.250"
1/4"	0.312"
5/16"	0.312"
3/8"	0.375"
1/2"	0.375"

ROD U-CUP GROOVE DIMENSIONS



Nominal Seal Cross Section	*Recommended Min Rod Chamfer
1/8"	0.250"
3/16"	0.250"
1/4"	0.312"
5/16"	0.375"
3/8"	0.500"
1/2"	0.625"

HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.002 -0.000]	[+0.000 -0.001]	[+0.000 -0.002]	[+0.000 -0.001]	[+0.002 -0.000]
1/8	1250	-0125	XXX	1/8	3/8	1/8	0.138	0.375	0.374	0.125	0.125	0.126	0.375	
	1250	-0125	-250			XXX	1/4							0.275
	1250	-0187	XXX	3/16	7/16	1/8	0.138	0.437	0.436	0.187	0.187	0.188	0.437	
	1250	-0187	-250			XXX	1/4							0.275
	1250	-0250	XXX	1/4	1/2	1/8	0.138	0.500	0.499	0.250	0.250	0.251	0.500	
	1250	-0250	-250			XXX	1/4							0.275
	1250	-0312	XXX	5/16	9/16	1/8	0.138	0.562	0.561	0.312	0.312	0.313	0.562	
	1250	-0312	-250			XXX	1/4							0.275
	1250	-0375	XXX	3/8	5/8	1/8	0.138	0.625	0.624	0.375	0.375	0.376	0.625	
	1250	-0375	-250			XXX	1/4							0.275
	1250	-0437	XXX	7/16	11/16	1/8	0.138	0.687	0.686	0.437	0.437	0.438	0.687	
	1250	-0437	-250			XXX	1/4							0.275
	1250	-0500	XXX	1/2	3/4	1/8	0.138	0.750	0.749	0.500	0.500	0.501	0.750	
	1250	-0500	-250			XXX	1/4							0.275
	1250	-0562	XXX	9/16	13/16	1/8	0.138	0.812	0.811	0.562	0.562	0.563	0.812	
	1250	-0562	-250			XXX	1/4							0.275
	1250	-0625	XXX	5/8	7/8	1/8	0.138	0.875	0.874	0.625	0.625	0.626	0.875	
	1250	-0625	-250			XXX	1/4							0.275
	1250	-0687	XXX	11/16	15/16	1/8	0.138	0.937	0.936	0.687	0.687	0.688	0.937	
	1250	-0687	-250			XXX	1/4							0.275
	1250	-0750	XXX	3/4	1	1/8	0.138	1.000	0.999	0.750	0.750	0.751	1.000	
	1250	-0750	-250			XXX	1/4							0.275
	1250	-0812	XXX	13/16	1 1/16	1/8	0.138	1.062	1.061	0.812	0.812	0.813	1.062	
	1250	-0812	-250			XXX	1/4							0.275
	1250	-0875	XXX	7/8	1 1/8	1/8	0.138	1.125	1.124	0.875	0.875	0.876	1.125	
	1250	-0875	-250			XXX	1/4							0.275
	1250	-0937	XXX	15/16	1 3/16	1/8	0.138	1.187	1.186	0.937	0.937	0.938	1.187	
	1250	-0937	-250			XXX	1/4							0.275
	1250	-1000	XXX	1	1 1/4	1/8	0.138	1.250	1.249	1.000	1.000	1.001	1.250	
	1250	-1000	-250			XXX	1/4							0.275
	1250	-1062	XXX	1 1/16	1 5/16	1/8	0.138	1.312	1.311	1.062	1.062	1.063	1.312	
	1250	-1062	-250			XXX	1/4							0.275
	1250	-1125	XXX	1 1/8	1 3/8	1/8	0.138	1.375	1.374	1.125	1.125	1.126	1.375	
	1250	-1125	-250			XXX	1/4							0.275

Note:
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HPS LOADED LIP U-CUP FAMILY													
Nom Cross Section (inch)	Part Number			Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
								Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
								[+0.010 -0.000]	[+0.002 -0.000]	[+0.000 -0.001]	[+0.000 -0.002]	[+0.000 -0.001]	[+0.002 -0.000]
1/8	1250	-1187	XXX	1 3/16	1 7/16	1/8	0.138	1.437	1.436	1.187	1.187	1.188	1.437
	1250	-1187	-250			XXX	1/4						
	1250	-1250	XXX	1 1/4	1 1/2	1/8	0.138	1.500	1.499	1.250	1.250	1.251	1.500
	1250	-1250	-250			XXX	1/4						
	1250	-1312	XXX	1 5/16	1 9/16	1/8	0.138	1.562	1.561	1.312	1.312	1.313	1.562
	1250	-1312	-250			XXX	1/4						
	1250	-1375	XXX	1 3/8	1 5/8	1/8	0.138	1.625	1.624	1.375	1.375	1.376	1.625
	1250	-1375	-250			XXX	1/4						
	1250	-1437	XXX	1 7/16	1 11/16	1/8	0.138	1.687	1.686	1.437	1.437	1.438	1.687
	1250	-1437	-250			XXX	1/4						
	1250	-1500	XXX	1 1/2	1 3/4	1/8	0.138	1.750	1.749	1.500	1.500	1.501	1.750
	1250	-1500	-250			XXX	1/4						
	1250	-1625	XXX	1 5/8	1 7/8	1/8	0.138	1.875	1.874	1.625	1.625	1.626	1.875
	1250	-1625	-250			XXX	1/4						
	1250	-1750	XXX	1 3/4	2	1/8	0.138	2.000	1.999	1.750	1.750	1.751	2.000
	1250	-1750	-250			XXX	1/4						
	1250	-1875	XXX	1 7/8	2 1/8	1/8	0.138	2.125	2.124	1.875	1.875	1.876	2.125
	1250	-1875	-250			XXX	1/4						
	1250	-2000	XXX	2	2 1/4	1/8	0.138	2.250	2.249	2.000	2.000	2.001	2.250
	1250	-2000	-250			XXX	1/4						
	1250	-2125	XXX	2 1/8	2 3/8	1/8	0.138	2.375	2.374	2.125	2.125	2.126	2.375
	1250	-2125	-250			XXX	1/4						
	1250	-2250	XXX	2 1/4	2 1/2	1/8	0.138	2.500	2.499	2.250	2.250	2.251	2.500
	1250	-2250	-250			XXX	1/4						
	1250	-2375	XXX	2 3/8	2 5/8	1/8	0.138	2.625	2.624	2.375	2.375	2.376	2.625
	1250	-2375	-250			XXX	1/4						
	1250	-2500	XXX	2 1/2	2 3/4	1/8	0.138	2.750	2.749	2.500	2.500	2.501	2.750
	1250	-2500	-250			XXX	1/4						

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HPS LOADED LIP U-CUP FAMILY													
Nom Cross Section (inch)	Part Number			Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
								Bore "B"	Piston "C"	Groove "D"	Rod "E"	Throat "F"	Groove "G"
								(inch)	(inch)	(inch)	(inch)	(inch)	(inch)
								[+0.010 -0.000]	[+0.002 -0.000]	[+0.000 -0.002]	[+0.000 -0.002]	[+0.002 -0.000]	[+0.002 -0.000]
3/16	1870	-0187	XXX	3/16	9/16	3/16	0.207	0.562	0.561	0.187	0.187	0.188	0.562
	1870	-0187	-312			XXX	5/16						
	1870	-0250	XXX	1/4	5/8	3/16	0.207	0.625	0.624	0.250	0.250	0.251	0.625
	1870	-0250	-312			XXX	5/16						
	1870	-0312	XXX	5/16	11/16	3/16	0.207	0.687	0.686	0.312	0.312	0.313	0.687
	1870	-0312	-312			XXX	5/16						
	1870	-0375	XXX	3/8	3/4	3/16	0.207	0.750	0.749	0.375	0.375	0.376	0.750
	1870	-0375	-312			XXX	5/16						
	1870	-0437	XXX	7/16	13/16	3/16	0.207	0.812	0.811	0.437	0.437	0.438	0.812
	1870	-0437	-312			XXX	5/16						
	1870	-0500	XXX	1/2	7/8	3/16	0.207	0.875	0.874	0.500	0.500	0.501	0.875
	1870	-0500	-312			XXX	5/16						
	1870	-0562	XXX	9/16	15/16	3/16	0.207	0.937	0.936	0.562	0.562	0.563	0.937
	1870	-0562	-312			XXX	5/16						
	1870	-0625	XXX	5/8	1	3/16	0.207	1.000	0.999	0.625	0.625	0.626	1.000
	1870	-0625	-312			XXX	5/16						
	1870	-0687	XXX	11/16	1 1/16	3/16	0.207	1.062	1.061	0.687	0.687	0.688	1.062
	1870	-0687	-312			XXX	5/16						
	1870	-0750	XXX	3/4	1 1/8	3/16	0.207	1.125	1.124	0.750	0.750	0.751	1.125
	1870	-0750	-312			XXX	5/16						
	1870	-0812	XXX	13/16	1 3/16	3/16	0.207	1.187	1.186	0.812	0.812	0.813	1.187
	1870	-0812	-312			XXX	5/16						
	1870	-0875	XXX	7/8	1 1/4	3/16	0.207	1.250	1.249	0.875	0.875	0.876	1.250
	1870	-0875	-312			XXX	5/16						
	1870	-0937	XXX	15/16	1 5/16	3/16	0.207	1.312	1.311	0.937	0.937	0.938	1.312
	1870	-0937	-312			XXX	5/16						
	1870	-1000	XXX	1	1 3/8	3/16	0.207	1.375	1.374	1.000	1.000	1.001	1.375
	1870	-1000	-312			XXX	5/16						
	1870	-1062	XXX	1 1/16	1 7/16	3/16	0.207	1.437	1.436	1.062	1.062	1.063	1.437
	1870	-1062	-312			XXX	5/16						
	1870	-1125	XXX	1 1/8	1 1/2	3/16	0.207	1.500	1.499	1.125	1.125	1.126	1.500
	1870	-1125	-312			XXX	5/16						
	1870	-1187	XXX	1 3/16	1 9/16	3/16	0.207	1.562	1.561	1.187	1.187	1.188	1.562
	1870	-1187	-312			XXX	5/16						

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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.002 -0.000]	[+0.000 -0.002]	[+0.000 -0.002]	[+0.002 -0.000]	[+0.002 -0.000]
3/16	1870	-1250	XXX	1 1/4	1 5/8	3/16	0.207	1.625	1.624	1.250	1.250	1.251	1.625	
	1870	-1250	-312			XXX	5/16							0.344
	1870	-1312	XXX	1 5/16	1 11/16	3/16	0.207	1.687	1.686	1.312	1.312	1.313	1.687	
	1870	-1312	-312			XXX	5/16							0.344
	1870	-1375	XXX	1 3/8	1 3/4	3/16	0.207	1.750	1.749	1.375	1.375	1.376	1.750	
	1870	-1375	-312			XXX	5/16							0.344
	1870	-1437	XXX	1 7/16	1 13/16	3/16	0.207	1.812	1.811	1.437	1.437	1.438	1.812	
	1870	-1437	-312			XXX	5/16							0.344
	1870	-1500	XXX	1 1/2	1 7/8	3/16	0.207	1.875	1.874	1.500	1.500	1.501	1.875	
	1870	-1500	-375			XXX	3/8							0.413
	1870	-1625	XXX	1 5/8	2	3/16	0.207	2.000	1.999	1.625	1.625	1.626	2.000	
	1870	-1625	-375			XXX	3/8							0.413
	1870	-1687	XXX	1 11/16	2 1/16	3/16	0.207	2.062	2.061	1.687	1.687	1.688	2.062	
	1870	-1687	-375			XXX	3/8							0.413
	1870	-1750	XXX	1 3/4	2 1/8	3/16	0.207	2.125	2.124	1.750	1.750	1.751	2.125	
	1870	-1750	-375			XXX	3/8							0.413
	1870	-1875	XXX	1 7/8	2 1/4	3/16	0.207	2.250	2.249	1.875	1.875	1.876	2.250	
	1870	-1875	-375			XXX	3/8							0.413
	1870	-2000	XXX	2	2 3/8	3/16	0.207	2.375	2.374	2.000	2.000	2.001	2.375	
	1870	-2000	-375			XXX	3/8							0.413
	1870	-2125	XXX	2 1/8	2 1/2	3/16	0.207	2.500	2.499	2.125	2.125	2.126	2.500	
	1870	-2125	-375			XXX	3/8							0.413
	1870	-2250	XXX	2 1/4	2 5/8	3/16	0.207	2.625	2.624	2.250	2.250	2.251	2.625	
	1870	-2250	-375			XXX	3/8							0.413
	1870	-2375	XXX	2 3/8	2 3/4	3/16	0.207	2.750	2.749	2.375	2.375	2.376	2.750	
	1870	-2375	-375			XXX	3/8							0.413
	1870	-2500	XXX	2 1/2	2 7/8	3/16	0.207	2.875	2.874	2.500	2.500	2.501	2.875	
	1870	-2500	-375			XXX	3/8							0.413
	1870	-2625	XXX	2 5/8	3	3/16	0.207	3.000	2.999	2.625	2.625	2.626	3.000	
	1870	-2625	-375			XXX	3/8							0.413
	1870	-2750	XXX	2 3/4	3 1/8	3/16	0.207	3.125	3.124	2.750	2.750	2.751	3.125	
	1870	-2750	-375			XXX	3/8							0.413
	1870	-2875	XXX	2 7/8	3 1/4	3/16	0.207	3.250	3.249	2.875	2.875	2.876	3.250	
	1870	-2875	-375			XXX	3/8							0.413

Note:
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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.002 -0.000]	[+0.000 -0.002]	[+0.000 -0.002]	[+0.002 -0.000]	[+0.002 -0.000]
3/16	1870	-3000	XXX		3	3 3/8	3/16	0.207	3.375	3.374	3.000	3.000	3.001	3.375
	1870	-3000	-375	XXX			3/8	0.413						
	1870	-3125	XXX		3 1/8	3 1/2	3/16	0.207	3.500	3.499	3.125	3.125	3.126	3.500
	1870	-3125	-375	XXX			3/8	0.413						
	1870	-3250	XXX		3 1/4	3 5/8	3/16	0.207	3.625	3.624	3.250	3.250	3.251	3.625
	1870	-3250	-375	XXX			3/8	0.413						
	1870	-3375	XXX		3 3/8	3 3/4	3/16	0.207	3.750	3.749	3.375	3.375	3.376	3.750
	1870	-3375	-375	XXX			3/8	0.413						
	1870	-3500	XXX		3 1/2	3 7/8	3/16	0.207	3.875	3.874	3.500	3.500	3.501	3.875
	1870	-3500	-375	XXX			3/8	0.413						
	1870	-3625	XXX		3 5/8	4	3/16	0.207	4.000	3.999	3.625	3.625	3.626	4.000
	1870	-3625	-375	XXX			3/8	0.413						
	1870	-3750	XXX		3 3/4	4 1/8	3/16	0.207	4.125	4.124	3.750	3.750	3.751	4.125
	1870	-3750	-375	XXX			3/8	0.413						
	1870	-3875	XXX		3 7/8	4 1/4	3/16	0.207	4.250	4.249	3.875	3.875	3.876	4.250
	1870	-3875	-375	XXX			3/8	0.413						
	1870	-4000	XXX		4	4 3/8	3/16	0.207	4.375	4.374	4.000	4.000	4.001	4.375
	1870	-4000	-375	XXX			3/8	0.413						
	1870	-4125	XXX		4 1/8	4 1/2	3/16	0.207	4.500	4.499	4.125	4.125	4.126	4.500
	1870	-4125	-375	XXX			3/8	0.413						
	1870	-4250	XXX		4 1/4	4 5/8	3/16	0.207	4.625	4.624	4.250	4.250	4.251	4.625
	1870	-4250	-375	XXX			3/8	0.413						
	1870	-4375	XXX		4 3/8	4 3/4	3/16	0.207	4.750	4.749	4.375	4.375	4.376	4.750
	1870	-4375	-375	XXX			3/8	0.413						
	1870	-4500	XXX		4 1/2	4 7/8	3/16	0.207	4.875	4.874	4.500	4.500	4.501	4.875
	1870	-4500	-375	XXX			3/8	0.413						

HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.003]	[+0.000 -0.002]	[+0.003 -0.000]
1/4	2500	-0250	XXX	1/4	3/4	1/4	0.275	0.750	0.749	0.250	0.250	0.251	0.750	
	2500	-0250	-375			XXX	3/8							0.413
	2500	-0312	XXX	5/16	13/16	1/4	0.275	0.812	0.811	0.312	0.312	0.313	0.812	
	2500	-0312	-375			XXX	3/8							0.413
	2500	-0375	XXX	3/8	7/8	1/4	0.275	0.875	0.874	0.375	0.375	0.376	0.875	
	2500	-0375	-375			XXX	3/8							0.413
	2500	-0437	XXX	7/16	15/16	1/4	0.275	0.937	0.936	0.437	0.437	0.438	0.937	
	2500	-0437	-375			XXX	3/8							0.413
	2500	-0500	XXX	1/2	1	1/4	0.275	1.000	0.999	0.500	0.500	0.501	1.000	
	2500	-0500	-375			XXX	3/8							0.413
	2500	-0562	XXX	9/16	1 1/16	1/4	0.275	1.062	1.061	0.562	0.562	0.563	1.062	
	2500	-0562	-375			XXX	3/8							0.413
	2500	-0625	XXX	5/8	1 1/8	1/4	0.275	1.125	1.124	0.625	0.625	0.626	1.125	
	2500	-0625	-375			XXX	3/8							0.413
	2500	-0687	XXX	11/16	1 3/16	1/4	0.275	1.187	1.186	0.687	0.687	0.688	1.187	
	2500	-0687	-375			XXX	3/8							0.413
	2500	-0750	XXX	3/4	1 1/4	1/4	0.275	1.250	1.249	0.750	0.750	0.751	1.250	
	2500	-0750	-375			XXX	3/8							0.413
	2500	-0812	XXX	13/16	1 5/16	1/4	0.275	1.312	1.311	0.812	0.812	0.813	1.312	
	2500	-0812	-375			XXX	3/8							0.413
	2500	-0875	XXX	7/8	1 3/8	1/4	0.275	1.375	1.374	0.875	0.875	0.876	1.375	
	2500	-0875	-375			XXX	3/8							0.413
	2500	-0937	XXX	15/16	1 7/16	1/4	0.275	1.437	1.436	0.937	0.937	0.938	1.437	
	2500	-0937	-375			XXX	3/8							0.413
	2500	-1000	XXX	1	1 1/2	1/4	0.275	1.500	1.499	1.000	1.000	1.001	1.500	
	2500	-1000	-375			XXX	3/8							0.413
	2500	-1062	XXX	1 1/16	1 9/16	1/4	0.275	1.562	1.561	1.062	1.062	1.063	1.562	
	2500	-1062	-375			XXX	3/8							0.413
	2500	-1125	XXX	1 1/8	1 5/8	1/4	0.275	1.625	1.624	1.125	1.125	1.126	1.625	
	2500	-1125	-375			XXX	3/8							0.413
	2500	-1187	XXX	1 3/16	1 11/16	1/4	0.275	1.687	1.686	1.187	1.187	1.188	1.687	
	2500	-1187	-375			XXX	3/8							0.413
	2500	-1250	XXX	1 1/4	1 3/4	1/4	0.275	1.750	1.749	1.250	1.250	1.251	1.750	
	2500	-1250	-375			XXX	3/8							0.413

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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.003]	[+0.000 -0.002]	[+0.003 -0.000]
1/4	2500 -1312 XXX	1 5/16	1 13/16	1/4	0.275	1.812	1.811	1.312	1.312	1.313	1.812			
	2500 -1312 -375 XXX			3/8	0.413									
	2500 -1375 XXX	1 3/8	1 7/8	1/4	0.275	1.875	1.874	1.375	1.375	1.376	1.875			
	2500 -1375 -375 XXX			3/8	0.413									
	2500 -1437 XXX	1 7/16	1 15/16	1/4	0.275	1.937	1.936	1.437	1.437	1.438	1.937			
	2500 -1437 -375 XXX			3/8	0.413									
	2500 -1500 XXX	1 1/2	2	1/4	0.275	2.000	1.999	1.500	1.500	1.501	2.000			
	2500 -1500 -375 XXX			3/8	0.413									
	2500 -1625 XXX	1 5/8	2 1/8	1/4	0.275	2.125	2.124	1.625	1.625	1.626	2.125			
	2500 -1625 -375 XXX			3/8	0.413									
	2500 -1750 XXX	1 3/4	2 1/4	1/4	0.275	2.250	2.249	1.750	1.750	1.751	2.250			
	2500 -1750 -375 XXX			3/8	0.413									
	2500 -1875 XXX	1 7/8	2 3/8	1/4	0.275	2.375	2.374	1.875	1.875	1.876	2.375			
	2500 -1875 -375 XXX			3/8	0.413									
	2500 -2000 XXX	2	2 1/2	1/4	0.275	2.500	2.499	2.000	2.000	2.001	2.500			
	2500 -2000 -375 XXX			3/8	0.413									
	2500 -2125 XXX	2 1/8	2 5/8	1/4	0.275	2.625	2.624	2.125	2.125	2.126	2.625			
	2500 -2125 -375 XXX			3/8	0.413									
	2500 -2250 XXX	2 1/4	2 3/4	1/4	0.275	2.750	2.749	2.250	2.250	2.251	2.750			
	2500 -2250 -375 XXX			3/8	0.413									
	2500 -2375 XXX	2 3/8	2 7/8	1/4	0.275	2.875	2.874	2.375	2.375	2.376	2.875			
	2500 -2375 -375 XXX			3/8	0.413									
	2500 -2500 XXX	2 1/2	3	1/4	0.275	3.000	2.999	2.500	2.500	2.501	3.000			
	2500 -2500 -375 XXX			3/8	0.413									
	2500 -2625 XXX	2 5/8	3 1/8	1/4	0.275	3.125	3.124	2.625	2.625	2.626	3.125			
	2500 -2625 -375 XXX			3/8	0.413									
	2500 -2750 XXX	2 3/4	3 1/4	1/4	0.275	3.250	3.249	2.750	2.750	2.751	3.250			
	2500 -2750 -375 XXX			3/8	0.413									
	2500 -2875 XXX	2 7/8	3 3/8	1/4	0.275	3.375	3.374	2.875	2.875	2.876	3.375			
	2500 -2875 -375 XXX			3/8	0.413									
	2500 -3000 XXX	3	3 1/2	1/4	0.275	3.500	3.499	3.000	3.000	3.001	3.500			
	2500 -3000 -375 XXX			3/8	0.413									
	2500 -3125 XXX	3 1/8	3 5/8	1/4	0.275	3.625	3.624	3.125	3.125	3.126	3.625			
	2500 -3125 -375 XXX			3/8	0.413									

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HPS LOADED LIP U-CUP FAMILY															
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application			
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)	
									[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.003]	[+0.000 -0.002]	[+0.003 -0.000]	[+0.003 -0.000]
1/4	2500	-3250	XXX	3	1/4	3	3/4	1/4	0.275	3.750	3.749	3.250	3.250	3.251	3.750
	2500	-3250	-375					XXX	3/8						
	2500	-3375	XXX	3	3/8	3	7/8	1/4	0.275	3.875	3.874	3.375	3.375	3.376	3.875
	2500	-3375	-375					XXX	3/8						
	2500	-3500	XXX	3	1/2	4	1/4	0.275	4.000	3.999	3.500	3.500	3.501	4.000	
	2500	-3500	-375				XXX	3/8							0.413
	2500	-3625	XXX	3	5/8	4	1/8	1/4	0.275	4.125	4.124	3.625	3.625	3.626	4.125
	2500	-3625	-375					XXX	3/8						
	2500	-3750	XXX	3	3/4	4	1/4	1/4	0.275	4.250	4.249	3.750	3.750	3.751	4.250
	2500	-3750	-375					XXX	3/8						
	2500	-3875	XXX	3	7/8	4	3/8	1/4	0.275	4.375	4.374	3.875	3.875	3.876	4.375
	2500	-3875	-375					XXX	3/8						
	2500	-4000	XXX	4		4	1/2	1/4	0.275	4.500	4.499	4.000	4.000	4.001	4.500
	2500	-4000	-562					XXX	9/16						
	2500	-4125	XXX	4	1/8	4	5/8	1/4	0.275	4.625	4.624	4.125	4.125	4.126	4.625
	2500	-4125	-562					XXX	9/16						
	2500	-4250	XXX	4	1/4	4	3/4	1/4	0.275	4.750	4.749	4.250	4.250	4.251	4.750
	2500	-4250	-562					XXX	9/16						
	2500	-4375	XXX	4	3/8	4	7/8	1/4	0.275	4.875	4.874	4.375	4.375	4.376	4.875
	2500	-4375	-562					XXX	9/16						
	2500	-4500	XXX	4	1/2	5	1/4	0.275	5.000	4.999	4.500	4.500	4.501	5.000	
	2500	-4500	-562				XXX	9/16							0.619
	2500	-4625	XXX	4	5/8	5	1/8	1/4	0.275	5.125	5.124	4.625	4.625	4.626	5.125
	2500	-4625	-562					XXX	9/16						
	2500	-4750	XXX	4	3/4	5	1/4	1/4	0.275	5.250	5.249	4.750	4.750	4.751	5.250
	2500	-4750	-562					XXX	9/16						
	2500	-4875	XXX	4	7/8	5	3/8	1/4	0.275	5.375	5.374	4.875	4.875	4.876	5.375
	2500	-4875	-562					XXX	9/16						
	2500	-5000	XXX	5		5	1/2	1/4	0.275	5.500	5.499	5.000	5.000	5.001	5.500
	2500	-5000	-562					XXX	9/16						
	2500	-5125	XXX	5	1/8	5	5/8	1/4	0.275	5.625	5.624	5.125	5.125	5.126	5.625
	2500	-5125	-562					XXX	9/16						
	2500	-5250	XXX	5	1/4	5	3/4	1/4	0.275	5.750	5.749	5.250	5.250	5.251	5.750
	2500	-5250	-562					XXX	9/16						

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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.003]	[+0.000 -0.002]	[+0.003 -0.000]
1/4	2500	-5375	XXX	5 3/8	5 7/8	1/4	0.275	5.875	5.874	5.375	5.375	5.376	5.875	
	2500	-5375	-562			XXX	9/16							0.619
	2500	-5500	XXX	5 1/2	6	1/4	0.275	6.000	5.999	5.500	5.500	5.501	6.000	
	2500	-5500	-562			XXX	9/16							0.619
	2500	-5625	XXX	5 5/8	6 1/8	1/4	0.275	6.125	6.124	5.625	5.625	5.626	6.125	
	2500	-5625	-562			XXX	9/16							0.619
	2500	-5750	XXX	5 3/4	6 1/4	1/4	0.275	6.250	6.249	5.750	5.750	5.751	6.250	
	2500	-5750	-562			XXX	9/16							0.619
	2500	-5875	XXX	5 7/8	6 3/8	1/4	0.275	6.375	6.374	5.875	5.875	5.876	6.375	
	2500	-5875	-562			XXX	9/16							0.619
	2500	-6000	XXX	6	6 1/2	1/4	0.275	6.500	6.499	6.000	6.000	6.001	6.500	
	2500	-6000	-562			XXX	9/16							0.619
	2500	-6250	XXX	6 1/4	6 3/4	1/4	0.275	6.750	6.749	6.250	6.250	6.251	6.750	
	2500	-6250	-562			XXX	9/16							0.619
	2500	-6500	XXX	6 1/2	7	1/4	0.275	7.000	6.999	6.500	6.500	6.501	7.000	
	2500	-6500	-562			XXX	9/16							0.619
	2500	-6750	XXX	6 3/4	7 1/4	1/4	0.275	7.250	7.249	6.750	6.750	6.751	7.250	
	2500	-6750	-562			XXX	9/16							0.619
	2500	-7000	XXX	7	7 1/2	1/4	0.275	7.500	7.499	7.000	7.000	7.001	7.500	
	2500	-7000	-562			XXX	9/16							0.619
	2500	-7250	XXX	7 1/4	7 3/4	1/4	0.275	7.750	7.749	7.250	7.250	7.251	7.750	
	2500	-7250	-562			XXX	9/16							0.619
	2500	-7500	XXX	7 1/2	8	1/4	0.275	8.000	7.999	7.500	7.500	7.501	8.000	
	2500	-7500	-562			XXX	9/16							0.619
	2500	-7750	XXX	7 3/4	8 1/4	1/4	0.275	8.250	8.249	7.750	7.750	7.751	8.250	
	2500	-7750	-562			XXX	9/16							0.619
	2500	-8000	XXX	8	8 1/2	1/4	0.275	8.500	8.499	8.000	8.000	8.001	8.500	
	2500	-8000	-562			XXX	9/16							0.619
	2500	-8250	XXX	8 1/4	8 3/4	1/4	0.275	8.750	8.749	8.250	8.250	8.251	8.750	
	2500	-8250	-562			XXX	9/16							0.619
	2500	-8500	XXX	8 1/2	9	1/4	0.275	9.000	8.999	8.500	8.500	8.501	9.000	
	2500	-8500	-562			XXX	9/16							0.619
	2500	-8750	XXX	8 3/4	9 1/4	1/4	0.275	9.250	9.249	8.750	8.750	8.751	9.250	
	2500	-8750	-562			XXX	9/16							0.619

Note:
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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.003]	[+0.000 -0.002]	[+0.003 -0.000]
1/4	2500	-9000	XXX		9	9 1/2	1/4	0.275	9.500	9.499	9.000	9.000	9.001	9.500
	2500	-9000	-562	XXX			9/16	0.619						
	2500	-9250	XXX		9 1/4	9 3/4	1/4	0.275	9.750	9.749	9.250	9.250	9.251	9.750
	2500	-9250	-562	XXX			9/16	0.619						
	2500	-9500	XXX		9 1/2	10	1/4	0.275	10.000	9.999	9.500	9.500	9.501	10.000
	2500	-9500	-562	XXX			9/16	0.619						
	2500	-9750	XXX		9 3/4	10 1/4	1/4	0.275	10.250	10.249	9.750	9.750	9.751	10.250
	2500	-9750	-562	XXX			9/16	0.619						
	2500	-10000	XXX		10	10 1/2	1/4	0.275	10.500	10.499	10.000	10.000	10.001	10.500
	2500	-10000	-562	XXX			9/16	0.619						

HPS LOADED LIP U-CUP FAMILY													
Nom Cross Section (inch)	Part Number			Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
								Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
							[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.004]	[+0.000 -0.002]	[+0.003 -0.000]	[+0.004 -0.000]
5/16	3120	-0375	XXX	3/8	1	5/16	0.344	1.000	0.998	0.375	0.375	0.377	1.000
	3120	-0375	-500			XXX	1/2						
	3120	-0437	XXX	7/16	1 1/16	5/16	0.344	1.062	1.060	0.437	0.437	0.439	1.062
	3120	-0437	-500			XXX	1/2						
	3120	-0500	XXX	1/2	1 1/8	5/16	0.344	1.125	1.123	0.500	0.500	0.502	1.125
	3120	-0500	-500			XXX	1/2						
	3120	-0562	XXX	9/16	1 3/16	5/16	0.344	1.187	1.185	0.562	0.562	0.564	1.187
	3120	-0562	-500			XXX	1/2						
	3120	-0625	XXX	5/8	1 1/4	5/16	0.344	1.250	1.248	0.625	0.625	0.627	1.250
	3120	-0625	-500			XXX	1/2						
	3120	-0687	XXX	11/16	1 5/16	5/16	0.344	1.312	1.310	0.687	0.687	0.689	1.312
	3120	-0687	-500			XXX	1/2						
	3120	-0750	XXX	3/4	1 3/8	5/16	0.344	1.375	1.373	0.750	0.750	0.752	1.375
	3120	-0750	-500			XXX	1/2						
	3120	-0812	XXX	13/16	1 7/16	5/16	0.344	1.437	1.435	0.812	0.812	0.814	1.437
	3120	-0812	-500			XXX	1/2						
	3120	-0875	XXX	7/8	1 1/2	5/16	0.344	1.500	1.498	0.875	0.875	0.877	1.500
	3120	-0875	-500			XXX	1/2						
	3120	-0937	XXX	15/16	1 9/16	5/16	0.344	1.562	1.560	0.937	0.937	0.939	1.562
	3120	-0937	-500			XXX	1/2						
	3120	-1000	XXX	1	1 5/8	5/16	0.344	1.625	1.623	1.000	1.000	1.002	1.625
	3120	-1000	-500			XXX	1/2						
	3120	-1062	XXX	1 1/16	1 11/16	5/16	0.344	1.687	1.685	1.062	1.062	1.064	1.687
	3120	-1062	-500			XXX	1/2						
	3120	-1125	XXX	1 1/8	1 3/4	5/16	0.344	1.750	1.748	1.125	1.125	1.127	1.750
	3120	-1125	-500			XXX	1/2						
	3120	-1187	XXX	1 3/16	1 13/16	5/16	0.344	1.812	1.810	1.187	1.187	1.189	1.812
	3120	-1187	-500			XXX	1/2						
	3120	-1250	XXX	1 1/4	1 7/8	5/16	0.344	1.875	1.873	1.250	1.250	1.252	1.875
	3120	-1250	-500			XXX	1/2						
	3120	-1312	XXX	1 5/16	1 15/16	5/16	0.344	1.937	1.935	1.312	1.312	1.314	1.937
	3120	-1312	-500			XXX	1/2						
	3120	-1375	XXX	1 3/8	2	5/16	0.344	2.000	1.998	1.375	1.375	1.377	2.000
	3120	-1375	-500			XXX	1/2						

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HPS LOADED LIP U-CUP FAMILY													
Nom Cross Section (inch)	Part Number			Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
								Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
							[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.004]	[+0.000 -0.002]	[+0.003 -0.000]	[+0.004 -0.000]
5/16	3120	-1437	XXX	1	7/16	5/16	0.344	2.062	2.060	1.437	1.437	1.439	2.062
	3120	-1437	-500			XXX	1/2						
	3120	-1500	XXX	1	1/2	5/16	0.344	2.125	2.123	1.500	1.500	1.502	2.125
	3120	-1500	-500			XXX	1/2						
	3120	-1625	XXX	1	5/8	5/16	0.344	2.250	2.248	1.625	1.625	1.627	2.250
	3120	-1625	-500			XXX	1/2						
	3120	-1750	XXX	1	3/4	5/16	0.344	2.375	2.373	1.750	1.750	1.752	2.375
	3120	-1750	-500			XXX	1/2						
	3120	-1875	XXX	1	7/8	5/16	0.344	2.500	2.498	1.875	1.875	1.877	2.500
	3120	-1875	-500			XXX	1/2						
	3120	-2000	XXX	2	5/8	5/16	0.344	2.625	2.623	2.000	2.000	2.002	2.625
	3120	-2000	-500			XXX	1/2						
	3120	-2125	XXX	2	1/8	5/16	0.344	2.750	2.748	2.125	2.125	2.127	2.750
	3120	-2125	-500			XXX	1/2						
	3120	-2250	XXX	2	1/4	5/16	0.344	2.875	2.873	2.250	2.250	2.252	2.875
	3120	-2250	-500			XXX	1/2						
	3120	-2375	XXX	2	3/8	5/16	0.344	3.000	2.998	2.375	2.375	2.377	3.000
	3120	-2375	-500			XXX	1/2						
	3120	-2500	XXX	2	1/2	5/16	0.344	3.125	3.123	2.500	2.500	2.502	3.125
	3120	-2500	-500			XXX	1/2						
	3120	-2625	XXX	2	5/8	5/16	0.344	3.250	3.248	2.625	2.625	2.627	3.250
	3120	-2625	-500			XXX	1/2						
	3120	-2750	XXX	2	3/4	5/16	0.344	3.375	3.373	2.750	2.750	2.752	3.375
	3120	-2750	-500			XXX	1/2						
	3120	-2875	XXX	2	7/8	5/16	0.344	3.500	3.498	2.875	2.875	2.877	3.500
	3120	-2875	-500			XXX	1/2						
	3120	-3000	XXX	3	5/8	5/16	0.344	3.625	3.623	3.000	3.000	3.002	3.625
	3120	-3000	-500			XXX	1/2						
	3120	-3125	XXX	3	1/8	5/16	0.344	3.750	3.748	3.125	3.125	3.127	3.750
	3120	-3125	-500			XXX	1/2						
	3120	-3250	XXX	3	1/4	5/16	0.344	3.875	3.873	3.250	3.250	3.252	3.875
	3120	-3250	-500			XXX	1/2						
	3120	-3375	XXX	3	3/8	5/16	0.344	4.000	3.998	3.375	3.375	3.377	4.000
	3120	-3375	-500			XXX	1/2						

Note:
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HPS LOADED LIP U-CUP FAMILY															
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application			
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)	
									[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.004]	[+0.000 -0.002]	[+0.003 -0.000]	[+0.004 -0.000]
5/16	3120	-3500	XXX	3	1/2	4	1/8	5/16	0.344	4.125	4.123	3.500	3.500	3.502	4.125
	3120	-3500	-500					XXX	1/2						
	3120	-3625	XXX	3	5/8	4	1/4	5/16	0.344	4.250	4.248	3.625	3.625	3.627	4.250
	3120	-3625	-500					XXX	1/2						
	3120	-3750	XXX	3	3/4	4	3/8	5/16	0.344	4.375	4.373	3.750	3.750	3.752	4.375
	3120	-3750	-500					XXX	1/2						
	3120	-3875	XXX	3	7/8	4	1/2	5/16	0.344	4.500	4.498	3.875	3.875	3.877	4.500
	3120	-3875	-500					XXX	1/2						
	3120	-4000	XXX	4		4	5/8	5/16	0.344	4.625	4.623	4.000	4.000	4.002	4.625
	3120	-4000	-562					XXX	9/16						
	3120	-4125	XXX	4	1/8	4	3/4	5/16	0.344	4.750	4.748	4.125	4.125	4.127	4.750
	3120	-4125	-562					XXX	9/16						
	3120	-4250	XXX	4	1/4	4	7/8	5/16	0.344	4.875	4.873	4.250	4.250	4.252	4.875
	3120	-4250	-562					XXX	9/16						
	3120	-4375	XXX	4	3/8	5		5/16	0.344	5.000	4.998	4.375	4.375	4.377	5.000
	3120	-4375	-562					XXX	9/16						
	3120	-4500	XXX	4	1/2	5	1/8	5/16	0.344	5.125	5.123	4.500	4.500	4.502	5.125
	3120	-4500	-625					XXX	5/8						
	3120	-4625	XXX	4	5/8	5	1/4	5/16	0.344	5.250	5.248	4.625	4.625	4.627	5.250
	3120	-4625	-625					XXX	5/8						
	3120	-4750	XXX	4	3/4	5	3/8	5/16	0.344	5.375	5.373	4.750	4.750	4.752	5.375
	3120	-4750	-625					XXX	5/8						
	3120	-4875	XXX	4	7/8	5	1/2	5/16	0.344	5.500	5.498	4.875	4.875	4.877	5.500
	3120	-4875	-625					XXX	5/8						
	3120	-5000	XXX	5		5	5/8	5/16	0.344	5.625	5.623	5.000	5.000	5.002	5.625
	3120	-5000	-625					XXX	5/8						
	3120	-5125	XXX	5	1/8	5	3/4	5/16	0.344	5.750	5.748	5.125	5.125	5.127	5.750
	3120	-5125	-625					XXX	5/8						
	3120	-5250	XXX	5	1/4	5	7/8	5/16	0.344	5.875	5.873	5.250	5.250	5.252	5.875
	3120	-5250	-625					XXX	5/8						
	3120	-5375	XXX	5	3/8	6		5/16	0.344	6.000	5.998	5.375	5.375	5.377	6.000
	3120	-5375	-625					XXX	5/8						
	3120	-5500	XXX	5	1/2	6	1/8	5/16	0.344	6.125	6.123	5.500	5.500	5.502	6.125
	3120	-5500	-625					XXX	5/8						

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HPS LOADED LIP U-CUP FAMILY															
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application			
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)	
									[+0.010 -0.000]	[+0.003 -0.000]	[+0.000 -0.002]	[+0.000 -0.004]	[+0.000 -0.002]	[+0.003 -0.000]	[+0.004 -0.000]
5/16	3120	-5625	XXX	5	5/8	6	1/4	5/16	0.344	6.250	6.248	5.625	5.625	5.627	6.250
	3120	-5625	-625					XXX	5/8						
	3120	-5750	XXX	5	3/4	6	3/8	5/16	0.344	6.375	6.373	5.750	5.750	5.752	6.375
	3120	-5750	-625					XXX	5/8						
	3120	-5875	XXX	5	7/8	6	1/2	5/16	0.344	6.500	6.498	5.875	5.875	5.877	6.500
	3120	-5875	-625					XXX	5/8						
	3120	-6000	XXX	6		6	5/8	5/16	0.344	6.625	6.623	6.000	6.000	6.002	6.625
	3120	-6000	-625					XXX	5/8						
	3120	-6125	XXX	6	1/8	6	3/4	5/16	0.344	6.750	6.748	6.125	6.125	6.127	6.750
	3120	-6125	-625					XXX	5/8						
	3120	-6250	XXX	6	1/4	6	7/8	5/16	0.344	6.875	6.873	6.250	6.250	6.252	6.875
	3120	-6250	-625					XXX	5/8						
	3120	-6375	XXX	6	3/8	7		5/16	0.344	7.000	6.998	6.375	6.375	6.377	7.000
	3120	-6375	-625					XXX	5/8						
	3120	-6500	XXX	6	1/2	7	1/8	5/16	0.344	7.125	7.123	6.500	6.500	6.502	7.125
	3120	-6500	-625					XXX	5/8						
	3120	-6625	XXX	6	5/8	7	1/4	5/16	0.344	7.250	7.248	6.625	6.625	6.627	7.250
	3120	-6625	-625					XXX	5/8						
	3120	-6750	XXX	6	3/4	7	3/8	5/16	0.344	7.375	7.373	6.750	6.750	6.752	7.375
	3120	-6750	-625					XXX	5/8						
	3120	-6875	XXX	6	7/8	7	1/2	5/16	0.344	7.500	7.498	6.875	6.875	6.877	7.500
	3120	-6875	-625					XXX	5/8						
	3120	-7000	XXX	7		7	5/8	5/16	0.344	7.625	7.623	7.000	7.000	7.002	7.625
	3120	-7000	-625					XXX	5/8						
	3120	-7125	XXX	7	1/8	7	3/4	5/16	0.344	7.750	7.748	7.125	7.125	7.127	7.750
	3120	-7125	-625					XXX	5/8						
	3120	-7250	XXX	7	1/4	7	7/8	5/16	0.344	7.875	7.873	7.250	7.250	7.252	7.875
	3120	-7250	-625					XXX	5/8						
	3120	-7375	XXX	7	3/8	8		5/16	0.344	8.000	7.998	7.375	7.375	7.377	8.000
	3120	-7375	-625					XXX	5/8						

HPS LOADED LIP U-CUP FAMILY													
Nom Cross Section (inch)	Part Number			Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
								Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
							[+0.010 -0.000]	[+0.004 -0.000]	[+0.000 -0.002]	[+0.000 -0.005]	[+0.000 -0.002]	[+0.004 -0.000]	[+0.005 -0.000]
3/8	3750	-0500	XXX	1/2	1 1/4	3/8	0.413	1.250	1.248	0.500	0.500	0.502	1.250
	3750	-0500	-625			XXX	5/8						
	3750	-0562	XXX	9/16	1 5/16	3/8	0.413	1.312	1.310	0.562	0.562	0.564	1.312
	3750	-0562	-625			XXX	5/8						
	3750	-0625	XXX	5/8	1 3/8	3/8	0.413	1.375	1.373	0.625	0.625	0.627	1.375
	3750	-0625	-625			XXX	5/8						
	3750	-0687	XXX	11/16	1 7/16	3/8	0.413	1.437	1.435	0.687	0.687	0.689	1.437
	3750	-0687	-625			XXX	5/8						
	3750	-0750	XXX	3/4	1 1/2	3/8	0.413	1.500	1.498	0.750	0.750	0.752	1.500
	3750	-0750	-625			XXX	5/8						
	3750	-0812	XXX	13/16	1 9/16	3/8	0.413	1.562	1.560	0.812	0.812	0.814	1.562
	3750	-0812	-625			XXX	5/8						
	3750	-0875	XXX	7/8	1 5/8	3/8	0.413	1.625	1.623	0.875	0.875	0.877	1.625
	3750	-0875	-625			XXX	5/8						
	3750	-0937	XXX	15/16	1 11/16	3/8	0.413	1.687	1.685	0.937	0.937	0.939	1.687
	3750	-0937	-625			XXX	5/8						
	3750	-1000	XXX	1	1 3/4	3/8	0.413	1.750	1.748	1.000	1.000	1.002	1.750
	3750	-1000	-625			XXX	5/8						
	3750	-1062	XXX	1 1/16	1 13/16	3/8	0.413	1.812	1.810	1.062	1.062	1.064	1.812
	3750	-1062	-625			XXX	5/8						
	3750	-1125	XXX	1 1/8	1 7/8	3/8	0.413	1.875	1.873	1.125	1.125	1.127	1.875
	3750	-1125	-625			XXX	5/8						
	3750	-1187	XXX	1 3/16	1 15/16	3/8	0.413	1.937	1.935	1.187	1.187	1.189	1.937
	3750	-1187	-625			XXX	5/8						
	3750	-1250	XXX	1 1/4	2	3/8	0.413	2.000	1.998	1.250	1.250	1.252	2.000
	3750	-1250	-625			XXX	5/8						
	3750	-1312	XXX	1 5/16	2 1/16	3/8	0.413	2.062	2.060	1.312	1.312	1.314	2.062
	3750	-1312	-625			XXX	5/8						
	3750	-1375	XXX	1 3/8	2 1/8	3/8	0.413	2.125	2.123	1.375	1.375	1.377	2.125
	3750	-1375	-625			XXX	5/8						
	3750	-1437	XXX	1 7/16	2 3/16	3/8	0.413	2.187	2.185	1.437	1.437	1.439	2.187
	3750	-1437	-625			XXX	5/8						
	3750	-1500	XXX	1 1/2	2 1/4	3/8	0.413	2.250	2.248	1.500	1.500	1.502	2.250
	3750	-1500	-625			XXX	5/8						

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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.004 -0.000]	[+0.000 -0.002]	[+0.000 -0.005]	[+0.000 -0.002]	[+0.004 -0.000]
3/8	3750	-1625	XXX	1 5/8	2 3/8	3/8	0.413	2.375	2.373	1.625	1.625	1.627	2.375	
	3750	-1625	-625			XXX	5/8							0.688
	3750	-1750	XXX	1 3/4	2 1/2	3/8	0.413	2.500	2.498	1.750	1.750	1.752	2.500	
	3750	-1750	-625			XXX	5/8							0.688
	3750	-1875	XXX	1 7/8	2 5/8	3/8	0.413	2.625	2.623	1.875	1.875	1.877	2.625	
	3750	-1875	-625			XXX	5/8							0.688
	3750	-2000	XXX	2	2 3/4	3/8	0.413	2.750	2.748	2.000	2.000	2.002	2.750	
	3750	-2000	-625			XXX	5/8							0.688
	3750	-2125	XXX	2 1/8	2 7/8	3/8	0.413	2.875	2.873	2.125	2.125	2.127	2.875	
	3750	-2125	-625			XXX	5/8							0.688
	3750	-2250	XXX	2 1/4	3	3/8	0.413	3.000	2.998	2.250	2.250	2.252	3.000	
	3750	-2250	-625			XXX	5/8							0.688
	3750	-2375	XXX	2 3/8	3 1/8	3/8	0.413	3.125	3.123	2.375	2.375	2.377	3.125	
	3750	-2375	-625			XXX	5/8							0.688
	3750	-2500	XXX	2 1/2	3 1/4	3/8	0.413	3.250	3.248	2.500	2.500	2.502	3.250	
	3750	-2500	-625			XXX	5/8							0.688
	3750	-2625	XXX	2 5/8	3 3/8	3/8	0.413	3.375	3.373	2.625	2.625	2.627	3.375	
	3750	-2625	-625			XXX	5/8							0.688
	3750	-2750	XXX	2 3/4	3 1/2	3/8	0.413	3.500	3.498	2.750	2.750	2.752	3.500	
	3750	-2750	-625			XXX	5/8							0.688
	3750	-2875	XXX	2 7/8	3 5/8	3/8	0.413	3.625	3.623	2.875	2.875	2.877	3.625	
	3750	-2875	-625			XXX	5/8							0.688
	3750	-3000	XXX	3	3 3/4	3/8	0.413	3.750	3.748	3.000	3.000	3.002	3.750	
	3750	-3000	-625			XXX	5/8							0.688
	3750	-3125	XXX	3 1/8	3 7/8	3/8	0.413	3.875	3.873	3.125	3.125	3.127	3.875	
	3750	-3125	-625			XXX	5/8							0.688
	3750	-3250	XXX	3 1/4	4	3/8	0.413	4.000	3.998	3.250	3.250	3.252	4.000	
	3750	-3250	-625			XXX	5/8							0.688
	3750	-3375	XXX	3 3/8	4 1/8	3/8	0.413	4.125	4.123	3.375	3.375	3.377	4.125	
	3750	-3375	-625			XXX	5/8							0.688
	3750	-3500	XXX	3 1/2	4 1/4	3/8	0.413	4.250	4.248	3.500	3.500	3.502	4.250	
	3750	-3500	-625			XXX	5/8							0.688
	3750	-3625	XXX	3 5/8	4 3/8	3/8	0.413	4.375	4.373	3.625	3.625	3.627	4.375	
	3750	-3625	-625			XXX	5/8							0.688

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HPS LOADED LIP U-CUP FAMILY															
Nom Cross Section (inch)	Part Number			Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application				
								Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)		
							[+0.010 -0.000]	[+0.004 -0.000]	[+0.000 -0.002]	[+0.000 -0.005]	[+0.000 -0.002]	[+0.004 -0.000]	[+0.005 -0.000]		
3/8	3750	-3750	XXX	3	3/4	4	1/2	3/8	0.413	4.500	4.498	3.750	3.750	3.752	4.500
	3750	-3750	-625					XXX	5/8						
	3750	-3875	XXX	3	7/8	4	5/8	3/8	0.413	4.625	4.623	3.875	3.875	3.877	4.625
	3750	-3875	-625					XXX	5/8						
	3750	-4000	XXX	4		4	3/4	3/8	0.413	4.750	4.748	4.000	4.000	4.002	4.750
	3750	-4000	-625					XXX	5/8						
	3750	-4125	XXX	4	1/8	4	7/8	3/8	0.413	4.875	4.873	4.125	4.125	4.127	4.875
	3750	-4125	-625					XXX	5/8						
	3750	-4250	XXX	4	1/4	5		3/8	0.413	5.000	4.998	4.250	4.250	4.252	5.000
	3750	-4250	-625					XXX	5/8						
	3750	-4375	XXX	4	3/8	5	1/8	3/8	0.413	5.125	5.123	4.375	4.375	4.377	5.125
	3750	-4375	-625					XXX	5/8						
	3750	-4500	XXX	4	1/2	5	1/4	3/8	0.413	5.250	5.248	4.500	4.500	4.502	5.250
	3750	-4500	-625					XXX	5/8						
	3750	-4625	XXX	4	5/8	5	3/8	3/8	0.413	5.375	5.373	4.625	4.625	4.627	5.375
	3750	-4625	-625					XXX	5/8						
	3750	-4750	XXX	4	3/4	5	1/2	3/8	0.413	5.500	5.498	4.750	4.750	4.752	5.500
	3750	-4750	-625					XXX	5/8						
	3750	-4875	XXX	4	7/8	5	5/8	3/8	0.413	5.625	5.623	4.875	4.875	4.877	5.625
	3750	-4875	-625					XXX	5/8						
	3750	-5000	XXX	5		5	3/4	3/8	0.413	5.750	5.748	5.000	5.000	5.002	5.750
	3750	-5000	-625					XXX	5/8						
	3750	-5125	XXX	5	1/8	5	7/8	3/8	0.413	5.875	5.873	5.125	5.125	5.127	5.875
	3750	-5125	-625					XXX	5/8						
	3750	-5250	XXX	5	1/4	6		3/8	0.413	6.000	5.998	5.250	5.250	5.252	6.000
	3750	-5250	-625					XXX	5/8						
	3750	-5375	XXX	5	3/8	6	1/8	3/8	0.413	6.125	6.123	5.375	5.375	5.377	6.125
	3750	-5375	-625					XXX	5/8						
	3750	-5500	XXX	5	1/2	6	1/4	3/8	0.413	6.250	6.248	5.500	5.500	5.502	6.250
	3750	-5500	-625					XXX	5/8						
	3750	-5625	XXX	5	5/8	6	3/8	3/8	0.413	6.375	6.373	5.625	5.625	5.627	6.375
	3750	-5625	-625					XXX	5/8						
	3750	-5750	XXX	5	3/4	6	1/2	3/8	0.413	6.500	6.498	5.750	5.750	5.752	6.500
	3750	-5750	-625					XXX	5/8						

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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.004 -0.000]	[+0.000 -0.002]	[+0.000 -0.005]	[+0.000 -0.002]	[+0.004 -0.000]
3/8	3750	-5875	XXX		5 7/8	6 5/8	3/8	0.413	6.625	6.623	5.875	5.875	5.877	6.625
	3750	-5875	-625	XXX			5/8	0.688						
	3750	-6000	XXX		6	6 3/4	3/8	0.413	6.750	6.748	6.000	6.000	6.002	6.750
	3750	-6000	-625	XXX			5/8	0.688						
	3750	-6250	XXX		6 1/4	7	3/8	0.413	7.000	6.998	6.250	6.250	6.252	7.000
	3750	-6250	-625	XXX			5/8	0.688						
	3750	-6500	XXX		6 1/2	7 1/4	3/8	0.413	7.250	7.248	6.500	6.500	6.502	7.250
	3750	-6500	-625	XXX			5/8	0.688						
	3750	-6750	XXX		6 3/4	7 1/2	3/8	0.413	7.500	7.498	6.750	6.750	6.752	7.500
	3750	-6750	-625	XXX			5/8	0.688						
	3750	-7000	XXX		7	7 3/4	3/8	0.413	7.750	7.748	7.000	7.000	7.002	7.750
	3750	-7000	-625	XXX			5/8	0.688						

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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.005 -0.000]	[+0.000 -0.003]	[+0.000 -0.007]	[+0.000 -0.003]	[+0.005 -0.000]
1/2	5000 -1000 XXX	1	2	1/2	0.550	2.000	1.998	1.000	1.000	1.002	2.000			
	5000 -1000 -750 XXX			3/4	0.825									
	5000 -1250 XXX	1 1/4	2 1/4	1/2	0.550	2.250	2.248	1.250	1.250	1.252	2.250			
	5000 -1250 -750 XXX			3/4	0.825									
	5000 -1375 XXX	1 3/8	2 3/8	1/2	0.550	2.375	2.373	1.375	1.375	1.377	2.375			
	5000 -1375 -750 XXX			3/4	0.825									
	5000 -1500 XXX	1 1/2	2 1/2	1/2	0.550	2.500	2.498	1.500	1.500	1.502	2.500			
	5000 -1500 -750 XXX			3/4	0.825									
	5000 -1750 XXX	1 3/4	2 3/4	1/2	0.550	2.750	2.748	1.750	1.750	1.752	2.750			
	5000 -1750 -750 XXX			3/4	0.825									
	5000 -2000 XXX	2	3	1/2	0.550	3.000	2.998	2.000	2.000	2.002	3.000			
	5000 -2000 -750 XXX			3/4	0.825									
	5000 -2250 XXX	2 1/4	3 1/4	1/2	0.550	3.250	3.248	2.250	2.250	2.252	3.250			
	5000 -2250 -750 XXX			3/4	0.825									
	5000 -2375 XXX	2 3/8	3 3/8	1/2	0.550	3.375	3.373	2.375	2.375	2.377	3.375			
	5000 -2375 -750 XXX			3/4	0.825									
	5000 -2500 XXX	2 1/2	3 1/2	1/2	0.550	3.500	3.498	2.500	2.500	2.502	3.500			
	5000 -2500 -750 XXX			3/4	0.825									
	5000 -2750 XXX	2 3/4	3 3/4	1/2	0.550	3.750	3.748	2.750	2.750	2.752	3.750			
	5000 -2750 -750 XXX			3/4	0.825									
	5000 -3000 XXX	3	4	1/2	0.550	4.000	3.998	3.000	3.000	3.002	4.000			
	5000 -3000 -750 XXX			3/4	0.825									
	5000 -3250 XXX	3 1/4	4 1/4	1/2	0.550	4.250	4.248	3.250	3.250	3.252	4.250			
	5000 -3250 -750 XXX			3/4	0.825									
	5000 -3500 XXX	3 1/2	4 1/2	1/2	0.550	4.500	4.498	3.500	3.500	3.502	4.500			
	5000 -3500 -750 XXX			3/4	0.825									
	5000 -3750 XXX	3 3/4	4 3/4	1/2	0.550	4.750	4.748	3.750	3.750	3.752	4.750			
	5000 -3750 -750 XXX			3/4	0.825									
	5000 -4000 XXX	4	5	1/2	0.550	5.000	4.998	4.000	4.000	4.002	5.000			
	5000 -4000 -750 XXX			3/4	0.825									
	5000 -4250 XXX	4 1/4	5 1/4	1/2	0.550	5.250	5.248	4.250	4.250	4.252	5.250			
	5000 -4250 -750 XXX			3/4	0.825									
	5000 -4375 XXX	4 3/8	5 3/8	1/2	0.550	5.375	5.373	4.375	4.375	4.377	5.375			
	5000 -4375 -750 XXX			3/4	0.825									

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HPS LOADED LIP U-CUP FAMILY														
Nom Cross Section (inch)	Part Number				Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
									Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
									[+0.010 -0.000]	[+0.005 -0.000]	[+0.000 -0.003]	[+0.000 -0.007]	[+0.000 -0.003]	[+0.005 -0.000]
1/2	5000 -4500 XXX	4 1/2	5 1/2	1/2	0.550	5.500	5.498	4.500	4.500	4.502	5.500			
	3/4			0.825										
	5000 -4750 XXX	4 3/4	5 3/4	1/2	0.550	5.750	5.748	4.750	4.750	4.752	5.750			
	5000 -4750 -750 XXX			3/4	0.825									
	5000 -5000 XXX	5	6	1/2	0.550	6.000	5.998	5.000	5.000	5.002	6.000			
	5000 -5000 -750 XXX			3/4	0.825									
	5000 -5250 XXX	5 1/4	6 1/4	1/2	0.550	6.250	6.248	5.250	5.250	5.252	6.250			
	5000 -5250 -750 XXX			3/4	0.825									
	5000 -5375 XXX	5 3/8	6 3/8	1/2	0.550	6.375	6.373	5.375	5.375	5.377	6.375			
	5000 -5375 -750 XXX			3/4	0.825									
	5000 -5500 XXX	5 1/2	6 1/2	1/2	0.550	6.500	6.498	5.500	5.500	5.502	6.500			
	5000 -5500 -750 XXX			3/4	0.825									
	5000 -5750 XXX	5 3/4	6 3/4	1/2	0.550	6.750	6.748	5.750	5.750	5.752	6.750			
	5000 -5750 -750 XXX			3/4	0.825									
	5000 -6000 XXX	6	7	1/2	0.550	7.000	6.998	6.000	6.000	6.002	7.000			
	5000 -6000 -750 XXX			3/4	0.825									
	5000 -6250 XXX	6 1/4	7 1/4	1/2	0.550	7.250	7.248	6.250	6.250	6.252	7.250			
	5000 -6250 -750 XXX			3/4	0.825									
	5000 -6500 XXX	6 1/2	7 1/2	1/2	0.550	7.500	7.498	6.500	6.500	6.502	7.500			
	5000 -6500 -750 XXX			3/4	0.825									
	5000 -6750 XXX	6 3/4	7 3/4	1/2	0.550	7.750	7.748	6.750	6.750	6.752	7.750			
	5000 -6750 -750 XXX			3/4	0.825									
	5000 -7000 XXX	7	8	1/2	0.550	8.000	7.998	7.000	7.000	7.002	8.000			
	5000 -7000 -750 XXX			3/4	0.825									
	5000 -7250 XXX	7 1/4	8 1/4	1/2	0.550	8.250	8.248	7.250	7.250	7.252	8.250			
	5000 -7250 -750 XXX			3/4	0.825									
	5000 -7500 XXX	7 1/2	8 1/2	1/2	0.550	8.500	8.498	7.500	7.500	7.502	8.500			
	5000 -7500 -750 XXX			3/4	0.825									
	5000 -7750 XXX	7 3/4	8 3/4	1/2	0.550	8.750	8.748	7.750	7.750	7.752	8.750			
	5000 -7750 -750 XXX			3/4	0.825									
	5000 -8000 XXX	8	9	1/2	0.550	9.000	8.998	8.000	8.000	8.002	9.000			
	5000 -8000 -750 XXX			3/4	0.825									
	5000 -8250 XXX	8 1/4	9 1/4	1/2	0.550	9.250	9.248	8.250	8.250	8.252	9.250			
	5000 -8250 -750 XXX			3/4	0.825									

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HPS LOADED LIP U-CUP FAMILY											
Nom Cross Section (inch)	Part Number	Nom I.D. (inch)	Nom O.D. (inch)	Nom Length (inch)	Width "A" (inch)	Piston Application			Rod Application		
						Bore "B" (inch)	Piston "C" (inch)	Groove "D" (inch)	Rod "E" (inch)	Throat "F" (inch)	Groove "G" (inch)
						[+0.010 -0.000]	[+0.005 -0.000]	[+0.000 -0.003]	[+0.000 -0.003]	[+0.005 -0.000]	[+0.007 -0.000]
1/2	5000 -8500 XXX	8 1/2	9 1/2	1/2	0.550	9.500	9.498	8.500	8.500	8.502	9.500
	5000 -8500 -750 XXX			3/4	0.825						
	5000 -8750 XXX	8 3/4	9 3/4	1/2	0.550	9.750	9.748	8.750	8.750	8.752	9.750
	5000 -8750 -750 XXX			3/4	0.825						
	5000 -9000 XXX	9	10	1/2	0.550	10.000	9.998	9.000	9.000	9.002	10.000
	5000 -9000 -750 XXX			3/4	0.825						
	5000 -9250 XXX	9 1/4	10 1/4	1/2	0.550	10.250	10.248	9.250	9.250	9.252	10.250
	5000 -9250 -750 XXX			3/4	0.825						
	5000 -9500 XXX	9 1/2	10 1/2	1/2	0.550	10.500	10.498	9.500	9.500	9.502	10.500
	5000 -9500 -750 XXX			3/4	0.825						
	5000 -9750 XXX	9 3/4	10 3/4	1/2	0.550	10.750	10.748	9.750	9.750	9.752	10.750
	5000 -9750 -750 XXX			3/4	0.825						
	5000 -10000 XXX	10	11	1/2	0.550	11.000	10.998	10.000	10.000	10.002	11.000
	5000 -10000 -750 XXX			3/4	0.825						
	5000 -10500 XXX	10 1/2	11 1/2	1/2	0.550	11.500	11.498	10.500	10.500	10.502	11.500
	5000 -10500 -750 XXX			3/4	0.825						
	5000 -11000 XXX	11	12	1/2	0.550	12.000	11.998	11.000	11.000	11.002	12.000
	5000 -11000 -750 XXX			3/4	0.825						
	5000 -11500 XXX	11 1/2	12 1/2	1/2	0.550	12.500	12.498	11.500	11.500	11.502	12.500
	5000 -11500 -750 XXX			3/4	0.825						
	5000 -12000 XXX	12	13	1/2	0.550	13.000	12.998	12.000	12.000	12.002	13.000
	5000 -12000 -750 XXX			3/4	0.825						
	5000 -12500 XXX	12 1/2	13 1/2	1/2	0.550	13.500	13.498	12.500	12.500	12.502	13.500
	5000 -12500 -750 XXX			3/4	0.825						
	5000 -13000 XXX	13	14	1/2	0.550	14.000	13.998	13.000	13.000	13.002	14.000
	5000 -13000 -750 XXX			3/4	0.825						
	5000 -13500 XXX	13 1/2	14 1/2	1/2	0.550	14.500	14.498	13.500	13.500	13.502	14.500
	5000 -13500 -750 XXX			3/4	0.825						
	5000 -14000 XXX	14	15	1/2	0.550	15.000	14.998	14.000	14.000	14.002	15.000
	5000 -14000 -750 XXX			3/4	0.825						
	5000 -14500 XXX	14 1/2	15 1/2	1/2	0.550	15.500	15.498	14.500	14.500	14.502	15.500
	5000 -14500 -750 XXX			3/4	0.825						
	5000 -15000 XXX	15	16	1/2	0.550	16.000	15.998	15.000	15.000	15.002	16.000
	5000 -15000 -750 XXX			3/4	0.825						

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