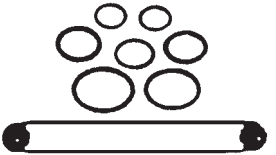







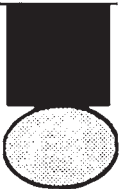



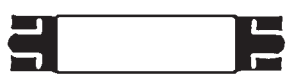
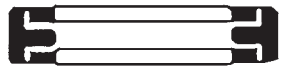
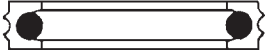

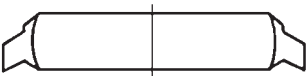
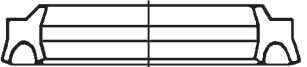
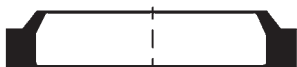
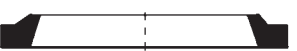














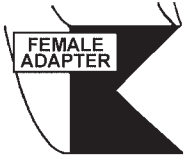
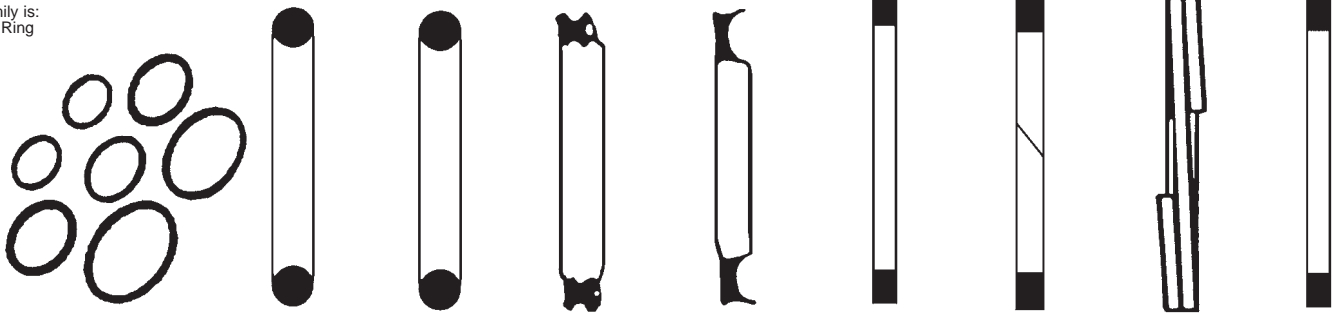


SEAL IDENTIFICATION CHART

<p>1 O-RING NITRILE 70 DUROMETER</p> 	<p>2 QUAD RING</p> 	<p>3 SQUARE BACK-UP RING</p> 	<p>4 CONTOURED BACK-UP</p> 	<p>5 BACK-UP RING</p> 	<p>6 TEFLON SCARF-CUT</p> 
<p>7 TEFLON SOLID</p> 	<p>8 TEFLON SPIRAL</p> 	<p>9 PISTON SEAL SQUARE</p> 	<p>10 PISTON SEAL RECTANGULAR</p> 	<p>11 PISTON SEAL CAST IRON</p> 	<p>12 CAT SPECIAL PISTON SEAL and LOADER</p> 
<p>13 PISTON T-SEAL</p> 	<p>14 ROD T-SEAL</p> 	<p>15 PSP SEAL CLAD</p> 	<p>16 J-WIPER METAL</p> 	<p>17 K-WIPER</p> 	<p>18 H-WIPER</p> 
<p>19 D-WIPER</p> 	<p>20 AN-WIPER</p> 	<p>21 BT-WIPER</p> 	<p>22 STANDARD U-RING</p> 	<p>23 DEEP U-RING</p> 	<p>24 TYPE-B U-RING</p> 
<p>25 TYPE-B HI-TEMP</p> 	<p>26 U-SEAL SYMMETRICAL</p> 	<p>27 U-SEAL ROD</p> 	<p>28 U-SEAL PISTON</p> 	<p>29 BUFFER RING</p> 	<p>30 WEAR RING</p> 
<p>31 THIN WEAR RING</p> 	<p>32 SOLID BEARING RING</p> 	<p>33 PISTON CUP</p> 	<p>34 VEE STACK</p> 	<p>35 MALE ADAPTER</p> 	<p>36 FEMALE ADAPTER</p> 

Family is:
I.D. Ring



<u>1/16 CROSECTION</u>			<u>BUNA RUBBER NITRILE O-RINGS & WASHERS</u>				<u>URETHANE WASHERS</u>		<u>TEFLON TFE WASHERS</u>										
SIZE	1/16 Width		O-Ring 70	O-Ring 90	Quad. Ring 70	Parbak Backup Washers	Solid Backup Washers	Split Backup Washers	Spiral Backup Washers	Solid Backup Washers									
I.D. Inches	O.D. Inches	PART NUMBER	Our Sequence Number	Duro. Per Each	Our Sequence Number	Duro. Per Each	Our Sequence Number	Duro. Per Each	Our Sequence Number	Duro. Per Each	Our Sequence Number	Duro. Per Each							
1/32*	3/32	001	848704	\$0.10		\$....		\$....		\$....		\$....							
3/64**	9/64	002	848705	0.10		....		....		....		....
5/64	13/64	004	848707	0.10		....		....		....		....
3/32	7/32	005	848708	0.10		....		....		....		....
1/8	1/4	006	848709	0.07		....	426612	0.23		850002	0.93	400806	0.65	400406	10.58		....	
5/32	9/32	007	848710	0.07		....		....		850003	0.93	400808	0.63	400408	6.93	400008	0.63
3/16	5/16	008	848711	0.07	CB3800	0.48	426616	0.24		850004	0.97	400810	0.61	400410	6.93	400010	0.72		
7/32	11/32	009	848712	0.07	849216	0.10	426618	0.25		850005	1.00	400812	0.58	400412	6.98		....	
1/4	3/8	010	848713	0.07	849218	0.10	426620	0.25		850006	1.00	400814	0.63	400414	6.98		....	
5/16	7/16	011	848714	0.08	849220	0.11	426622	0.26		850007	1.09	400816	0.64	400416	7.00		....	
3/8	1/2	012	848715	0.08	849222	0.12		....		850008	1.14	400818	0.65	400418	6.98	400018	0.81	
7/16	9/16	013	848716	0.10		....	426626	0.27		850009	1.14		....	400420	7.00		....	
1/2	5/8	014	848717	0.13	CB3805	0.53	426628	0.28		850010	1.26	299022	1.50	400822	0.67	400022	0.81	
9/16	11/16	015	848718	0.13	CB3810	0.68		....		850011	1.30	400824	0.74		....		....
5/8	3/4	016	848719	0.13	CB3815	0.68	426632	0.98		850012	1.30	299026	1.48	400826	0.77		400026	0.90	
11/16	13/16	017	848720	0.15	CB3820	0.73	426634	0.33		850013	1.30		....		....	400028	0.90
3/4	7/8	018	848721	0.23	CB3825	0.73	426636	0.34		850014	1.30	299030	1.52		400430	9.57	400030	0.98
13/16	15/16	019	848722	0.17	CB3830	1.02		....		850015	1.38		....		....	400031	1.07
7/8	1	020	848723	0.25	CB3835	1.02	426640	0.35		850016	1.47	299034	2.02	400834	0.90		400032	1.07	
15/16	1-1/16	021	848724	0.20	CB3840	1.21		....		850017	1.53		....		....	400034	1.25
1	1-1/8	022	848725	0.21	CB3845	1.21	426644	1.63		850018	1.58		....		....	400036	1.34
1-1/16	1-3/16	023	848726	0.23		....	426646	0.55		850019	1.58		....		....	400038	1.52
1-1/8	1-1/4	024	848727	0.32	CB3850	1.26	426648	0.55		850020	1.69		....		....	400040	1.79
1-3/16	1-5/16	025	848728	0.26		....	426650	0.56		850021	1.69		....		....		....
1-1/4	1-3/8	026	848729	0.40	CB3855	1.40	426652	0.57		850022	1.75	299046	1.83		....	400046	1.97	
1-5/16	1-7/16	027	848730	0.28	849252	0.38		....		850023	1.91	299048	1.83		....		....
1-3/8	1-1/2	028	848731	0.34	849254	0.46	426656	0.63		850024	1.95	299050	1.83		....	400050	2.15	
1-1/2	1-5/8	029	848732	0.39		....	426658	0.72		850025	2.16	299052	1.75		....		....
1-5/8	1-3/4	030	848733	0.46	CB3860	1.64		....		850026	2.21		....		....		....
1-3/4	1-7/8	031	848734	0.73	CB3865	2.13	426662	0.74		850027	2.27		....		....		....
1-7/8	2	032	848735	0.52	CB3870	2.27		....		850028	2.42		....		....		....
2	2-1/8	033	848736	0.81		....	426666	1.15		850029	2.47		....		....		....
2-1/8	2-1/4	034	848737	0.60		....	426668	1.15		850030	2.70		....		....		....
2-1/4	2-3/8	035	848738	0.63		....		....		850031	2.82		....		....		....
2-3/8	2-1/2	036	848739	0.70		....		....		850032	2.88		....		....		....
2-1/2	2-5/8	037	848740	0.77		....		....		850033	2.98		....		....		....
2-5/8	2-3/4	038	848741	0.80		....		....		850034	3.07		....		....		....
2-3/4	2-7/8	039	848742	0.87		....		....		850035	3.35		....		....		....
2-7/8	3	040	848743	0.91		....	426680	1.34		850036	4.84		....		....		....
3	3-1/8	041	848744	1.09		....		....		850037	5.40		....		....		....
3-1/4	3-3/8	042	848745	1.24		....		....		850038	6.14		....		....		....
3-1/2	3-5/8	043	848746	1.41		....		....		850039	6.70		....		....		....
3-3/4	3-7/8	044	848747	1.49		....	426688	2.43		850040	7.26		....		....		....
4	4-1/8	045	848748	1.54		....		....		850041	8.00		....		....		....
4-1/4	4-3/8	046	848749	1.61		....		....		850042	8.93		....		....		....
4-1/2	4-5/8	047	848750	1.73		....		....		850043	9.68		....		....		....
4-3/4	4-7/8	048	848751	1.81		....		....		850044	10.61		....		....		....
5	5-1/8	049	848752	1.99		....		....		850045	11.17		....		....		....
5-1/4	5-3/8	050	848753	2.07		....		....		850046	12.10		....		....		....

CALL FOR QUANTITY DISCOUNTS

FULL package ONLY on o-rings and backup washers See Page G9 for quantities



1/8 CROSSECTION

**BUNA RUBBER NITRILE
O-RINGS & WASHERS**

**URETHANE
WASHERS**

For Rod Size Inches	SIZE Inches	1/8 Width For Bore PART NO.	Our Sequence Number	O-Ring Duro. Per Each	Our Sequence Number	O-Ring 90 Duro. Per Each	Our Sequence Number	Quad Ring 70 Duro. Per Each	Our Sequence Number	Square Ring 70 Duro. Per Each	Our Sequence Number	Parbak Backup Washers Per Each	Our Sequence Number	Solid Backup Washers Per Each
3/16	7/16	201	848831	\$0.17		\$....		\$....		\$....	850124	\$1.02		\$....
1/4	1/2	202	848832	0.19		....		....		....	850125	1.02		....
5/16	9/16	203	848833	0.20		....		....		....	850126	1.04		....
3/8	5/8	204	848834	0.22		....	426862	0.38		....	850127	1.07		....
7/16	11/16	205	848835	0.23		....	426864	0.39		....	850128	1.12		....
1/2	3/4	206	848836	0.27		....	426866	0.38		....	850129	1.15		....
9/16	13/16	207	848837	0.28		....	426868	0.42		....	850130	1.20		....
5/8	7/8	208	848838	0.31	CB3960	1.21	426870	1.15		....	850131	1.23		....
11/16	15/16	209	848839	0.34		....	426872	0.45		....	850132	1.28		....
3/4	1	210	848840	0.35	849474	0.48	426874	0.53	883358	1.31	850133	1.34	299268	1.60
13/16	1-1/16	211	848841	0.32	849476	0.50	426876	0.74	883360	1.33	850134	1.36	299270	1.57
7/8	1-1/8	212	848842	0.40	849477	0.53	426878	0.75	883362	1.38	850135	1.38	299272	1.57
15/16	1-3/16	213	848843	0.43	CB3965	1.40	426880	0.65	883364	1.37	850136	1.40	299274	1.69
1	1-1/4	214	848844	0.42	849480	0.60	426882	0.78	883366	1.40	850137	1.41	299276	1.69
1-1/16	1-5/16	215	848845	0.48	CB3970	1.60	426884	0.67	883368	1.41	850138	1.43	299278	1.66
1-1/8	1-3/8	216	848846	0.48	CB3975	1.60	426886	0.69	883370	1.44	850139	1.45	299280	1.74
1-3/16	1-7/16	217	848847	0.55	849486	0.71	426888	0.72	883372	1.60	850140	1.49	299282	1.74
1-1/4	1-1/2	218	848848	0.47	849488	0.78	426890	1.01	883374	1.66	850141	1.53	299284	1.79
1-5/16	1-9/16	219	848849	0.67	849490	0.84	426892	1.03	883376	1.71	850142	1.56	299286	1.70
1-3/8	1-5/8	220	848850	0.64	849492	0.89	426894	1.11	883378	1.64	850143	1.60	299288	1.83
1-7/16	1-11/16	221	848851	0.68	CB3980	2.13	426896	1.07	883380	1.54	850144	1.67	299290	1.75
1-1/2	1-3/4	222	848852	0.47	849496	0.95	426898	1.28	883382	1.57	850145	1.77	299292	1.93
1-5/8	1-7/8	223	848853	0.76	CB3985	2.80	426900	1.30	883383	1.62	850146	1.86	299294	1.86
1-3/4	2	224	848854	0.66	849500	1.09	426902	1.40		....	850147	1.97	299296	2.09
1-7/8	2-1/8	225	848855	0.87	849502	1.17	426904	1.45		....	850148	2.07	299298	1.99
2	2-1/4	226	848856	0.90	849504	1.81	426906	1.49		....	850149	2.33	299300	2.08
2-1/8	2-3/8	227	848857	1.12	CB3990	3.53	426908	1.52	883385	1.98	850150	2.47	299302	2.08
2-1/4	2-1/2	228	848858	0.80	849508	1.48	426910	1.61		....	850151	2.61	299304	2.28
2-3/8	2-5/8	229	848859	1.18	CB3995	3.82	426912	1.70		....	850152	2.70	299306	2.26
2-1/2	2-3/4	230	848860	1.19	849512	1.69	426914	1.79		....	850153	2.84	299308	2.30
2-5/8	2-7/8	231	848861	1.36	CB4000	4.25		....		....	850154	2.98	299310	2.44
2-3/4	3	232	848862	0.96	849516	1.80	740545	5.84	883402	2.35	850155	3.26	299312	2.84
2-7/8	3-1/8	233	848863	1.59	849518	1.96		....		....	850156	3.39	299314	2.75
3	3-1/4	234	848864	1.15	CB4005	4.79	426922	2.77	883403	2.32	850157	3.63	299316	2.79
3-1/8	3-3/8	235	848865	1.50	CB4010	5.46	426924	2.82		....	850158	3.91	299318	2.88
3-1/4	3-1/2	236	848866	1.66	849522	2.34	426926	2.86	883404	2.42	850159	4.00	299320	3.07
3-3/8	3-5/8	237	848867	1.74	CB4015	5.85	426928	2.95		....	850160	4.09	299322	3.10
3-1/2	3-3/4	238	848868	1.76		....	426930	3.10		....	850161	4.19	299324	3.28
3-5/8	3-7/8	239	848869	1.92		....	426932	2.75		....	850162	4.56		....
3-3/4	4	240	848870	1.48	849530	2.62	426934	4.91		....	850163	4.62	299328	3.68
3-7/8	4-1/8	241	848871	2.06	849532	2.75	426936	5.37		....	850164	4.65	299330	3.54
4	4-1/4	242	848872	2.23	849534	3.06	426938	4.96		....	850165	4.84	299332	3.59
4-1/8	4-3/8	243	848873	2.35		....	426940	5.45		....	850166	5.21		....
4-1/4	4-1/2	244	848874	2.60	CB4020	7.69	426942	5.50		....	850167	5.49	299336	4.08
4-3/8	4-5/8	245	848875	2.70		....	426944	5.53		....	850168	5.68		....
4-1/2	4-3/4	246	848876	2.74		....	426946	5.60		....	850169	6.14		....
4-5/8	4-7/8	247	848877	2.85		....	426948	5.63		....	850170	6.51		....
4-3/4	5	248	848878	2.93	849546	5.83	426950	5.72		....	850171	6.70	299344	5.49
4-7/8	5-1/8	249	848879	3.33		....		....		....	850172	6.89		....
5	5-1/4	250	848880	3.32	849550	4.14		....		....	850173	7.63		....
5-1/8	5-3/8	251	848881	3.18		....		....		....	850174	8.00	299350	6.07
5-1/4	5-1/2	252	848882	3.26		....		....		....	850175	8.56		....
5-3/8	5-5/8	253	848883	3.66		....		....		....	850176	8.93		....
5-1/2	5-3/4	254	848884	3.42		....	426962	6.17		....	850177	9.31		....
5-5/8	5-7/8	255	848885	3.61		....		....		....	850178	9.49		....
5-3/4	6	256	848886	4.14	849562	5.05		....		....	850179	10.05		....
5-7/8	6-1/8	257	848887	3.92		....		....		....	850180	10.42		....
6	6-1/4	258	848888	4.24		....		....		....	850181	10.79		....
6-1/4	6-1/2	259	848889	5.25		....		....		....	850182	11.35		....
6-1/2	6-3/4	260	848890	4.56		....		....		....	850183	11.72		....
6-3/4	7	261	848891	5.61		....	426976	7.15		....	850184	12.28		....
7	7-1/4	262	848892	4.90		....		....		....	850185	13.40		....
7-1/4	7-1/2	263	848893	5.06		....		....		....	850186	14.14		....
7-1/2	7-3/4	264	848894	5.22		....		....		....	850187	16.19		....
7-3/4	8	265	848895	6.09		....		....		....	850188	16.56		....
8	8-1/4	266	848896	6.27		....		....		....	850189	17.31		....
8-1/4	8-1/2	267	848897	8.43		....		....		....	850190	17.87	299382	12.01
8-1/2	8-3/4	268	848898	6.61		....		....		....	850191	18.80		....
8-3/4	9	269	848899	6.79		....		....		....	850192	19.35		....
9	9-1/4	270	848900	6.96		....		....		....	850193	20.28		....
9-1/4	9-1/2	271	848901	7.18		....		....		....	850194	21.22		....
9-1/2	9-3/4	272	848902	7.37		....		....		....	850195	22.70		....
9-3/4	10	273	848903	7.64		....		....		....	850196	24.01		....
10	10-1/4	274	848904	8.13		....		....		....				....
10-1/2	10-3/4	275	848905	8.96		....		....		....				....

Family is:
I.D. Ring



O-RINGS AND BACKUP WASHERS

BUNA RUBBER NITRILE
O-RINGS & WASHERS



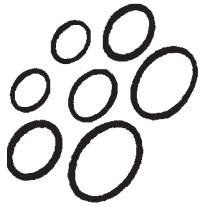
3/16 CROSSECTION

For Rod Size Inches	SIZE For Bore Size Inches	3/16 Width PART NO.	Our Sequence Number	O-Ring 70 Durometer Per Each	Our Sequence Number	O-Ring 90 Durometer Per Each	Quad Ring 70 Durometer Per Each	Our Sequence Number	Square Ring 70 Durometer Per Each	Our Sequence Number	Parbak Backup Washers Per Each	Our Sequence Number	Solid Backup Washers Per Each
7/16	13/16	309	848915	\$0.46		\$....		\$....	\$....	850208	\$1.21		\$....
1/2	7/8	310	848916	0.51						850209	1.26		
9/16	15/16	311	848917	0.56						850210	1.28		
5/8	1	312	848918	0.59						850211	1.30		
11/16	1-1/16	313	848919	0.65						850212	1.34		
3/4	1-1/8	314	848920	0.70						850213	1.38		
13/16	1-3/16	315	848921	0.73						850214	1.40		
7/8	1-1/4	316	848922	0.79			427038	1.01		850215	1.45		
15/16	1-5/16	317	848923	0.86						850216	1.53		
1	1-3/8	318	848924	0.91						850217	1.58		
1-1/16	1-7/16	319	848925	0.98						850218	1.67		
1-1/8	1-1/2	320	848926	1.05	CB4025	2.42				850219	1.77		
1-3/16	1-9/16	321	848927	1.11						850220	1.86		
1-1/4	1-5/8	322	848928	1.02	CB4030	2.85				850221	1.93		
1-5/16	1-11/16	323	848929	1.22						850222	2.01		
1-3/8	1-3/4	324	848930	1.16			427054	1.49		850223	2.08	299448	2.19
1-1/2	1-7/8	325	848931	1.06	849652	1.77	427056	1.63	883536	2.01	850224	299450	2.19
1-5/8	2	326	848932	1.20	849654	1.92	427058	1.65	883538	2.63	850225	299452	2.49
1-3/4	2-1/8	327	848933	1.26	849656	2.10			883540	2.27	850226	299454	2.59
1-7/8	2-1/4	328	848934	1.41	849658	2.21	427062	1.88	883541	2.35	850227	299456	2.69
2	2-3/8	329	848935	1.46	849660	2.49	427064	1.72	883543	2.42	850228	299458	2.82
2-1/8	2-1/2	330	848936	1.06	849662	2.26	427066	1.87	883545	2.73	850229	299460	2.87
2-1/4	2-5/8	331	848937	1.86	CB4035	4.74	427068	2.90	883546	2.80	850230	299462	2.73
2-3/8	2-3/4	332	848938	2.21	849666	2.96	427070	3.27	883547	2.89	850231	299464	2.92
2-1/2	2-7/8	333	848939	1.91	CB4040	5.61			883548	2.97	850232	299466	3.20
2-5/8	3	334	848940	1.07	849670	3.26	427074	3.39	883549	3.11	850233	299468	3.34
2-3/4	3-1/8	335	848941	2.52	CB4045	6.38			883552	3.21	850234	299470	3.67
2-7/8	3-1/4	336	848942	2.23	CB4050	6.67	427078	3.20	883554	3.27	850235	299472	3.49
3	3-3/8	337	848943	2.27	CB4055	6.91			883556	3.35	850236	299474	3.49
3-1/8	3-1/2	338	848944	1.31	849678	4.67	427082	3.56	883558	3.88	850237	299476	3.71
3-1/4	3-5/8	339	848945	2.99	CB4060	8.02			883560	3.68	850238	299478	3.76
3-3/8	3-3/4	340	848946	3.10	849682	4.15	427086	3.71	883562	3.74	850239		
3-1/2	3-7/8	341	848947	3.19	CB4065	8.65			883564	3.78	850240		
3-5/8	4	342	848948	1.37	849686	4.38					850241	299484	4.65
3-3/4	4-1/8	343	848949	3.48	CB4070	9.18			883568	1.43	850242		
3-7/8	4-1/4	344	848950	3.09	849690	4.80			883569	4.33	850243		
4	4-3/8	345	848951	3.69	CB4075	9.81			883572	4.41	850244	299490	4.65
4-1/8	4-1/2	346	848952	3.86	849694	5.16	427098	6.66			850245	299492	4.98
4-1/4	4-5/8	347	848953	3.94					883576	4.85	850246	299494	4.92
4-3/8	4-3/4	348	848954	3.47			427102	6.16	883577	3.08	850247		
4-1/2	4-7/8	349	848955	4.07					883580	4.88	850248	299498	5.55
4-5/8	5	350	848956	4.15							850249	299500	6.00
4-3/4	5-1/8	351	848957	4.24					883584	5.37	850250		
4-7/8	5-1/4	352	848958	4.32							850251		
5	5-3/8	353	848959	4.44							850252		
5-1/8	5-1/2	354	848960	4.57							850253		
5-1/4	5-5/8	355	848961	4.66							850254		
5-3/8	5-3/4	356	848962	4.92							850255		
5-1/2	5-7/8	357	848963	5.04							850256		
5-5/8	6	358	848964	5.51	CB4080	17.69					850257		
5-3/4	6-1/8	359	848965	5.33							850258		
5-7/8	6-1/4	360	848966	5.42							850259		
6	6-3/8	361	848967	5.70	849724	7.63					850260		
6-1/4	6-5/8	362	848968	5.98							850261		
6-1/2	6-7/8	363	848969	6.31	849728	8.45					850262		
6-3/4	7-1/8	364			849730	8.81					850263		
7	7-3/8	365									850264		
7-1/4	7-5/8	366	848972	7.31							850265		
7-1/2	7-7/8	367	848973	8.08							850266		
7-3/4	8-1/8	368	848974	8.27							850267		
8	8-3/8	369	848975	8.53							850268		
8-1/4	8-5/8	370	848976	8.70							850269		
8-1/2	8-7/8	371	848977	8.96							850270		
8-3/4	9-1/8	372	848978	9.31							850271		
9	9-3/8	373	848979	9.57							850272		
9-1/4	9-5/8	374	848980	9.99							850273		
9-1/2	9-7/8	375	848981	10.38							850274		
9-3/4	10-1/8	376	848982	10.90							850275		
10	10-3/8	377	848983	11.15							850276		
10-1/2	10-7/8	378	848984	14.24									

CALL FOR QUANTITY DISCOUNTS

FULL package ONLY on o-rings and backup washers See Page G9 for quantities

O-RINGS AND BACKUP WASHERS



NO BROKEN PACKAGES

1/4 CROSSECTION

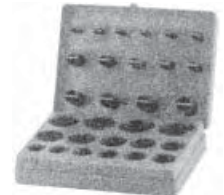
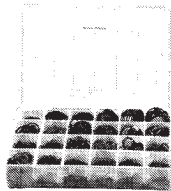
BUNA RUBBER NITRILE O-RINGS & WASHERS

Urethane Washers

TEFLON TFE SEALS

For Rod Size Inches	SIZE For Bore Size Inches	1/4 Width PART NO.	O-Ring 70 Duro. Our Sequence Number	O-Ring 90 Duro. Per Each	Quad Ring 70 Duro. Our Sequence Number	Square Ring 70 Duro. Per Each	Parbak Backup Washers Our Sequence Number	Solid Backup Washers Per Each	Spiral Backup Washers Our Sequence Number	Solid Backup Washers Per Each
4-1/2	5	425	849002 \$4.40	849794 \$11.29	427198 \$8.20	883648 \$7.86	850295 \$7.44	299556 \$7.56	400712 \$35.68	400256 \$15.02
4-5/8	5-1/8	426	849003 6.36	....	....	883650 8.48	850296 7.75	299558 7.38	....	....
4-3/4	5-1/4	427	849004 6.82	....	....	883652 8.14	850297 8.06	299560 7.52	....	....
4-7/8	5-3/8	428	849005 7.00	....	....	....	850298 8.22	....	....	....
5	5-1/2	429	849006 7.18	....	427206 8.62	883656 1.05	850299 8.37	299564 7.74	....	....
5-1/8	5-5/8	430	849007 7.35	....	....	883658 1.06	850300 8.99	....	....	....
5-1/4	5-3/4	431	849008 7.53	....	....	883660 8.71	850301 9.61	....	....	....
5-3/8	5-7/8	432	849009 7.57	....	....	....	850302 10.08	....	....	....
5-1/2	6	433	849010 4.92	849810 10.36	....	883666 9.03	850303 10.39	299572 9.12	....	....
5-5/8	6-1/8	434	849011 8.01	....	....	....	850304 10.70	....	....	....
5-3/4	6-1/4	435	849012 8.18	....	....	883668 10.95	850305 11.01	....	....	....
5-7/8	6-3/8	436	849013 8.35	....	....	....	850306 11.16	....	....	....
6	6-1/2	437	849014 7.78	....	....	883670 11.70	850307 11.48	....	....	....
6-1/4	6-3/4	438	849015 8.70	....	....	883674 10.33	850308 13.34	....	....	....
6-1/2	7	439	849016 9.05	....	....	....	850309 13.80	....	....	....
6-3/4	7-1/4	440	849017 9.73	....	....	....	850310 13.96	....	....	....
7	7-1/2	441	849018 9.92	....	....	....	850311 16.28	....	....	....
7-1/4	7-3/4	442	849019 10.55	....	....	....	850312 16.75	....	....	....
7-1/2	8	443	849020 10.42	....	....	....	850313 17.06	....	....	....
7-3/4	8-1/4	444	849021 11.62	....	427236 15.48	....	850314 17.52	....	....	....
8	8-1/2	445	849022 12.34	....	....	....	850315 17.68	....	....	....
8-1/2	9	446	849023 12.16	....	....	....	850316 17.99	....	....	....
9	9-1/2	447	849024 13.58	....	....	....	850317 18.30	....	....	....
9-1/2	10	448	849025 14.36	....	....	....	850318 19.07	....	....	....
10	10-1/2	449	849026 15.24	....	....	....	850319 22.95	....	....	....
10-1/2	11	450	849027 20.20	....	....	....	850320 36.44	....	....	....

CALL FOR QUANTITY DISCOUNTS



70 DUROMETER NITRILE O-RING

URETHANE BACKUP

70 DUROMETER NITRILE O-RING

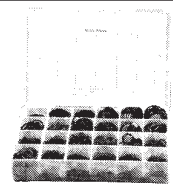
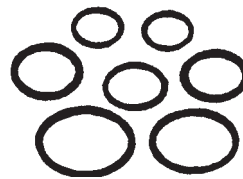
70 DUROMETER NITRILE O-RING

Part Number	Qty. Per Item		Qty. Per Item		Part Number	Qty. Per Item		Qty. Per Item	
006 to 012	25	MDYR7R	--	M23XUB	006 to 012	25	470	20	ORAK-382
110 to 112	25	330 pcs.	--	95 pcs.	110 to 112	25	470 pcs.	13	382 pcs.
113 to 116	10	M818 box	--	M818 box	113 to 116	10	1 K801 box &	13	Own box
210 to 213	10	Sequence	--	Sequence	210 to 216	10	1 T824 box	10	Sequence
214, 216, 218, 220	--	# Z92648	10	# Z92771	217 to 222	10	Sequence	10	# 850370
222, 224	--	\$43.19	10	\$164.04	325 to 327	5	#Z92644	7	\$14.89
325-327, 329	--		5		328 to 334	5	\$128.39	--	
330, 334, 338	--		5						

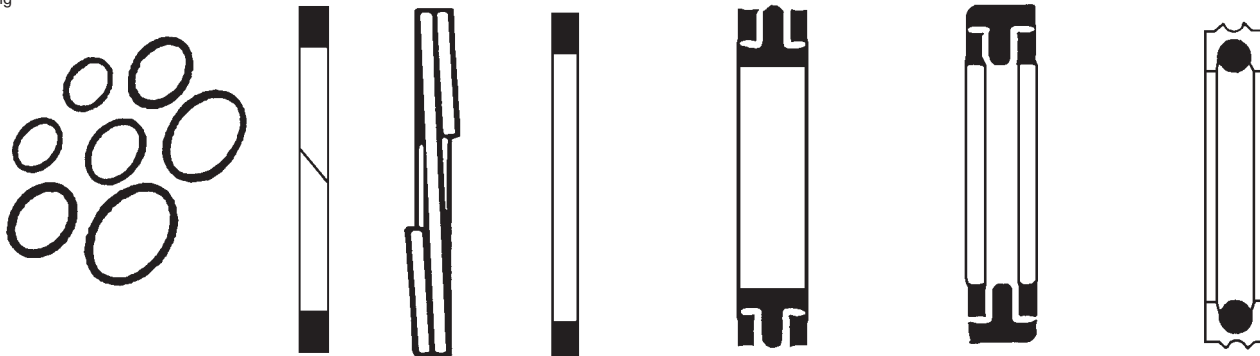
O-RING & QUAD RING ASSORTMENTS IN PLASTIC BOX

ALL ASSORTMENTS COME IN K801 BOX EXCEPT WHEN NOTED OTHERWISE.

Qty. Per Item	Mixed Cross Section	Qty. Per Item	3/32 Cross Section	Qty. Per Item	1/8 Cross Section	Qty. Per Item	3/16 Cross Section
70 Duro. O-Ring	25 006,007,008,009,010,011,012, 110,111,112,						
Nitrile	10 113,114,115,116,210,211,212,						
Rubber	10 213,214,215,216,217,218,219,						
	10 220,221,222,						
	5 325,326 327						
Our Sequence #	OK-311 Z92872 \$87.61						
Quad-Ring	DYQ7R		332Q7R		18Q7R		316Q7R
70 Duro. Nitrile	Qty. & Sizes listed above less 006, 007, 008, 009, 010, 012, 115	25	110, 112, 113, 114, 116	10	210,211,212,213,214,215,216 217, 218, 219, 220,,221, 222	5	325, 326, 329, 330 334, 338
Rubber					T812 Box		
Our Sequence #	Z92816 \$128.28		Z92818 \$42.89		Z92820 \$89.68		Z92822 \$77.01



Family is:
I.D. Ring



1/8 CROSSECTION			TEFLON TFE WASHERS			T SEALS Replaces				PSP URETHANE SEALS	
For Rod Size Inches	For Bore Size Inches	1/8 Width PART NO.	Split Backup Washers Per Each	Spiral Backup Washers Per Each	Solid Backup Washers Per Each	O-RING & NO BACKUP		Per Each	Replaces O-Ring Use with Backups for Wider Grooves.		
						PISTON TYPE Part Number	ROD TYPE Part Number		Part No.	Per Each	
7/16	11/16	205	\$....	\$....	\$....	-----	-----	\$....	-----	\$....	
1/2	3/4	206	....	....	....	TP007-206 814280	TR006-206 814426	2.55	PSP-206 809004	4.59
5/8	7/8	208	....	....	....	TP009-208 814284	TR008-208 814430	2.79	PSP-208 809008	4.75
11/16	13/16	209	....	....	....	TP010-209 814286	-----	2.89	-----	....
3/4	1	210	....	400532 7.20	....	TP011-210 814288	TR010-210 814434	2.96	PSP-210 809012	5.04
13/16	1-1/16	211	400914 1.41	400534 7.32	400132 1.25	TP012-211 814290	-----	3.03	-----	....
7/8	1-1/8	212	400916 1.49	400536 7.34	400134 1.34	TP013-212 814292	TR012-212 814438	3.03	PSP-212 809016	9.08	
15/16	1-3/16	213	400918 1.58	400538 7.43	400136 1.52	TP014-213 814294	-----	4.16	-----	....
1	1-1/4	214	400920 1.48	400540 7.43	....	TP015-214 814296	TR014-214 814442	4.48	PSP-214 809018	12.85
1-1/16	1-5/16	215	400922 1.70	400542 7.43	400140 1.70	TP016-215 814298	-----	4.55	-----	....
1-1/8	1-3/8	216	400924 1.79	400544 7.43	....	TP017-216 814300	TR016-216 814446	4.64	PSP-216 809024	9.08
1-3/16	1-7/16	217	400926 1.84	400546 9.00	400144 1.70	TP018-217 814302	TR017-217 814448	4.72	-----	....
1-1/4	1-1/2	218	400928 1.90	400548 7.54	....	TP019-218 814304	TR018-218 814450	4.79	PSP-218 809028	9.08
1-5/16	1-9/16	219	400930 2.07	400550 9.23	....	TP020-219 814306	TR019-219 814452	5.12	-----	....
1-3/8	1-5/8	220	400932 2.15	400552 9.45	....	TP021-220 814308	TR020-220 814454	5.20	PSP-220 809032	9.34
1-7/16	1-11/16	221	400934 2.25	400554 8.55	....	-----	TR021-221 814455	4.95	-----	....
1-1/2	1-3/4	222	400936 2.36	400556 8.89	400154 2.15	TP022-222 814310	TR022-222 814456	6.40	PSP-222 809034	10.28	
1-5/8	1-7/8	223	....	400558 9.34	400156 2.68	-----	-----	....	-----	....
1-3/4	2	224	400940 2.92	400560 10.80	....	-----	-----	....	-----	....
1-7/8	2-1/8	225	....	400562 10.80	400160 3.04	-----	-----	....	-----	....
2	2-1/4	226	400944 3.20	....	400162 3.04	-----	-----	....	-----	....
2-1/8	2-3/8	227	....	....	400164 3.04	-----	-----	....	-----	....
2-1/4	2-1/2	228	400948 4.24	400570 12.49	....	-----	-----	....	-----	....
2-3/8	2-5/8	229	....	....	400168 3.31	-----	-----	....	-----	....
2-1/2	2-3/4	230	400952 4.43	400574 15.42	400170 3.49	-----	-----	....	-----	....
2-5/8	2-7/8	231	....	....	400172 3.85	-----	-----	....	-----	....
2-3/4	3	232	....	400576 16.77	400174 4.02	-----	-----	....	-----	....
3	3-1/4	234	....	400580 18.23	400178 4.02	-----	-----	....	-----	....
3-1/4	3-1/2	236	....	400584 20.26	400182 21.19	-----	-----	....	-----	....
3-1/2	3-3/4	238	....	400588 21.61	400186 4.30	-----	-----	....	-----	....
3-5/8	3-7/8	239	....	....	400188 4.39	-----	-----	....	-----	....
3-3/4	4	240	....	400592 23.75	400190 6.80	-----	-----	....	-----	....
3-7/8	4-1/8	241	....	....	400192 5.28	-----	-----	....	-----	....
4	4-1/4	242	....	400596 25.10	400194 5.46	-----	-----	....	-----	....
4-1/4	4-1/2	244	....	400600 26.45	400198 6.80	-----	-----	....	-----	....
4-1/2	4-3/4	246	....	400604 32.41	400202 7.25	-----	-----	....	-----	....
4-3/4	5	248	400947 8.95	....	....	-----	-----	....	-----	....

70 DUROMETER O-RINGS FOR O-RING THREADS

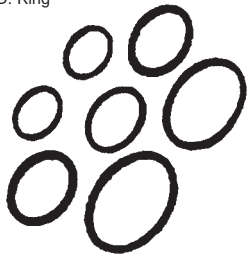
For Thread Size	I.D.	O.D.	Part Number	Our Sequence Number	O-Rings Per Each	For Thread Size	I.D.	O.D.	Part Number	Our Sequence Number	O-Rings Per Each
--	.185	.297	901	849053	\$0.09	1-1/16	.924	1.156	912	849064	\$0.38
5/16	.239	.367	902	CB3565	0.19	--	.986	1.218	913	849065	0.41
3/8	.301	.429	903	849055	0.10	1-3/16	1.047	1.279	914	CB3200	0.35
7/16	.351	.495	904	849056	0.10	1-5/16	1.171	1.403	916	849067	0.47
1/2	.414	.558	905	849057	0.11	1-1/2	1.355	1.587	918	849068	0.56
9/16	.468	.624	906	849058	0.13	1-5/8	1.475	1.711	920	849069	0.58
5/8	.530	.694	907	849059	0.13	1-7/8	1.720	1.956	924	849070	0.74
3/4	.644	.818	908	849060	0.19	2-1/4	2.090	2.326	928	849071	0.93
13/16	.706	.900	909	CB3570	0.34	2-1/2	2.337	2.573	932	849072	1.04
7/8	.755	.949	910	849062	0.24						

90 Durometer can be special ordered.

CALL FOR QUANTITY DISCOUNTS

FULL package ONLY on o-rings and backup washers See Page G9 for quantities

Family is:
I.D. Ring



3/16 CROSECTION			TEFLON TFE WASHERS			T SEALS Replaces				PSP URETHANE SEALS					
For Rod Size Inches	For Bore Size Inches	3/16 Width PART NO.	Our Sequence Number	Split Backup Washers Per Each	Spiral Backup Washers Our Sequence Number Per Each	Solid Backup Washers Our Sequence Number Per Each	PISTON TYPE Part Number	O-RING & NO BACKUP Our Sequence Number	ROD TYPE Part Number	Our Sequence Number	Per Each	Replaces O-Ring Use with Back-ups for Wider Grooves Part No.	Our Seq. Number	Per Each	
1-1/2	1-7/8	325	400957	\$4.15	400662	\$12.60	400206	\$2.86	TP023-325	814312	TR023-325	814460	\$6.56	-----	\$....
1-5/8	2	326	400958	4.60	400664	13.17	....	....	TP024-326	814314	TR024-326	814461	6.71	PSP-326	809040 10.60
1-3/4	2-1/8	327	400959	4.98	400666	13.73	....	....	-----	TR025-327	814462	6.00	....	PSP-327	809042 9.14
1-7/8	2-1/4	328	400960	5.42	400668	14.41	....	....	TP026-328	814318	TR026-328	814464	7.36	PSP-328	809044 12.22
2	2-3/8	329	400962	5.86	400670	14.97	400214	3.67	TP027-329	814320	TR027-329	814468	7.68	PSP-329	809046 13.09
2-1/8	2-1/2	330	400964	6.09	400672	16.21	....	....	TP028-330	814322	TR028-330	814470	8.16	PSP-330	809048 13.81
2-1/4	2-5/8	331	400966	6.40	400674	17.44	400218	4.48	TP029-331	814324	TR029-331	814471	8.80	-----	....
2-3/8	2-3/4	332	400968	6.51	400676	18.01	400220	4.56	TP030-332	814326	TR030-332	814472	9.12	PSP-332	809052 16.30
2-1/2	2-7/8	333	400970	6.72	400678	19.92	400222	4.65	TP031-333	814328	TR031-333	814476	9.43	-----	....
2-5/8	3	334	400972	6.93	400680	19.92	....	....	TP032-334	814330	TR032-334	814478	9.76	PSP-334	809056 17.09
2-3/4	3-1/8	335	....	....	....	....	....	....	TP033-335	814334	TR033-335	814480	10.24	PSP-335	809058 13.74
2-7/8	3-1/4	336	400976	7.38	....	....	....	....	TP034-336	814338	TR034-336	814482	11.02	PSP-336	809060 26.41
3	3-3/8	337	400978	5.82	....	....	400230	6.27	-----	TR035-337	814484	10.16	....	PSP-337	809062 30.62
3-1/8	3-1/2	338	400980	7.80	400688	20.03	....	....	TP035-338	814346	TR036-338	814483	12.00	PSP-338	809064 21.35
3-1/4	3-5/8	339	....	....	....	....	....	....	-----	TR037-339	814485	11.63	....	PSP-339	809066 32.95
3-3/8	3-3/4	340	400984	8.24	....	....	400236	6.98	TP037-340	814350	TR038-340	814486	13.91	PSP-340	809068 23.06
3-1/2	3-7/8	341	400986	8.47	....	....	400238	7.34	-----	TR039-341	814492	12.92	....	....	....
3-5/8	4	342	400988	8.89	400696	21.50	....	....	TP039-342	814362	-----	15.83	....	PSP-342	809072 25.34
3-3/4	4-1/8	343	....	....	400698	32.19	....	....	TP040-343	814356	-----	17.75	....	....	....
3-7/8	4-1/4	344	....	....	....	....	....	....	TP041-344	814358	TR042-344	814494	18.07	PSP-344	809076 28.89
4	4-3/8	345	400994	9.35	....	....	400246	8.32	-----	-----	-----	....	....	....	....
4-1/8	4-1/2	346	....	....	....	....	....	....	TP043-346	814352	-----	19.50	....	PSP-346	809080 42.56
4-3/8	4-3/4	348	401000	10.63	....	....	400252	9.31	TP045-348	814361	-----	27.01	....	PSP-348	809084 25.16
4-1/2	4-7/8	349	....	....	....	....	....	....	TP046-349	814363	TR047-349	814504	27.35	-----	....
4-5/8	5	350	....	....	....	....	....	....	TP047-350	814365	-----	26.70	....	PSP-350	809088 41.04

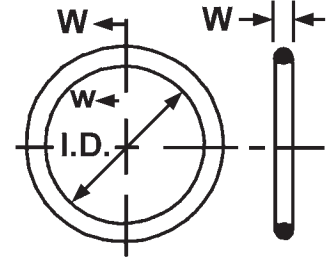
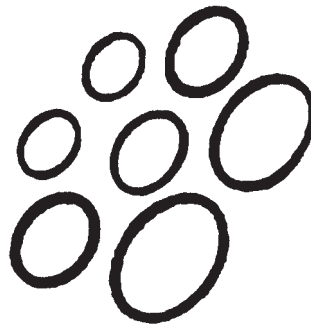
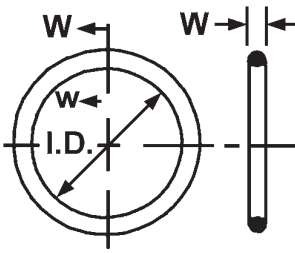
CALL FOR QUANTITY DISCOUNTS

MODULAR BACKUP SEALS

For Rod Size Inches	For Bore Size Inches	Part Number	Our Sequence Number	Per Each	For Rod Size Inches	For Bore Size Inches	Part Number	Our Sequence Number	Per Each
1	1-1/4	12501000-MB	812412	\$3.87	1-1/2	2	25001500-MB	812468	\$12.54
1-1/4	1-1/2	12501250-MB	812414	4.24	1-3/4	2-1/4	25001750-MB	812470	6.35
1-1/2	1-3/4	12501500-MB	812417	4.54	2	2-1/2	25002000-MB	812474	7.04
1	1-3/8	18701000-MB	812424	4.33	2-1/2	3	25002500-MB	812478	8.51
2	2-3/8	18702000-MB	812432	5.59	3	3-1/2	25003000-MB	812484	9.94
3	3-3/8	18703000-MB	812442	7.01	3-1/4	3-3/4	25003250-MB	812486	10.63
5/8	1-1/8	25000625-MB	812454	4.58	4	4-1/2	25004000-MB	812492	12.81
1	1-1/2	25001000-MB	812460	4.75	2-3/8	3	31202375-MB	812528	9.73
					5	6	50005000-MB	812700	35.32

O-RING AND BACKUP PACKAGE QUANTITIES

Part Number	Rubber O-Rings & Backup Quad Ring Square Ring	Urethane Backup	Teflon & Backup	T Seals PSP	Part Number	Rubber O-Rings & Backup Quad Ring Square Ring	Urethane Backup	Teflon & Backup	T Seals PSP
001 Thru 005	10	10	2	1	201 Thru 241	10	10	2	1
006 Thru 012	25	25	2	1	242 Thru 258	2	2	1	1
013 Thru 028	10	10	2	1	259 Thru 284	1	1	1	1
029 Thru 044	5	5	2	1	309 Thru 344	5	5	1	1
045 Thru 050	2	2	2	1	345 Thru 361	2	2	1	1
106 Thru 112	25	25	2	1	362 Thru 395	1	1	1	1
113 Thru 125	10	10	2	1	425 Thru 437	2	2	1	1
126 Thru 154	5	5	1	1	438 Thru 475	1	1	1	1
155 Thru 163	2	2	1	1	902 Thru 908	10	10	--	--
164 Thru 178	1	1	1	1	910 Thru 932	5	5	--	--



CALL FOR QUANTITY DISCOUNTS

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
1.00 mm Cross Section			
M3x5	40	429610	\$0.05
M4x6	40	429710	0.05
M5x7	40	429820	0.05
M6x8	40	428002	0.62
M7x9	40	428012	0.62
M12x14	30	430600	0.14
M13x15	30	430720	0.20
M14x16	30	430850	0.18
M15x17	30	430940	0.18
M16x18	25	431080	0.18
M18x20	25	431310	0.12
M20x22	25	431500	0.24

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
1.50 mm Cross Section			
M3x6	40	429620	\$0.18
M3.5x6.5	40	429680	0.18
M4x7	40	429720	0.24
M5x8	40	429840	0.05
M6x9	40	429930	0.12
M7x10	40	430020	0.08
M8x11	40	430130	0.30
M9x12	40	430280	0.12
M10x13	30	430390	0.12
M12x15	30	430610	0.12
M15x18	30	430950	0.12
M18x21	25	431320	0.16
M19x22	25	431420	0.13
M20x23	25	431520	0.20
M24x27	20	431940	0.46
M27x30	15	432240	0.28
M35x38	10	432830	0.36
M41x44	10	433340	0.44

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
2.00 mm Cross Section			
M4x8	40	429740	\$0.07
M5x9	40	429850	0.06
M6x10	40	429940	0.07
M7x11	40	430030	0.07
M8x12	40	430150	0.08
M9x13	40	430290	0.30
M10x14	30	430400	0.08
M13x17	30	430750	0.10
M14x18	30	430870	0.11
M15x19	30	430960	0.10
M17x21	25	431210	0.16
M18x22	25	431330	0.14
M20x24	25	431530	0.16
M21x25	20	431650	0.24
M22x26	20	431730	0.19
M28x32	15	432340	0.46
M30x34	15	432460	0.52
M36x40	10	432950	0.31
M42x46	10	433420	0.35
M48x52	10	433890	0.50
M70x74	5	435070	0.69
M75x79	5	435300	0.87
M80x84	3	435550	1.87
M120x124	3	436740	1.33

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
2.50 mm Cross Section			
M5x10	40	429860	\$0.30
M6x11	40	429950	0.12
M7x12	40	430040	0.09
M8x13	40	430170	0.12
M9x14	40	430300	0.12
M10x15	30	430420	0.11
M11x16	30	430520	0.15
M12x17	30	430640	0.13
M13x18	30	430760	0.11
M14x19	30	430880	0.15
M15x20	30	430970	0.14
M16x21	25	431120	0.15
M17x22	25	431220	0.18
M18x23	25	431340	0.31
M20x25	25	431540	0.18
M21x26	20	431660	0.28
M22x27	20	431740	0.24
M23x28	20	431850	0.25
M24x29	20	431960	0.25
M25x30	20	432050	0.27
M26x31	15	432180	0.24
M27x32	15	432260	0.27
M28x33	15	432350	0.38
M32x37	10	432640	0.42
M34x39	10	432790	0.36
M36x41	10	432960	0.42
M37x42	10	433050	0.40
M39x44	10	433190	0.46
M40x45	10	433270	0.78
M42x47	10	433430	0.44
M43x48	10	433500	0.46
M44x49	10	433560	0.44
M45x50	10	433660	0.52
M47x52	10	433830	0.50
M48x53	10	433900	0.87
M50x55	10	434030	0.63
M55x60	10	434320	0.76
M90x95	3	435910	2.18
M94x99	3	436000	1.23

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
3.00 mm Cross Section			
M5x11	40	429870	\$0.30
M6x12	40	429960	0.10
M9x15	40	430310	0.12
M10x16	30	430430	0.15
M12x18	30	430650	0.14
M13x19	30	430770	0.20
M14x20	30	430890	0.18
M16x22	25	431130	0.32
M18x24	25	431350	0.19
M19x25	25	431450	0.22
M20x26	25	431550	0.21
M21x27	20	431670	0.42
M22x28	20	431750	0.24
M23x29	20	431860	0.46
M24x30	20	431970	0.25
M25x31	20	432060	0.23
M26x32	15	432190	0.23
M27x33	15	432270	0.30
M28x34	15	432360	0.30
M29x35	15	432450	0.39
M30x36	15	432480	0.36

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
3.00 mm Cont'd			
M31x37	10	432570	\$0.40
M32x38	10	432650	0.32
M34x40	10	432800	0.38
M38x44	10	433130	0.82
M39x45	10	433200	0.55
M40x46	10	433280	0.51
M41x47	10	433370	0.50
M42x48	10	433440	0.90
M43x49	10	433510	0.48
M44x50	10	433570	0.97
M45x51	10	433670	0.97
M46x52	10	433750	0.54
M47x53	10	433840	0.54
M48x54	10	433910	0.54
M49x55	10	433960	0.54
M50x56	10	434040	0.77
M52x58	10	434150	1.15
M54x60	10	434240	0.79
M55x61	10	434330	1.15
M56x62	10	434400	0.62
M57x63	10	434450	0.74
M58x64	10	434520	0.83
M68x74	5	435010	0.83
M70x76	5	435080	0.99
M71x77	5	435130	0.91
M72x78	5	435160	1.81
M74x80	5	435260	1.14
M75x81	5	435320	1.16
M79x85	5	435490	1.97
M88x94	3	435830	2.26
M90x96	3	435920	2.28
M94x100	3	436010	1.29
M95x101	3	436060	2.30
M100x106	3	436260	2.46
M105x111	3	436380	1.25
M110x116	3	436470	2.56
M135x141	3	437120	2.98
M185x191	3	437920	3.41
M280x286	3	438400	0.76

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
3.50 mm Cross Section			
M8x15	40	430190	\$0.14
M9x16	40	430320	0.16
M10x17	30	430440	0.16
M13x20	30	430780	0.20
M25x32	20	432080	0.39
M29x36	15	432420	0.40
M30x37	15	432490	0.49
M31x38	10	432580	0.46
M33x40	10	432740	0.56
M45x52	10	433680	0.60
M47x54	10	433850	0.64
M50x57	10	434050	0.96
M58x65	10	434530	1.37
M63x70	5	434780	1.56
M75x82	5	435330	1.13

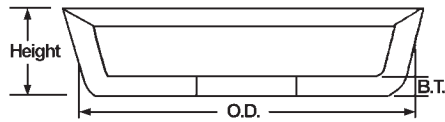
Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
4.00 mm Cross Section			
M4x12	40	429750	\$0.12
M8x16	40	430200	0.12
M9x17	40	430330	0.16
M12x20	30	430670	0.18
M15x23	30	431010	0.24
M17x25	25	431250	0.33
M19x27	25	431460	0.30
M20x28	25	431570	0.37
M22x30	20	431770	0.42
M23x31	20	431880	0.34
M24x32	20	431990	0.34
M25x33	20	428550	1.81
M30x38	15	432500	0.46
M34x42	10	432815	0.50
M35x43	10	432890	0.85
M38x46	10	433150	0.74
M40x48	10	433300	0.71
M42x50	10	433460	0.64
M43x51	10	433530	0.64
M44x52	10	433590	0.64
M50x58	10	434060	0.79
M51x59	10	434110	0.73
M52x60	10	434170	0.73
M60x68	10	434650	0.81
M70x78	5	435100	1.40
M72x80	5	435180	1.42
M75x83	5	435340	2.30
M76x84	5	435400	1.19
M78x86	5	435460	1.19
M90x98	3	435940	1.82
M95x103	3	436080	1.49
M100x108	3	436270	1.49
M112x120	3	436540	1.65
M120x128	3	436780	1.65
M125x133	3	436900	1.71

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
5.00 mm Cross Section			
M18x28	25	431380	\$0.36
M22x32	20	431780	0.44
M25x35	20	432100	0.44
M28x38	15	432390	0.56
M30x40	15	432510	0.56
M33x43	10	432750	0.68
M35x45	10	432900	1.19
M40x50	10	433320	1.47
M48x58	10	433930	0.87
M50x60	10	434070	1.15
M68x78	5	435030	1.29
M75x85	5	429200	7.17
M95x105	3	436090	3.30
M100x110	3	436280	1.85
M130x140	3	437010	4.43
M150x160	3	437370	4.29
M160x170	3	437530	5.98
M170x180	3	437720	3.32
M175x185	3	437810	6.38

Part Number I. D. x O. D.	Pkg. Qty.	Our Sequence Number	Per Each
6.00 mm Cross Section			
M25x37	20		

PISTON CUPS

All Piston Cups are Solid with a center pinhole, except as noted.



Molythane provides excellent abrasion resistance under extreme conditions-to 10,000 PSI or rough cylinder bore.

Thinwall piston cups are especially suitable where low friction is required at light pressures.

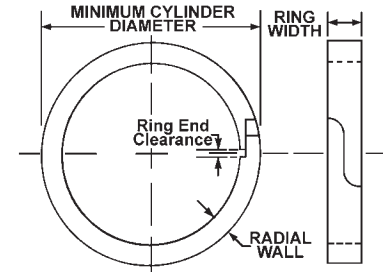
PARKER STANDARD MOLYTHANE PISTON CUPS

PARKER THINWALL MOLYTHANE PISTON CUPS

For Bore Size O.D. Inches	Part Number	Lip Height	Base Thick-ness	Our Sequence Number	Per Each	Part Number	Lip Height	Base Thick-ness	Our Sequence Number	Per Each
1/2	CS-500-250	1/4	3/32	812822	\$10.31	CT-500-375	3/8	3/32	812992	\$4.73
5/8	-----	---	---		....	CT-625-375	3/8	3/32	812996	4.81
3/4	CS-750-250	1/4	3/32	812824	10.31	CT-750-375	3/8	3/32	812998	4.93
7/8	CS-875-250	1/4	3/32	812828	10.31	-----	---	---		....
1	CS-1000-500	1/2	1/8	812832	8.44	CT-1000-437	7/16	3/32	813002	4.98
1-1/8	CS-1125-500	1/2	1/8	812838	9.50	CT-1125-437	7/16	3/32	813004	5.73
1-1/4	CS-1250-500	1/2	1/8	812840	12.82	CT-1250-437	7/16	3/32	813006	6.21
1-3/8	CS-1375-500	1/2	1/8	812844	13.63	CT-1375-437	7/16	3/32	813008	8.29
1-1/2	CS-1500-500	1/2	1/8	812850	15.26	CT-1500-437	7/16	3/32	813012	9.04
1-5/8	CS-1625-500	1/2	1/8	812854	16.50	CT-1625-437	7/16	3/32	813014	8.04
1-3/4	CS-1750-500	1/2	1/8	812856	17.72	CT-1750-437	7/16	3/32	813016	9.16
1-7/8	CS-1875-500	1/2	1/8	812858	19.05	CT-1875-437	7/16	3/32	813020	9.28
2	CS-2000-500	1/2	1/8	812862	20.85	CT-2000-437	7/16	1/8	813026	12.49
2-1/8	CS-2125-500	1/2	1/8	812864	21.54	CT-2125-500	1/2	1/8	813030	9.32
2-1/4	CS-2250-500	1/2	1/8	812866	22.82	CT-2250-500	1/2	1/8	813032	11.12
2-3/8	CS-2375-500	1/2	1/8	812870	24.78	CT-2375-500	1/2	1/8	813036	11.79
2-1/2	CS-2500-500	1/2	1/8	812872	26.08	CT-2500-500	1/2	1/8	813038	15.08
2-5/8	CS-2625-500	1/2	1/8	812876	21.48	CT-2625-500	1/2	1/8	813040	12.73
2-3/4	CS-2750-625	5/8	3/16	812878	27.91	CT-2750-500	1/2	1/8	813044	16.57
2-7/8	CS-2875-625	5/8	3/16	812880	23.85	CT-2875-500	1/2	1/8	813046	17.72
3	CS-3000-625	5/8	3/16	812882	31.35	CT-3000-625	5/8	1/8	813050	19.59
3-1/4	CS-3250-625	5/8	3/16	812886	31.84	CT-3250-625	5/8	1/8	813052	15.96
3-3/8	CS-3375-625	5/8	3/16	812888	26.86	CT-3375-625	5/8	1/8	813054	16.59
3-1/2	CS-3500-625	5/8	3/16	812890	36.35	CT-3500-625	5/8	1/8	813056	18.17
3-3/4	CS-3750-625	5/8	3/16	812892	37.99	CT-3750-625	5/8	1/8	813058	18.43
4	CS-4000-625	5/8	3/16	812896	41.51	CT-4000-625	5/8	1/8	813062	25.55
4-1/4	CS-4250-625	5/8	3/16	812902	35.02	-----	---	---		....
4-1/2	CS-4500-625	5/8	3/16	812906	45.28	CT-4500-625	5/8	1/8	813068	25.58
4-3/4	CS-4750-750	3/4	3/16	812908	47.72	-----	---	---		....
5	CS-5000-750	3/4	3/16	812912	50.29	CT-5000-750	3/4	1/8	813072	27.08
5-1/4	CS-5250-750	3/4	3/16	812914	44.56	CT-5250-750	3/4	1/8	813074	30.87
5-1/2	CS-5500-750	3/4	3/16	812916	55.21	CT-5500-750	3/4	1/8	813076	34.73
5-3/4	CS-5750-750	3/4	3/16	812918	47.05	-----	---	---		....
6	CS-6000-750	3/4	3/16	812920	60.33	CT-6000-750	3/4	1/8	813080	42.26
6-1/2	CS-6500-750	3/4	3/16	812922	52.55	-----	---	---		....
7	CS-7000-750	3/4	3/16	812928	69.08	-----	---	---		....
7-1/2	CS-7500-1000	1	3/16	812930	60.23	-----	---	---		....
8	CS-8000-1000	1	3/16	812936	81.30	-----	---	---		....
10	CS-10000-1000	1	3/16	812939	80.55	-----	---	---		....

Package quantity 1

CAST IRON PISTON RINGS FOR HYDRAULIC CYLINDER

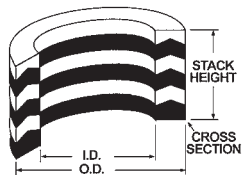


Part Number is: CIPR - Bore Size - Width
STEP CUT Package of 2

Part Number	Radial Wall Thickness +.0075	End Gap +-.005	Our Sequence Number	Per Each
CIPR-1500-123	.0595	.010	CB0010	\$11.52
CIPR-1750-123	.0675	.010	CB0020	10.84
CIPR-2000-125	.0675	.010	CB0030	12.33
CIPR-2000-093	.0675	.010	CB0040	17.61
CIPR-2250-186	.0775	.010	CB0050	22.65
CIPR-2500-125	.08295	.010	CB0060	11.60
CIPR-2500-186	.08295	.010	CB0070	12.00
CIPR-2500-248	.1105	.010	CB0080	12.13
CIPR-2750-186	.0985	.010	CB0100	11.12
CIPR-3000-248	.1025	.010	CB0130	10.98
CIPR-3250-123	.1105	.010	CB0140	9.75
CIPR-3250-186	.1105	.010	CB0150	12.08
CIPR-3500-124	.1165	.010	CB0160	23.30
CIPR-3500-248	.1105	.010	CB0170	11.48
CIPR-3500-186	.1165	.010	CB0180	12.57
CIPR-3625-186	.1195	.010	CB0190	23.08
CIPR-3750-248	.1225	.010	CB0200	9.87
CIPR-3750-186	.1225	.010	CB0210	11.62
CIPR-4000-248	.1475	.010	CB0220	14.42
CIPR-4000-186	.1345	.010	CB0230	13.69
CIPR-4250-248	.1425	.010	CB0240	15.32
CIPR-4500-310	.1525	.010	CB0250	12.36
CIPR-4500-248	.1525	.010	CB0260	15.32
CIPR-4500-186	.1525	.010	CB0270	14.42
CIPR-5000-186	.1675	.010	CB0280	16.33
CIPR-5000-248	.1475	.015	CB0290	19.54
CIPR-5000-310	.1675	.015	CB0310	16.92
CIPR-5000-372	.1675	.015	CB0320	20.20
CIPR-5250-248	.1735	.015	CB0330	19.89
CIPR-5250-312	.1735	.015	CB0340	21.31
CIPR-5500-310	.1825	.015	CB0350	16.10
CIPR-5500-186	.1935	.015	CB0360	25.35
CIPR-5500-248	.1825	.015	CB0370	28.08
CIPR-5540-185	.1875	.015	CB3254	34.58
CIPR-6000-248	.1500	.010	CB0390	31.94
CIPR-6000-311	.1895	.015	CB0400	34.39
CIPR-6000-372	.1895	.015	CB0410	44.40
CIPR-6250-248	.2095	.015	CB0222	35.33
CIPR-6500-248	.2185	.015	CB0430	35.33
CIPR-6750-248	.1825	.015	CB0450	36.57
CIPR-7000-248	.1500	.015	CB0460	32.55
CIPR-7000-311	.2355	.015	CB0470	44.23
CIPR-7250-248	.1675	.010	CB0490	39.60
CIPR-7500-310	.2175	.015	CB0500	27.71
CIPR-8000-310	.2175	.015	CB0540	59.61
CIPR-8000-434	.2625	.015	CB3258	97.45
CIPR-8000-375	.2675	.015	CB0570	40.89
CIPR-8125-434	.2675	.015	CB3262	105.31
CIPR-8500-310	.2175	.015	CB0590	51.95
CIPR-9000-373	.3015	.015	CB0610	42.33
CIPR-9000-310	.3015	.015	CB3266	101.36
CIPR-9250-248	.1675	.010	CB3268	110.62
CIPR-9500-310	.3125	.015	CB0640	74.49
CIPR-9500-248	.3245	.015	CB0650	67.31

Rings Disc: 2 pkgs. 5%, 5pkgs. 15%, 10 pkgs. 25%
25 pkgs. 30%, 50 pkgs. 35%

FABRIC REINFORCED, HYTREL, & MOLYTHANE CHEVRON VEE RINGS & ADAPTERS



NOTE: Exact Measurements of Vees will be slightly different Rod & Bore Sizes See Drawings on Following Page



STACK HEIGHT OF VEE SET

STACK HEIGHT OF PARTS

Cross-Section	3 Vees plus Male & Female	4 Vees plus Male & Female	5 Vees plus Male & Female	6 Vees plus Male & Female	7 Vees plus Male & Female	Female Adapter	Male Adapter	Each Vee	Male plus Female Adapters Only
PRECISION NITRILE & FABRIC & PRECISION HYTREL & PRECISION HARD NYLON ADAPTERS									
1/4	.718	.843	.968	1.093	1.218	233	120	.125	.353
5/16	.843	1.000	1.156	1.312	1.468	259	120	.156	.379
3/8	.968	1.156	1.343	1.531	1.718	287	120	.187	.407
1/2	1.218	1.468	1.718	1.968	2.218	341	120	.250	.461
PARKER MOLYTHANE									
1/4	.625	.750	.875	1.000	1.250	--	--	.125	.250
5/16	.783	.939	1.100	1.252	1.409	--	--	.157	.313
3/8	.938	1.125	1.313	1.500	1.688	--	--	.188	.375
1/2	1.250	1.500	1.750	2.000	2.250	--	--	.250	.500
5/8	1.690	2.025	2.362	2.700	3.038	--	--	.338	.675
3/4	1.875	2.250	2.625	3.000	3.375	--	--	.375	.750

NOTE: Stack heights include male & female adapters plus Vee Rings. Vee Rings and Adapters can be replaced with u-ring of corresponding dimensions.

PARKER Molythane Vee Suffix VP Male Adapt. Suffix VM Female Adapt. Suffix VF

PRECISION Fabric & Rubber Vee Suffix VDR Nylon Male Adapt. Suffix MDR Female Adapt. Suffix FDR

PRECISION Hytrel Vee Suffix VHY

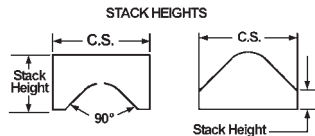
PRECISION Hard Nylon Vee Suffix VNY Male Adapt. Suffix MNY Female Adapt. Suffix FNY

For Rod Size Inches	For Bore Size Inches	Cross Section	Vee Ring Number	Our Sequence Number	Per Each	Vee Ring Number	Our Sequence Number	Per Each	Vee Ring Number	Our Sequence Number	Per Each	Vee Ring Number	Our Sequence Number	Per Each
1/2	7/8	3/16	-----	-----	\$....	18700500-VDR	855314	\$1.25	-----	-----	\$....	-----	-----	\$....
1/2	1	1/4	25000500-VP	817790	4.99	25000500-VDR	855479	1.25	-----	-----	-----	-----	-----	-----
5/8	1	3/16	-----	-----	....	18700625-VDR	855324	1.30	-----	-----	....	-----	-----	....
5/8	1-1/8	1/4	25000625-VP	817801	4.99	25000625-VDR	855488	1.31	-----	-----	....	-----	-----	....
3/4	1-1/8	3/16	-----	-----	....	18700750-VEE	CB3021	34.28	-----	-----	....	-----	-----	....
3/4	1-1/4	1/4	25000750-VP	817808	6.26	25000750-VDR	855508	1.30	-----	-----	....	-----	-----	....
3/4	1-3/8	5/16	-----	-----	....	31200750-VDR	855904	2.09	-----	-----	....	-----	-----	....
3/4	1-1/2	3/8	-----	-----	....	37500750-VDR	856304	1.62	-----	-----	....	-----	-----	....
13/16	1-5/16	1/4	-----	-----	....	25000812-VDR	855513	4.06	25000812-VHY	858945	1.01	-----	-----	....
7/8	1-1/4	3/16	-----	-----	....	18700875-VDR	855344	1.35	-----	-----	....	-----	-----	....
7/8	1-3/8	1/4	-----	-----	....	25000875-VEE	CB3052	21.48	-----	-----	....	-----	-----	....
7/8	1-1/2	5/16	31200875-VP	817906	6.13	31200875-VDR	855914	1.68	-----	-----	....	-----	-----	....
1	1-3/8	3/16	-----	-----	....	18701000-VDR	855354	1.40	18701000-VHY	858840	1.09	-----	-----	....
1	1-1/2	1/4	25001000-VP	817814	5.29	25001000-VDR	855528	1.05	25001000-VHY	858960	1.05	-----	-----	....
1	1-5/8	5/16	-----	-----	....	31201000-VEE	CB305395	19.43	-----	-----	....	-----	-----	....
1	1-3/4	3/8	-----	-----	....	37501000-VEE	CB3062	25.38	-----	-----	....	-----	-----	....
1-1/8	1-1/2	3/16	-----	-----	....	18701125-VDR	855364	2.59	-----	-----	....	-----	-----	....
1-1/8	1-5/8	1/4	-----	-----	....	25001125-VDR	855538	1.06	25001125-VHY	858970	1.06	-----	-----	....
1-1/8	1-3/4	5/16	31201125-VP	817918	6.25	31201125-VDR	855934	1.82	-----	-----	....	-----	-----	....
1-1/4	1-3/4	1/4	25001250-VP	817820	6.79	25001250-VDR	855548	1.26	25001250-VHY	858980	1.16	25001250-VNY	864130	1.20
1-1/4	1-7/8	5/16	-----	-----	....	31201250-VDR	855944	2.34	-----	-----	....	-----	-----	....
1-1/4	2	3/8	37501250-VP	818062	8.96	37501250-VDR	856334	2.21	-----	-----	....	-----	-----	....
1-3/8	1-3/4	3/16	-----	-----	....	18701375-VEE	CB3023	27.01	-----	-----	....	-----	-----	....
1-3/8	1-7/8	1/4	-----	-----	....	25001375-VDR	855552	1.26	25001375-VHY	858990	1.20	-----	-----	....
1-3/8	2	5/16	31201375-VP	817924	8.51	31201375-VDR	855954	1.95	-----	-----	....	-----	-----	....
1-3/8	2-1/8	3/8	37501375-VP	818068	9.52	-----	-----	....	-----	-----	....	-----	-----	....
1-1/2	1-7/8	3/16	-----	-----	....	18701500-VEE	CB3025	35.55	-----	-----	....	-----	-----	....
1-1/2	2	1/4	25001500-VP	817826	8.11	25001500-VDR	855558	1.30	25001500-VHY	859000	1.30	25001500-VNY	864150	1.21
1-1/2	2-1/8	5/16	31201500-VP	817936	9.31	31201500-VDR	855964	2.05	-----	-----	....	-----	-----	....
1-1/2	2-1/4	3/8	-----	-----	....	37501500-VDR	856354	2.36	37501500-VHY	859580	1.91	-----	-----	....
1-1/2	2-1/2	1/2	-----	-----	....	50001500-VDR	856754	3.54	50001500-VHY	859850	3.34	-----	-----	....
1-5/8	2-1/8	1/4	-----	-----	....	25001625-VDR	863928	2.47	-----	-----	....	-----	-----	....
1-5/8	2-1/4	5/16	-----	-----	....	31201625-VDR	855974	2.09	31201625-VHY	864034	2.42	-----	-----	....
1-5/8	2-3/8	3/8	37501625-VP	818085	10.87	37501625-VDR	863994	3.56	-----	-----	....	-----	-----	....
1-3/4	2-1/8	3/16	-----	-----	....	18701750-VEE	CB3030	58.64	-----	-----	....	-----	-----	....
1-3/4	2-1/4	1/4	25001750-VP	817832	8.65	25001750-VDR	855578	1.44	25001750-VHY	859020	1.38	-----	-----	....
1-3/4	2-3/8	5/16	31201750-VP	817942	10.12	31201750-VDR	855986	2.05	-----	-----	....	-----	-----	....
1-3/4	2-1/2	3/8	37501750-VP	818092	11.55	37501750-VDR	856374	2.56	37501750-VHY	859600	2.43	-----	-----	....
1-3/4	2-3/4	1/2	-----	-----	....	50001750-VDR	856764	3.81	-----	-----	....	-----	-----	....
1-7/8	2-3/8	1/4	25001875-VP	817837	7.39	25001875-VDR	855588	1.42	-----	-----	....	-----	-----	....
1-7/8	2-1/2	5/16	-----	-----	....	31201875-VDR	855996	2.19	-----	-----	....	-----	-----	....
1-7/8	2-5/8	3/8	-----	-----	....	37501875-VDR	856378	2.03	-----	-----	....	-----	-----	....
2	2-3/8	3/16	-----	-----	....	18702000-VEE	CB3050	40.10	-----	-----	....	-----	-----	....
2	2-1/2	1/4	25002000-VP	817846	9.90	25002000-VDR	855598	1.54	25002000-VHY	859040	1.45	25002000-VNY	864190	1.42
2	2-5/8	5/16	31202000-VP	817960	9.39	31202000-VDR	856006	2.23	31202000-VHY	859370	2.10	-----	-----	....
2	2-3/4	3/8	37502000-VP	818104	13.09	37502000-VDR	856384	2.55	37502000-VHY	859620	2.55	-----	-----	....
2	3	1/2	50002000-VP	818194	18.42	50002000-VDR	856774	4.47	-----	-----	....	-----	-----	....
2-1/8	2-5/8	1/4	-----	-----	....	25002125-VDR	863940	2.91	-----	-----	....	-----	-----	....
2-1/8	2-3/4	5/16	31202125-VP	817966	8.59	31202125-VEE	CB3054	33.99	-----	-----	....	-----	-----	....
2-1/4	2-3/4	1/4	-----	-----	....	25002250-VDR	855618	1.58	25002250-VHY	859060	1.58	-----	-----	....
2-1/4	2-7/8	5/16	-----	-----	....	31202250-VEE	CB3056	34.89	31202250-VHY	864040	2.95	-----	-----	....
2-1/4	3	3/8	37502250-VP	818110	14.23	37502250-VDR	856394	3.12	37502250-VHY	864046	3.12	37502250-VNY	864430	2.08
2-1/4	3-1/4	1/2	50002250-VP	818199	20.20	50002250-VDR	856784	13.68	-----	-----	....	-----	-----	....
2-3/8	2-7/8	1/4	-----	-----	....	25002375-VDR	855628	1.27	-----	-----	....	-----	-----	....
2-3/8	3	5/16	-----	-----	....	31202375-VEE	CB3055	42.27	-----	-----	....	-----	-----	....
2-3/8	3-1/8	3/8	37502375-VP	818116	14.72	37502375-VDR	856404	2.42	-----	-----	-----	-----

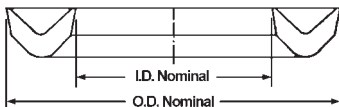
XXXX-VEE is a complete vee set there are no quantity discounts

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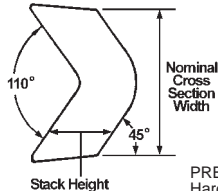
NOTE: Exact Measurements of Vees will be slightly different Rod & Bore Sizes



PARKER
Molythane
Vee Suffix VP
Male Adapt. Suffix VM
Female Adapt. Suffix VF



PRECISION
Fabric & Rubber
Vee Suffix VDR
Nylon
Male Adapt. Suffix MDR
Female Adapt. Suffix FDR



PRECISION
Hytrel
Vee Suffix VHY

PRECISION
Hard Nylon
Vee Suffix VNY
Male Adapt. Suffix MNY
Female Adapt. Suffix FNY

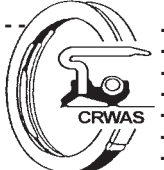
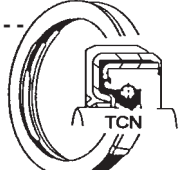
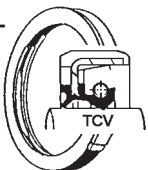
For Rod Size Inches	For Bore Size Inches	Cross Section	Vee Ring Number	Our Sequence Number	Per Each	Vee Ring Number	Our Sequence Number	Per Each	Vee Ring Number	Our Sequence Number	Per Each	Vee Ring Number	Our Sequence Number	Per Each
2-1/2	2-7/8	3/16	-----	-----	\$....	18702500-VDR	863910	\$2.73	-----	-----	\$....	-----	-----	\$....
2-1/2	3	1/4	25002500-VP	817852	11.93	25002500-VDR	855642	1.68	25002500-VHY	859080	1.60	25002500-VNY	864210	1.55
2-1/2	3-1/8	5/16	31202500-VP	817972	11.27	31202500-VDR	856046	2.36	31202500-VHY	859410	2.36	31202500-VNY	864380	1.95
2-1/2	3-1/4	3/8	37502500-VP	818122	15.37	37502500-VDR	856414	3.44	37502500-VHY	859650	3.27	-----	-----	....
2-1/2	3-1/2	1/2	50002500-VP	818212	22.11	50002500-VDR	856794	4.86	-----	-----	....	-----	-----	....
2-5/8	3-1/8	1/4	25002625-VP	817857	10.65	25002625-VEE	CB3053	23.94	-----	-----	....	-----	-----	....
2-5/8	3-1/4	5/16	-----	-----	....	31202625-VDR	856056	1.97	-----	-----	....	-----	-----	....
2-5/8	3-3/8	3/8	37502625-VP	818128	16.04	37502625-VDR	856424	12.99	-----	-----	....	-----	-----	....
2-3/4	3-1/4	1/4	-----	-----	....	25002750-VDR	855660	1.72	25002750-VHY	859100	1.67	25002750-VNY	864220	1.58
2-3/4	3-3/8	5/16	-----	-----	....	31202750-VDR	856066	2.50	31202750-VHY	859430	2.50	-----	-----	....
2-3/4	3-1/2	3/8	37502750-VP	818134	20.57	37502750-VDR	856434	3.77	37502750-VHY	859670	3.63	37502750-VNY	864450	2.22
2-3/4	3-3/4	1/2	50002750-VP	818217	23.90	50002750-VDR	856804	15.08	-----	-----	....	-----	-----	....
2-7/8	3-3/8	1/4	-----	-----	....	25002875-VDR	855665	1.42	-----	-----	....	-----	-----	....
2-7/8	3-1/2	5/16	-----	-----	....	31202875-VDR	863972	4.27	-----	-----	....	-----	-----	....
2-7/8	3-5/8	3/8	37502875-VP	818140	17.58	37502875-VDR	864000	4.86	-----	-----	....	-----	-----	....
3	3-1/2	1/4	25003000-VP	817864	13.43	25003000-VDR	855670	1.82	25003000-VHY	859110	1.74	25003000-VNY	864230	1.66
3	3-5/8	5/16	31203000-VP	817984	13.24	31203000-VEE	CB3057	31.79	-----	-----	....	-----	-----	....
3	3-3/4	3/8	37503000-VP	818146	18.42	37503000-VDR	856454	3.96	37503000-VHY	859690	3.96	-----	-----	....
3	4	1/2	50003000-VP	818230	25.72	50003000-VDR	856814	5.55	50003000-VHY	860000	5.55	-----	-----	....
3-1/8	3-1/2	3/16	-----	-----	....	18703125-VDR	855448	2.23	18703125-VHY	858905	1.74	-----	-----	....
3-1/4	3-5/8	3/16	-----	-----	....	18703250-VDR	855456	2.56	-----	-----	....	-----	-----	....
3-1/4	3-3/4	1/4	-----	-----	....	25003250-VDR	856680	1.82	25003250-VHY	859120	1.82	-----	-----	....
3-1/4	4	3/8	37503250-VP	818152	24.40	37503250-VDR	856464	4.47	-----	-----	....	-----	-----	....
3-1/4	4-1/4	1/2	-----	-----	....	50003250-VDR	856824	5.88	-----	-----	....	-----	-----	....
3-3/8	3-7/8	1/4	25003375-VP	817869	12.23	25003375-VDR	855690	1.92	-----	-----	....	-----	-----	....
3-3/8	4	5/16	-----	-----	....	31203375-VEE	CB3058	33.35	-----	-----	....	-----	-----	....
3-1/2	4	1/4	25003500-VP	817876	15.44	25003500-VDR	855700	2.09	25003500-VHY	859140	2.09	25003500-VNY	864250	1.78
3-1/2	4-1/8	5/16	31203500-VP	817996	15.18	31203500-VDR	856106	3.20	-----	-----	....	-----	-----	....
3-1/2	4-1/4	3/8	37503500-VP	818157	25.59	37503500-VDR	856474	4.93	-----	-----	....	-----	-----	....
3-1/2	4-1/2	1/2	50003500-VP	818235	29.17	50003500-VDR	856834	6.21	-----	-----	....	-----	-----	....
3-5/8	4-3/8	3/8	-----	-----	....	37503625-VDR	856484	3.64	-----	-----	....	-----	-----	....
3-3/4	4-1/4	1/4	25003750-VP	817880	13.40	25003750-VDR	855710	2.21	-----	-----	....	25003750-VNY	864260	2.05
3-3/4	4-3/8	5/16	31203750-VP	818002	16.20	31203750-VEE	CB3059	44.72	31203750-VHY	859490	3.12	-----	-----	....
3-3/4	4-1/2	3/8	-----	-----	....	37503750-VDR	856494	5.21	37503750-VHY	859730	5.21	37503750-VNY	864480	2.97
3-7/8	4-3/8	1/4	25003875-VP	817885	13.70	25003875-VDR	855720	2.25	-----	-----	....	-----	-----	....
4	4-1/2	1/4	-----	-----	....	25004000-VDR	855730	2.33	25004000-VHY	859170	2.33	25004000-VNY	864270	2.16
4	4-3/4	3/8	37504000-VP	818170	23.53	37504000-VDR	856504	5.30	-----	-----	....	-----	-----	....
4	5	1/2	50004000-VP	818260	33.48	50004000-VDR	856854	7.03	50004000-VHY	860040	5.52	-----	-----	....
4-1/4	4-3/4	1/4	-----	-----	....	25004250-VDR	855734	2.43	25004250-VHY	859180	2.43	-----	-----	....
4-1/4	5	3/8	-----	-----	....	37504250-VDR	856514	5.91	-----	-----	....	37504250-VNY	864490	3.17
4-3/8	5	5/16	-----	-----	....	31204375-VDR	856134	3.34	-----	-----	....	-----	-----	....
4-1/2	5	1/4	-----	-----	....	25004500-VDR	855740	2.50	25004500-VHY	859190	2.50	-----	-----	....
4-1/2	5-1/4	3/8	-----	-----	....	37504500-VDR	856524	6.28	-----	-----	....	-----	-----	....
4-1/2	5-1/2	1/2	50004500-VP	818272	36.19	50004500-VEE	CB3067	66.98	-----	-----	....	-----	-----	....
4-3/4	5-3/8	5/16	-----	-----	....	31204750-VDR	856144	3.81	31204750-VHY	859505	3.81	-----	-----	....
4-3/4	5-1/2	3/8	-----	-----	....	37504750-VDR	856534	6.64	37504750-VHY	859770	6.64	37504750-VNY	864510	3.06
5	5-1/2	1/4	-----	-----	....	25005000-VDR	855750	2.89	25005000-VHY	859200	2.89	-----	-----	....
5	6	1/2	50005000-VP	818278	40.25	50005000-VDR	856874	8.70	50005000-VHY	860060	8.50	-----	-----	....
5-1/4	5-3/4	1/4	-----	-----	....	25005250-VDR	855754	2.87	25005250-VHY	859205	2.87	-----	-----	....
5-1/4	6	3/8	-----	-----	....	37505250-VDR	856554	7.12	37505250-VHY	864052	6.12	37505250-VNY	864520	3.56
5-1/4	6-1/4	1/2	-----	-----	....	50005250-VDR	864018	10.05	-----	-----	....	-----	-----	....
5-1/2	6	1/4	-----	-----	....	25005500-VDR	855760	3.12	25005500-VHY	859210	3.12	-----	-----	....
5-1/2	6-1/4	3/8	-----	-----	....	37505500-VDR	856564	7.55	-----	-----	....	-----	-----	....
5-1/2	6-1/2	1/2	-----	-----	....	50005500-VDR	856894	9.33	-----	-----	....	-----	-----	....
5-3/4	6-3/8	5/16	-----	-----	....	31205750-VDR	856148	4.72	31205750-VHY	859510	4.72	-----	-----	....
5-3/4	6-1/2	3/8	-----	-----	....	37505750-VDR	856568	7.81	-----	-----	....	-----	-----	....
5-3/4	6-3/4	1/2	-----	-----	....	50005750-VEE	CB3075	152.35	-----	-----	....	-----	-----	....
6	6-1/2	1/4	-----	-----	....	25006000-VDR	855770	3.68	25006000-VHY	859215	3.52	-----	-----	....
6	6-3/4	3/8	-----	-----	....	37506000-VDR	856574	8.31	-----	-----	....	-----	-----	....
6	7	1/2	50006000-VP	818290	46.10	50006000-VDR	856914	11.11	-----	-----	....	-----	-----	....
6-1/4	7	3/8	-----	-----	....	37506250-VDR	856584	9.69	-----	-----	....	-----	-----	....
6-1/2	7	1/4	-----	-----	....	25006500-VDR	855780	3.81	25006500-VHY	859230	3.10	-----	-----	....
6-1/2	7-1/4	3/8	-----	-----	....	37506500-VDR	856594	8.41	-----	-----	....	-----	-----	....
6-1/2	7-1/2	1/2	-----	-----	....	50006500-VDR	856924	12.63	-----	-----	....	-----	-----	....
6-3/4	7-3/8	5/16	-----	-----	....	31206750-VDR	856154	6.21	31206750-VHY	859515	6.21	-----	-----	....
6-3/4	7-1/2	3/8	-----	-----	....	37506750-VDR	856604	7.35	-----	-----	....	-----	-----	....
7	7-1/2	1/4	-----	-----	....	25007000-VDR	855790	4.28	25007000-VHY	859240	4.28	-----	-----	....
7	8	1/2	50007000-VP	818308	49.64	50007000-VDR	856934	14.70	-----	-----	....	-----	-----	....
7-1/2	8	1/4	-----	-----	....	25007500-VDR	855800	4.54	25007500-VHY	859250	4.54	-----	-----	....
8	8-1/2	1/4	-----	-----	....	25008000-VDR	855810	5.19	25008000-VHY	859255	5.19	-----	-----	....
8	9	1/2	-----	-----	....	50008000-VEE	CB3070	259.19	-----	-----	....	-----	-----	....

Pkg. Qty. Disc: 2 pkgs. 5%; 5 pkgs. 15%; 10 pkgs. 25%; 25 pkgs. 30%; 50 pkgs. 35%; 100 pkgs. 40%
 XXXX-VEE is a complete vee set there are no quantity discounts

DOUBLE FEMALE ADAPTER ON NEXT PAGE

DANGER - CAUTION These HIGH PRESSURE pump shaft seals MUST NOT BE USED on axles as rotating oil seals as CATASTROPHIC FAILURE can result.

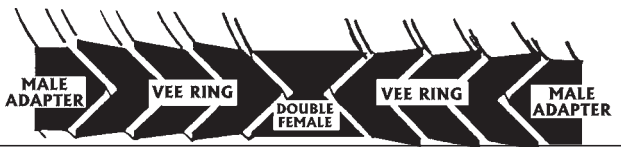
Shaft Size Inches	Bore Size Inches	Seal Depth Inches	TCV Seal Number	Our Sequence Number	Per Each	Seal Depth Inches	TCN Seal Number	Our Sequence Number	Per Each	Seal Depth Inches	C/R Seal No.	Our Sequence Number	Per Each	Seal Depth Inches	Viton C/R Number	Our Sequence Number	Per Each
.313	.686	....	-----		\$....	....	-----		\$....	.313	3094	305786	\$7.12	....	----		\$....
.313	.749	....	-----		....	....	-----		....	.250	3101	305790	5.43	.250	3103	305792	16.80
.313	1.000	....	-----		....	....	-----		....	.313	3171	305804	8.12	....	----		....
.375	.749	....	-----		....	....	-----		....	.250	3689	305878	16.44	....	----		....
.500	.875	....	-----		....	....	-----		....	.313	4940	306066	5.54	....	----		....
.500	.999	....	-----		....	....	-----		....	.313	4996	306088	7.96	.250	4991	306085	18.38
.500	1.124	....	-----		....	....	-----		....	.250	5069	306106	8.50	.250	5072	306107	18.38
.625	.999	....	-----		....	....	-----		....	.250	6151	306307	7.46	....	----		....
.625	1.128	....	-----		....	....	-----		....	.250	6191	306317	6.94	....	----		....
.625	1.124	....	-----		....	....	-----		....	.375	6229	306338	5.31	....	----		....
.625	1.126	....	-----		....	....	-----		....	.250	6232	306340	20.44	....	----		....
.625	1.250	....	-----		....	....	-----		....	.313	6280	306346	11.94	....	----		....
.625	1.379	....	-----		....	....	-----		....	.250	6371	306369	8.50	....	----		....
.625	1.375	....	-----		....	....	-----		....	.375	6388	306384	21.27	....	----		....
.625	1.500	....	-----		....	....	-----		....	.313	6393	306386	19.78	....	----		....
.688	1.124	.281		UP0192-E0	793022	31.53	....	-----	....	....	----	....	....	....	----	....	....
.745	1.497	.250		UP0184-E0	793020	4.23	....	-----	....	....	----	....	....	....	----	....	....
.750	1.250	....	-----		....	....	-----		....	.250	7434	306634	11.10	....	----		....
.750	1.250	....	-----		....	....	-----		....	.375	7449	306644	11.33	....	----		....
.750	1.375	....	-----		....	....	-----		....	....	----	....	....	.250	7509	306685	19.56
.875	1.250	....	-----		....	....	-----		....	....	----	....	....	.250	8634	306941	20.44
.875	1.375	.312		AP1182-E0	793104	3.67	....	-----	....	.250	8660	306954	4.02	.250	8665	306956	17.48
.875	1.497	.250		-----	....	....	-----		....	....	----	....	....	.313	8694	306969	18.09
.969	1.752	.311		AP8214-F0	793316	3.82	....	-----	....	....	----	....	....	....	----	....	....
.984	1.596	....	-----		....	....	-----		....	.250	9700	307182	7.62	....	----		....
.984	1.752	....	-----		....	....	-----		....	.313	9805	307230	24.01	....	----		....
.997	1.750	....	-----		....	....	-----		....	.374	AP6994-G0	793252	7.78	....	----		....
1.000	1.375	....	-----		....	....	-----		....	.250	9814	307232	6.60	....	----		....
1.000	1.499	....	-----		....	....	-----		....	.250	9843	307260	4.93	....	----		....
1.000	1.499	....	-----		....	....	-----		....	.250	9855	307276	20.55	....	----		....
1.000	1.499	....	-----		....	....	-----		....	.250	9858	307278	16.48	....	----		....
1.000	1.500	....	-----		....	....	-----		....	.250	9863	307281	6.67	....	----		....
1.000	1.752	....	-----		....	....	-----		....	.313	9967	307328	7.71	....	----		....
1.000	2.000	....	-----		....	....	-----		....	.313	10131	307410	9.29	....	----		....
1.125	1.626	....	-----		....	....	-----		....	....	----	....	....	.250	11139	307639	23.33
1.125	1.998	.252		AP7719-E0	793278	8.07	....	-----	....	....	----	....	....	....	----	....	....
1.250	1.687	....	-----		....	....	-----		....	.313	12333	307956	9.83	....	----		....
1.250	1.750	....	-----		....	....	-----		....	.250	12360	307982	7.42	.250	12339	307965	25.16
1.250	1.997	....	-----		....	....	-----		....	.438	12438	308046	21.93	....	----		....
1.250	2.328	....	-----		....	....	-----		....	.500	12609	308124	14.31	....	----		....
1.250	2.502	....	-----		....	....	-----		....	.500	12640	308144	13.68	....	----		....
1.438	1.875	....	-----		....	....	-----		....	....	----	....	....	.250	14208	308694	16.84
1.438	2.003	....	-----		....	....	-----		....	....	----	....	....	.313	14211	308698	14.85
1.500	1.997	....	-----		....	....	-----		....	.250	14844	308826	21.23	....	----		....
1.500	2.064	....	-----		....	....	-----		....	.375	14868	308852	22.43	....	----		....
1.500	2.250	....	-----		....	....	-----		....	.375	UP0234-E0	793028	11.95	....	----		....
1.500	2.311	....	-----		....	....	-----		....	....	----	....	....	.500	14979	308923	32.29
1.500	2.328	....	-----		....	....	-----		....	.500	14977	308920	14.13	....	----		....
1.500	2.758	.500		AP2298-E0	793192	7.77	....	-----	....	....	----	....	....	....	----	....	....
1.575	2.375	....	-----		....	....	-----		....	.375	BP1311-E0	793108	27.63	....	----		....
1.625	2.125	....	-----		....	....	-----		....	....	----	....	....	.250	16045	309275	19.17
1.750	2.502	....	-----		....	....	-----		....	.500	17374	309728	14.09	....	----		....
1.938	2.675	....	-----		....	....	-----		....	.250	19213	310379	12.91	....	----		....
1.938	2.835	....	-----		....	....	-----		....	.250	19278	310423	14.40	....	----		....
2.125	2.875	.375		AP2994-E0	793216	9.35	....	-----	....	....	----	....	....	....	----	....	....
2.500	3.251	....	-----		....	....	-----		....	.350	24892	311822	33.98	....	----		....
3.875	5.501	....	-----		....	....	-----		....	.500	38749	314135	41.51	....	----		....

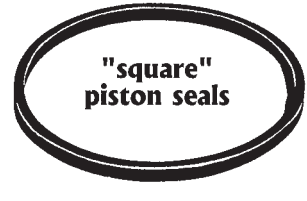
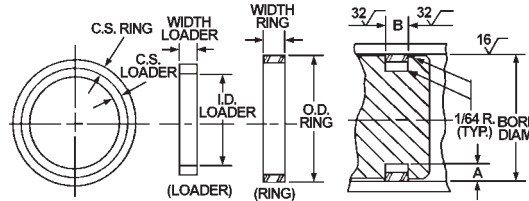


DOUBLE FEMALE ADAPTER SPECIAL FOR CASE ONLY

I.D. Size Inches	For Bore Size Inches	Thickness	Use Vee Ring Series	Vee Ring Number	Our Sequence Number	Per Each
1-1/2	2-1/2	5/8	25002000-	50001500 FNYD	HB0740	\$9.93

PRECISION Hard Nylon Double Female Adapter





HEAVY DUTY

LIGHT DUTY							HEAVY DUTY						
For Bore Size Inches	Light Duty Piston Seal	Our Sequence Number	Per Each	Cross Section	Depth	Loader Part Number	For Bore Size Inches	Heavy Duty Piston Seal	Our Sequence Number	Per Each	Cross Section	Depth	Loader Part Number
1-1/2	PS15000093-156	405600	\$14.66	3/32	5/32		2	PS20000125-187	404710	\$10.47	1/8	3/16	CXP-5
2-1/2	PS25000093-156	CB1800	44.94	3/32	5/32	227-TS	2-3/4	PS27500125-187	404720	11.01	1/8	3/16	CXP-8
2-3/4	PS27500093-156	405710	13.16	3/32	5/32	229	3	PS30000125-187	404750	11.87	1/8	3/16	CXP-9
3	PS30000093-156	405720	13.27	3/32	5/32	231	3	PS30000093-281	860316	8.88	3/32	9/32	333
3-1/4	PS32500093-156	405730	15.25	3/32	5/32	233	3-1/4	PS32500093-281	860318	9.97	3/32	9/32	335
3-1/2	PS35000062-125	404300	13.64	1/16	1/8	151	3-1/4	PS32500125-187	404760	12.30	1/8	3/16	CXP-10
3-1/2	PS35000093-156	404310	16.27	3/32	5/32	235	3-1/2	PS35000093-281	860320	10.33	3/32	9/32	337-TS
3-3/4	PS37500093-156	404330	15.47	3/32	5/32	237-TS	3-1/2	PS35000125-187	404770	12.84	1/8	3/16	CXP-11
4	PS40000093-156	404360	14.23	3/32	5/32	239	3-3/4	PS37500093-281	860322	8.22	3/32	9/32	339
4-1/8	PS41250093-156	404390	13.00	3/32	5/32	240	4	PS40000125-250	404820	10.42	1/8	1/4	CXP-13
4-1/4	PS42500093-156	404400	15.52	3/32	5/32	241	4	PS40000093-281	860324	10.69	3/32	9/32	341-TS
4-1/2	PS45000093-156	404410	16.27	3/32	5/32	243-TS	4-1/4	PS42500093-281	860326	12.57	3/32	9/32	343-TS
5	PS50000093-156	404430	19.50	3/32	5/32	247	4-1/4	PS42500125-250	404890	15.84	1/8	1/4	CXP-14
							4-1/2	PS45000125-375	404970	23.79	1/8	3/8	344
							4-1/2	PS45000093-281	860328	13.29	3/32	9/32	345-TS
							4-1/2	PS45000125-250	404920	11.71	1/8	1/4	CXP-15
							4-3/4	PS47500125-250	405010	20.89	1/8	1/4	CXP-16
							4-3/4	PS47500093-281	860330	10.69	3/32	9/32	347
							5	PS50000093-281	860332	15.11	3/32	9/32	349
							5	PS50000125-375	405030	21.86	1/8	3/8	CXP-17
							5-1/4	PS52500125-375	405090	23.47	1/8	3/8	CXP-18
							5-1/2	PS55000125-375	405092	18.74	1/8	3/8	CXP-19

STEP CUT

3-1/2	PS35000093-281	860320	10.33	3/32	9/32	337
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RECTANGULAR STANDARD


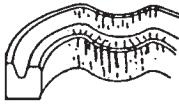



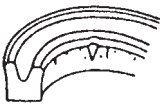

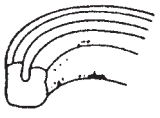




For Bore Size Inches	Rectangular Standard Piston Seal	Our Sequence Number	Per Each	Cross Section	Depth	Loader Part Number
1	PS10000062-125	860300	\$4.89	1/16	1/8	115
1-1/4	PS12500062-125	860302	13.08	1/16	1/8	119
1-1/2	PS15000062-125	860304	6.83	1/16	1/8	123
1-3/4	PS17500062-125	860306	7.31	1/16	1/8	127
2	PS20000062-125	860613	15.11	1/16	1/8	131
2-1/4	PS22500062-125	860310	8.64	1/16	1/8	135
2-1/2	PS25000062-125	860312	12.45	1/16	1/8	139
2-3/4	PS27500062-125	860314	6.83	1/16	1/8	
5	PS50000156-375	405070	19.07	5/32	3/8	348
5-1/4	PS52500156-375	860334	21.03	5/32	3/8	425
5-1/2	PS55000156-375	860336	21.81	5/32	3/8	427
5-3/4	PS57500156-375	860338	22.54	5/32	3/8	429
6	PS60000156-375	405094	29.38	5/32	3/8	CXP-21
6-1/4	PS62500156-375	404610	17.72	5/32	3/8	CXP-22
6-1/2	PS65000156-375	860342	24.41	5/32	3/8	CXP-23
7	PS70000156-375	860344	24.83	5/32	3/8	CXP-25



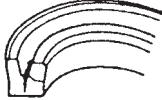

SQUARE STANDARD

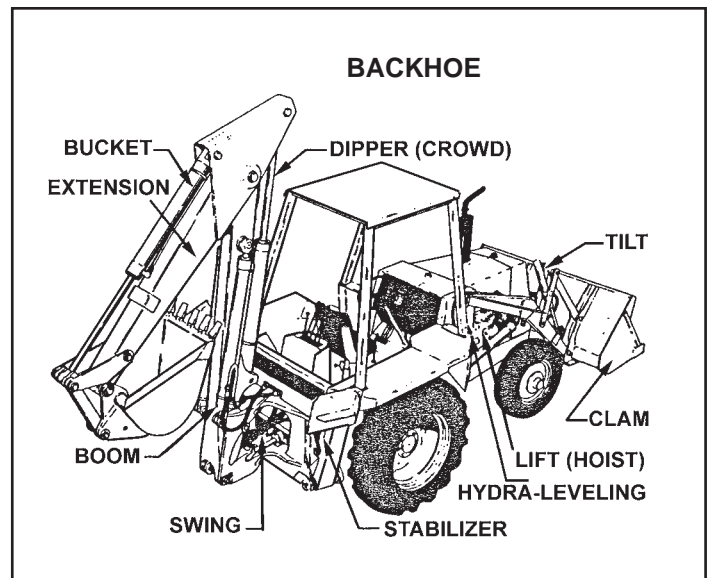
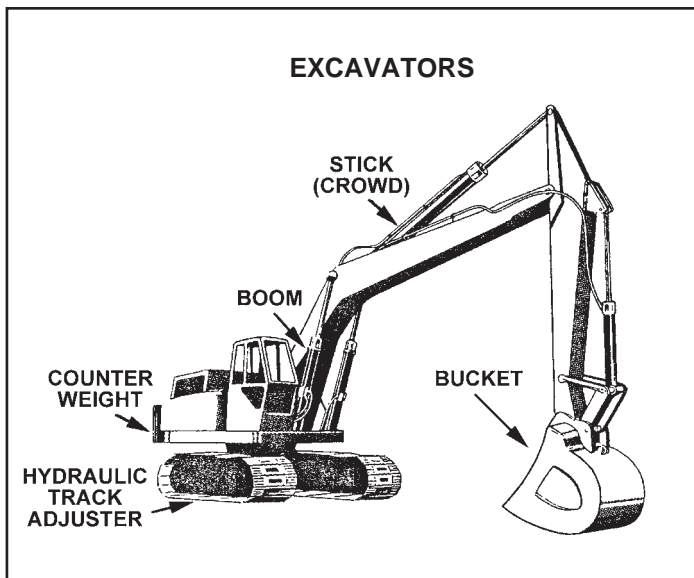
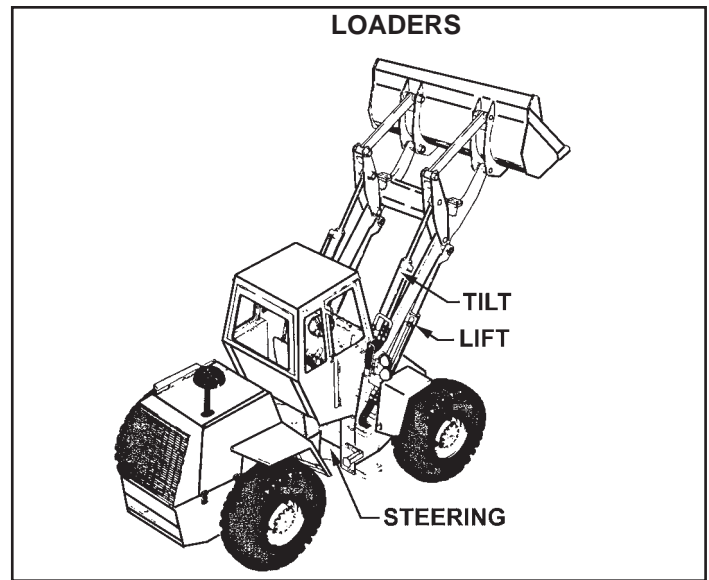
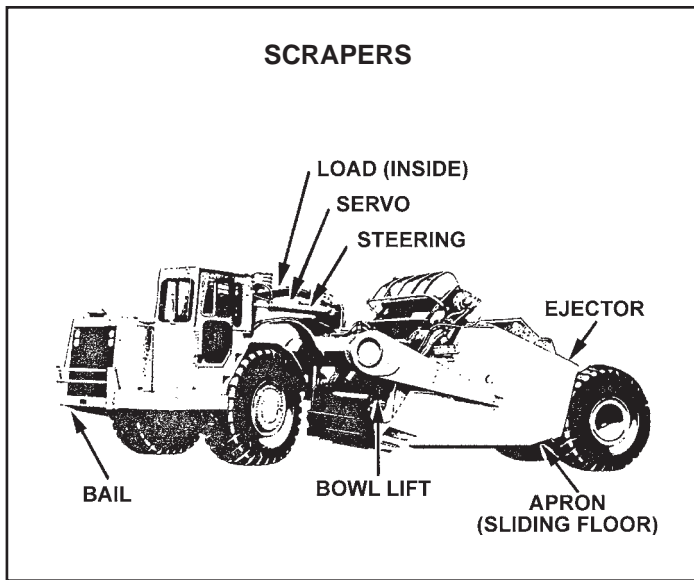
For Bore Size Inches	Square Standard Piston Seal	Our Sequence Number	Per Each	Cross Section	Depth	Loader Part Number
1-1/2	PS15000062-062	860608	\$11.07	1/16	1/8	025
1-3/4	PS17500093-093	860610	2.56	3/32	1/2	125
2	PS20000125-125	860612	2.66	1/8	1/8	129
2-1/4	PS22500125-125	860614	3.18	1/8	1/8	133
2-1/2	PS25000125-125	860616	3.14	1/8	1/8	137
2-3/4	PS27500125-125	860618	3.44	1/8	1/8	141
3	PS30000125-125	860620	3.56	1/8	1/8	145
3-1/4	PS32500125-125	860622	3.75	1/8	1/8	149
3-1/2	PS35000125-125	860624	3.87	1/8	1/8	151
3-3/4	PS37500125-125	860626	4.17	1/8	1/8	152
4	PS40000125-125	860628	4.23	1/8	1/8	153
4-1/4	PS42500125-125	860630	5.06	1/8	1/8	154
4-1/2	PS45000125-125	860632	7.07	1/8	1/8	155
4-3/4	PS47500125-125	860634	7.67	1/8	1/8	156
5	PS50000125-125	860636	7.07	1/8	1/8	157
5-1/4	PS52500125-125	860638	7.13	1/8	1/8	158
5-1/2	PS55000125-125	860640	5.86	1/8	1/8	159
5-3/4	PS57500156-156	860642	6.77	5/32	1/2	251
6	PS60000156-156	860644	9.30	5/32	1/2	253
6-1/4	PS62500156-156	860646	7.07	5/32	1/2	255
6-1/2	PS65000156-156	860648	7.19	5/32	1/2	257
6-3/4	PS67500156-156	860650	7.43	5/32	1/2	258
7	PS70000156-156	860652	10.57	5/32	1/2	259

CATERPILLAR RECTANGULAR SEALS

TEFLON SEALS							RUBBER EXPANDER LOADER						
For Bore Size Inches	Rectangular Standard Piston Seal	Our Sequence Number	Per Each	Cross Section	Depth	Loader Part Number	I.D. of Piston Groove	Cat # Reference Number	Loader Part Number	Our Sequence Number	Per Each	Cross Section	Depth
2	PS20000125-187	404710	\$10.47	1/8	3/16	CXP-5	1-3/4	5J7003	CXP-5	864552	\$5.96	3/32	1/8
2-3/4	PS27500125-187	404720	11.01	1/8	3/16	CXP-8	2-1/2	5J7009	CXP-8	864554	6.08	3/32	1/8
3	PS30000125-187	404750	11.87	1/8	3/16	CXP-9	2-3/4	6J1973	CXP-9	864556	6.08	3/16	1/8
3-1/4	PS32500125-187	404760	12.30	1/8	3/16	CXP-10	3	6J0789	CXP-10	864558	6.12	3/16	1/8
3-1/2	PS35000125-187	404770	12.84	1/8	3/16	CXP-11	3-1/4	5J7013	CXP-11	864560	6.16	3/16	1/8
3-3/4	PS37500125-187	404800	13.91	1/8	3/16	CXP-12	3-1/2	5J8010	CXP-12	864562	5.92	3/16	1/8
4	PS40000125-250	404820	10.42	1/8	1/4	CXP-13	3-3/4	5J5402	CXP-13	864564	6.32	1/4	3/16
4-1/4	PS42500125-250	404890	15.84	1/8	1/4	CXP-14	4	5J7854	CXP-14	864566	6.49	1/4	3/16
4-1/2	PS45000125-250	404920	11.71	1/8	1/4	CXP-15	4-1/4	5J4986	CXP-15	864568	6.53	1/4	3/16
4-3/4	PS47500125-250	405010	20.89	1/8	1/4	CXP-16	4-1/2	5J4987	CXP-16	864570	6.28	1/4	3/16
5	PS50000125-375	405030	21.86	1/8	3/8	CXP-17	4-3/4	5J5020	CXP-17	864572	6.77	5/16	5/16
5-1/4	PS52500125-375	405090	23.47	1/8	3/8	CXP-18	5	5J7233	CXP-18	864574	6.40	5/16	5/16
5-1/2	PS55000125-375	405092	18.74	1/8	3/8	CXP-19	5-1/4	5J4988	CXP-19	864576	6.93	5/16	5/16
6	PS60000156-375	405094	29.38	5/32	3/8	CXP-21	5	5J4989	CXP-21	864578	7.09	5/16	3/8
6-1/4	PS62500156-375	404610	17.72	5/32	3/8	CXP-22	5-1/4	5J4990	CXP-22	864580	6.85	5/16	3/8
6-1/2	PS65000156-375	860342	24.41	5/32	3/8	CXP-23	5-1/2	5J4991	CXP-23	864582	6.97	5/16	3/8
7	PS70000156-375	860344	24.83	5/32	3/8	CXP-25	6	5J4995	CXP-25	864584	7.21	5/16	3/8

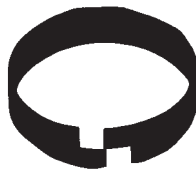
Types of Failure	Visible Condition	Probable Cause	Possible Cure
	Hardening of the dynamic face causing glazing and cracks 	Heat generated by high speed	Slow stroke speed Use alternative seal device
Hardening	Hardening of the whole seal. Loss of elasticity. 	High fluid temperature. Deterioration of fluid. Compatibility of seal to fluid	Lower oil temperature. Renew Fluid Change to different seal compound
	Dynamic face is worn to glossy mirror-like finish 	Insufficient lubrication	Check oil viscosity Use alternative seal device
Wear	Wear on dynamic lip is egg-shaped 	Rod or piston bore not concentric	Hone to within seal specs Replace worn rod or cylinder tube
	Abnormal wear on one side of the dynamic lip 	Worn bearing or wear ring Excessive lateral load	Replace bearings Increase bearing area
Scarring	Cut or dent on the lip 	Storage on a nail or peg. Improper installation tool	Store flat in a plastic bag in a closed cardboard box Installation tools should not have sharp edges.
	Scratches on the dynamic side 	Scars on the rod or bore. Foreign material in fluid	Hone, polish, and de-burr metal parts. Flush system.
Swelling	Material soft and misshaped 	Absorption of fluid. Fluid and seal are incompatible. Water in system	Change seal compound or system fluid. Flush system.
Deterioration	Cracks and loss of elasticity. Material easily crumbles 	High fluid temperature Exposure to ozone or sunlight	Lower oil temperature Store seals away from sunlight and arc welding area.
Grooving	Axial cuts on the dynamic side. 	Metal chips or other foreign material in system. Imploded air bubbles	Flush system. Bleed air from system.
	Extruded material on dynamic side of heel 	Gap between mating surfaces too wide. Worn bearings. Pressure extreme	Employ back-up ring. Replace bearings. Use alternative seal
Extrusion	Extruded material on static side of seal 	Uneven support surface. Undersize back-up ring	Machine surface. Correct back-up size.

Types of Failure	Visible Condition	Probable Cause	Possible Cure
Fracturing	Chunks of material torn from dynamic side 	Excessive back pressure	Check relief valves
	Pressure side of seal burned and broken 	Explosion of residual air at high pressure. "Dieseling"	Check maximum pressure. Bleed air from system.
	Long cracks in the "V" portion of the seal 	Frequent high pressure shocks or spikes. Low temperature start-up	Use alternative style seal. Warm system before applying pressure
	Breaking off of entire dynamic side 	Deterioration of material and/or fluid.	Use alternative material or seal. Flush system





WEAR RING BUTTCUT



WEAR RING STEPCUT



WEAR RING SCARFCUT



BEARING RING SOLID

NYLON REINFORCED WITH GLASS 1/8 WALL THICKNESS

Outside Diam. Inches	Wear Ring Part Number	Our Sequence Number	Per Each	Outside Diam. Inches	Wear Ring Part Number	Our Sequence Number	Per Each	Outside Diam. Inches	Wear Ring Part Number	Our Sequence Number	Per Each
1-1/2	WR15000125-375	HC0060	\$2.67	3-1/2	WR35000125-250	HC0610	\$1.93	5	WR50000125-750	HC0990	\$5.37
1-1/2	WR15000125-500	HC0070	2.23	3-1/2	WR35000125-375	HC0620	3.16	5	WR50000125-1000	HC1000	7.76
1-3/4	WR17500125-375	HC0090	2.92	3-1/2	WR35000125-500	HC0640	2.39	5	WR50000125-1500	HC3280	5.20
1-3/4	WR17500125-500	HC0100	2.89	3-1/2	WR35000125-625	HC0650	2.98	5-1/4	WR52500125-500	HC1020	4.59
2	WR20000125-187	HC0140	2.69	3-1/2	WR35000125-750	CB2980	8.48	5-1/4	WR52500125-625	HC1030	5.08
2	WR20000125-312	HC0160	2.71	3-1/2	WR35000125-1000	CB2998	9.17	5-1/4	WR52500125-1500	HC1042	11.58
2	WR20000125-375	HC0170	2.15	3-1/2	WR35000125-1500	AA02052	14.08	5-1/2	WR55000125-500	HC1060	3.34
2	WR20000125-500	HC0180	2.15	3-5/8	WR36250125-500	HC0670	3.23	5-1/2	WR55000125-625	HC1070	5.11
2	WR20000125-750	HC0190	3.46	3-3/4	WR37500125-375	HC0700	3.16	5-1/2	WR55000125-750	HC1080	5.83
2-1/8	WR21250125-375	HC0200	2.82	3-3/4	WR37500125-500	HC0710	3.76	5-1/2	WR55000125-1000	HC1090	5.53
2-1/4	WR22500125-312	HC0230	2.78	3-3/4	WR37500125-1000	HC0740	4.96	5-1/2	WR55000125-1250	HB0345	34.55
2-1/4	WR22500125-375	HC0240	2.82	3-3/4	WR37500125-1250	HB0282	8.54	6	WR60000125-500	HC1120	2.30
2-1/4	WR22500125-500	HC0250	2.44	4	WR40000125-250	HC0760	2.63	6	WR60000125-625	HC1130	3.71
2-1/4	WR22500125-625	HC0260	3.40	4	WR40000125-375	HC0770	2.51	6	WR60000125-750	HC1140	3.87
2-1/4	WR22500125-750	HC0270	3.50	4	WR40000125-500	HC0780	2.86	6	WR60000125-1000	HC1150	4.79
2-1/2	WR25000125-187	HC0300	2.74	4	WR40000125-625	HC0790	4.02	6	WR60000125-1250	HC3340	11.34
2-1/2	WR25000125-312	HC0320	2.92	4	WR40000125-750	HC0800	5.01	6-1/4	WR62500125-625	HC1160	3.65
2-1/2	WR25000125-375	HC0330	2.09	4	WR40000125-1000	HC1490	5.05	6-1/4	WR62500125-1000	HC1170	4.57
2-1/2	WR25000125-500	HC0340	2.27	4	WR40000125-1250	CB2995	22.37	6-1/2	WR65000125-500	HC1180	2.34
2-1/2	WR25000125-625	HC0350	2.83	4-1/4	WR42500125-375	HC0830	2.98	6-1/2	WR65000125-625	HB0285	7.98
2-1/2	WR25000125-750	HC0360	3.53	4-1/4	WR42500125-500	HC0840	2.92	6-1/2	WR65000125-750	HC1200	10.64
2-3/4	WR27500125-312	HC0380	2.98	4-1/4	WR42500125-625	HC0850	4.81	6-1/2	WR65000125-1000	HC1210	4.67
2-3/4	WR27500125-500	HC0400	2.33	4-1/4	WR42500125-1000	HC0870	6.13	7	WR70000125-500	HC1230	2.46
2-3/4	WR27500125-625	HC0410	3.50	4-1/4	WR42500125-1250	HB0320	10.88	7	WR70000125-625	HC1240	3.45
2-3/4	WR27500125-750	HC0420	2.80	4-1/4	WR42500125-1500	AA020535	18.79	7-1/2	WR75000125-500	HC1260	3.46
2-3/4	WR27500125-1000	HC0430	4.17	4-1/2	WR45000125-375	HC0880	4.06	7-1/2	WR75000125-625	HB0295	6.97
3	WR30000125-250	HC0450	2.80	4-1/2	WR45000125-500	HC0890	3.22	7-1/2	WR75000125-750	HC1270	4.31
3	WR30000125-312	HC0460	2.93	4-1/2	WR45000125-625	HC0900	3.43	7-1/2	WR75000125-1000	HC1280	4.82
3	WR30000125-375	HC0470	2.39	4-1/2	WR45000125-750	HC0910	5.19	8	WR80000125-500	CB2997	11.56
3	WR30000125-500	HC0480	2.74	4-1/2	WR45000125-1000	HC0930	12.08	8	WR80000125-750	CB3000	16.37
3	WR30000125-625	HC0490	3.57	4-1/2	WR45000125-1500	HB0335	19.05	8	WR80000125-1500	HC1295	20.99
3	WR30000125-750	HC0500	3.87	4-3/4	WR47500125-500	HC0920	4.47	8-1/2	WR85000125-500	HC1300	5.55
3	WR30000125-1000	HC0510	4.65	4-3/4	WR47500125-1000	HC0940	6.35	8-1/2	WR85000125-625	HC3065	7.74
3-1/4	WR32500125-375	HC0540	2.39	4-3/4	WR47500125-1250	HB0340	22.57	9	WR90000125-750	HB0310	13.53
3-1/4	WR32500125-500	HC0550	2.39	5	WR50000125-375	HC0960	4.02	9	WR90000125-1000	HC1330	6.66
3-1/4	WR32500125-625	CB2996	8.19	5	WR50000125-500	HC0970	4.53	10	WR100000125-1000	HC1340	8.12
3-1/4	WR32500125-750	HC0570	3.04	5	WR50000125-625	HC0980	3.76				
3-1/4	WR32500125-1000	HC0580	7.12								

Wear Ring Qty. Disc: 2 pkgs. 5%, 5 pkgs. 15%, 10 pkgs. 25%, 25 pkgs 30%, 50 pkgs. 35%, 100 pkgs 40%. WEAR RING TYPES MAY VARY BY SIZE.

Thin 1/16 Cross Section Wear Rings Nylon Scarfcut

Bore Size Inches	Wear Ring Nylon Scarfcut	Our Sequence Number	Per Each	Outside Diam. Inches	Cross Section Inches	Depth Inches
1-5/8	WR16250062-1000	HC3700	\$2.31	1-5/8	1/16	1
1-7/8	WR18750062-1000	HC3710	2.34	1-7/8	1/16	1
2-1/8	WR21250062-1000	HC3720	2.50	2-1/8	1/16	1
2-3/8	WR23750062-1500	HC3730	2.67	2-3/8	1/16	1-1/2
2-5/8	WR26250062-1500	HC3740	2.28	2-5/8	1/16	1-1/2
2-7/8	WR28750062-1500	HC0350	8.14	2-7/8	1/16	1-1/2
3-1/8	WR31250062-1500	HB0355	8.14	3-1/8	1/16	1-1/2

Bearing Rings 1/8 Cross Section Nylon Solid

For Rod Size	Bearing Nylon Solid	Our Sequence Number	Per Each	Outside Diam. Inches	Cross Section Inches	Depth Inches
1-1/4	BR15000125-1000	HB0100	\$6.07	1-1/2	1/8	1
1-1/2	BR17500125-1000	HB0110	29.00	1-3/4	1/8	1
1-3/4	BR20000125-1000	HB0120	9.91	2	1/8	1
2	BR22500125-1000	HB0125	10.22	2-1/4	1/8	1
2-1/4	BR25000125-1500	HB0145	8.02	2-1/2	1/8	1-1/2
2-1/2	BR27500125-1500	HB0175	8.54	2-3/4	1/8	1-1/2

O-RING MEASURING TAPE

Date: 2500



Use this handy tape to measure the size of your O-Rings. Measures metric o-rings from 70mm to 254 mm on one side and standard o-rings from 3-1/8' to 10" on the other side.

Part Number	Our Sequence Number	Per Each
ORMMT ORING	850340	\$7.80

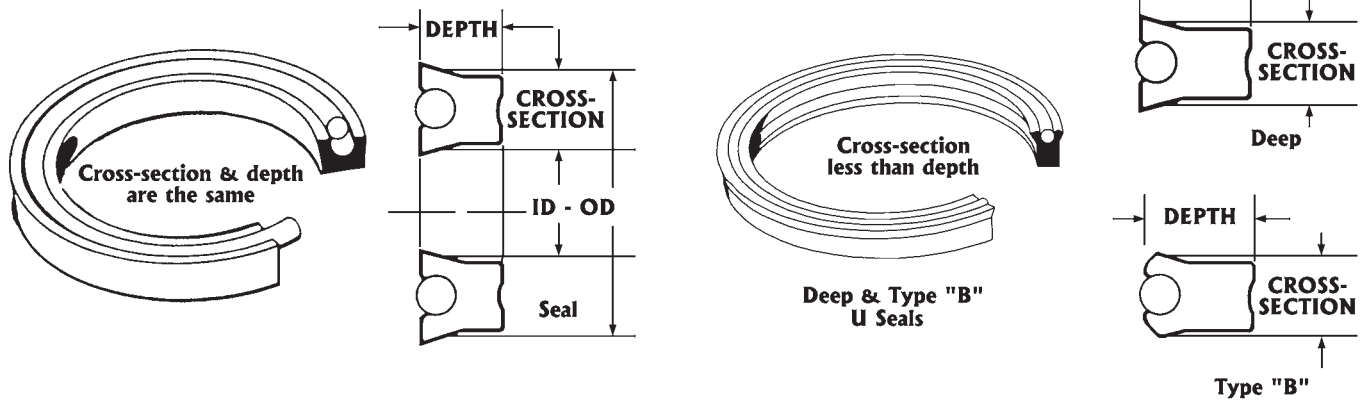
BRASS O-RING TOOL KIT

Date: 3000



Kit consists of two tools designed specifically for removal & replacement of all types of O-Rings. Each tool is made of solid brass to minimize the danger of damaging the O-Ring groove or the metal parts near the seal. Tools come in a handy plastic pocket case.

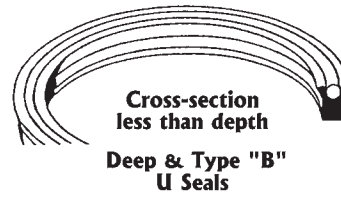
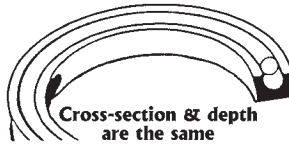
Part Number	Our Sequence Number	Per Each
ORNG TOOL	849893	\$20.77



The **Standard Uring** seal is square in cross section and is the most widely used Uring. It is directly interchangeable with V-Packings; U-Packings; and most O-Rings, in single-acting applications of 1/8" cross section and larger, as well as in double-acting applications using two seals. Deep Uring incorporates the same unique design plus added length to withstand rugged, high shock heavy duty applications.

For Rod Size Inside Diam.	For Bore Size Outside Diam.	Uring Part Size		Part Number	Uring Seal Fits O-Ring Groove Sequence Number	Per Each	DEEP & Type B Uring Part Size		DEEP Uring Seal Fits A Deep Groove			Type B Uring Seal Fits A Deep Groove		
		Depth	Cross Section				Depth	Cross Section	Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each
1/16	5/16	1/8	1/8	12500062	810006	\$3.65	--	--	-----			-----		
3/32	11/32	1/8	1/8	12500093	810008	3.65	--	--	-----			-----		
1/8	3/8	1/8	1/8	12500125	810010	3.65	--	--	-----			-----		
3/16	7/16	1/8	1/8	12500187	810012	2.83	--	--	-----			-----		
1/4	1/2	1/8	1/8	12500250	810014	2.83	1/4	1/8	-----			-----		
1/4	5/8	3/16	3/16	18700250	810126	3.78	5/16	3/16	18700250-312	811188	4.16	12500250-250B	811728	3.00
1/4	3/4	1/4	1/4	25000250	810266	4.96	3/8	1/4	-----			25000250-375B	811863	5.41
5/16	9/16	1/8	1/8	-----	-----	....	1/4	1/8	-----			12500312-250B	811730	3.96
5/16	11/16	3/16	3/16	18700312	812128	15.77	5/16	3/16	-----			-----		
3/8	5/8	1/8	1/8	12500375	810020	2.85	1/4	1/8	-----			12500375-250B	811732	3.14
3/8	3/4	3/16	3/16	18700375	810130	3.78	5/16	3/16	-----			-----		
3/8	7/8	1/4	1/4	25000375	810270	2.97	--	--	-----			-----		
3/8	1	5/16	5/16	31200375	810438	4.46	--	--	-----			-----		
7/16	11/16	1/8	1/8	-----	-----	....	1/4	1/8	12500437-250	811156	2.78	12500437-250B	811734	3.19
7/16	13/16	3/16	3/16	18700437	810132	3.78	5/16	3/16	-----			18700437-312B	811775	4.16
7/16	1-1/16	5/16	5/16	31200437	810440	5.59	--	--	-----			-----		
1/2	3/4	1/8	1/8	12500500	810024	2.85	1/4	1/8	12500500-250	811158	3.26	12500500-250B	811736	3.26
1/2	7/8	3/16	3/16	18700500	810134	2.92	5/16	3/16	-----			18700500-312B	811777	4.40
1/2	1	1/4	1/4	25000500	810274	3.51	3/8	1/4	25000500-375	811264	5.41	25000500-375B	811864	4.15
1/2	1-1/4	3/8	3/8	37500500	810588	7.22	--	--	-----			-----		
9/16	13/16	1/8	1/8	12500562	810028	2.87	1/4	1/8	-----			-----		
9/16	15/16	3/16	3/16	-----	-----	....	5/16	3/16	-----			18700562-312B	811778	4.33
5/8	7/8	1/8	1/8	12500625	810030	2.92	3/16	1/8	12500625-187	811160	2.93	-----		
5/8	7/8	1/8	1/8	12500625	810030	2.92	1/4	1/8	-----			12500625-250B	811740	3.41
5/8	1	3/16	3/16	18700625	810138	3.11	5/16	3/16	-----			-----		
5/8	1-1/8	1/4	1/4	25000625	810278	3.77	3/8	1/4	-----			25000625-375B	811868	5.41
5/8	1-3/8	3/8	3/8	37500625	810590	7.46	--	--	-----			-----		
11/16	1-1/16	3/16	3/16	-----	-----	....	5/16	3/16	-----			18700687-312B	811783	4.60
11/16	1-3/16	1/4	1/4	25000687	810280	4.96	3/8	1/4	-----			25000687-375B	8118698	5.41
11/16	1-5/16	5/16	5/16	31200687	810446	5.84	--	--	-----			-----		
3/4	1	1/8	1/8	12500750	810034	2.98	1/4	1/8	12500750-250	811166	3.51	12500750-250B	811744	3.51
3/4	1-1/8	3/16	3/16	18700750	810144	3.32	1/4	3/16	-----			18700750-250B	8117835	3.67
3/4	1-1/8	3/16	3/16	18700750	810144	3.32	5/16	3/16	-----			18700750-312B	811784	3.67
3/4	1-3/16	7/32	7/32	21800750	810240	4.96	--	--	-----			-----		
3/4	1-1/4	1/4	1/4	25000750	810282	3.90	3/8	1/4	25000750-375	811268	4.22	25000750-375B	811872	4.31
3/4	1-3/8	5/16	5/16	31200750	810448	5.90	1/2	5/16	31200750-500	811364	6.32	31200750-500B	812015	6.32
3/4	1-1/2	3/8	3/8	37500750	810592	7.60	5/8	3/8	-----			-----		
13/16	1-1/16	1/8	1/8	12500812	810036	3.11	1/4	1/8	-----			12500812-250B	811746	4.62
13/16	1-3/16	3/16	3/16	-----	-----	....	5/16	3/16	-----			18700812-312B	811787	4.82
7/8	1-1/8	1/8	1/8	12500875	810038	3.16	1/4	1/8	-----			12500875-250B	811748	3.67
7/8	1-1/4	3/16	3/16	18700875	810148	3.54	3/8	3/16	-----			-----		
7/8	1-1/4	3/16	3/16	18700875	810148	3.54	5/16	3/16	-----			-----		
7/8	1-3/8	1/4	1/4	25000875	810286	3.93	3/8	1/4	-----			25000875-375B	811873	4.40
7/8	1-1/2	5/16	5/16	31200875	810450	5.96	--	--	-----			-----		
15/16	1-3/16	1/8	1/8	12500937	810042	3.19	1/4	1/8	-----			-----		
15/16	1-1/4	5/32	5/32	15600937	810110	4.60	--	--	-----			-----		
15/16	1-5/16	3/16	3/16	18700937	740507	9.99	5/16	3/16	-----			-----		
15/16	1-11/16	3/8	3/8	37500937	810596	7.87	--	--	-----			-----		
1	1-1/4	1/8	1/8	12501000	810044	3.26	1/4	1/8	12501000-250	811172	3.83	12501000-250B	811752	3.67
1	1-5/16	5/32	5/32	15601000	810112	3.70	--	--	-----			-----		
1	1-3/8	3/16	3/16	18701000	810152	3.67	5/16	3/16	18701000-312	811204	4.07	18701000-312B	811792	4.07
1	1-1/2	1/4	1/4	25001000	810290	4.00	3/8	1/4	25001000-375	811272	4.44	25001000-375B	8118742	4.44
1	1-5/8	5/16	5/16	31201000	810452	4.71	1/2	5/16	-----			31201000-500B	812017	5.14
1	1-3/4	3/8	3/8	37501000	810598	6.18	5/8	3/8	-----			-----		
1	2	1/2	1/2	50001000	810728	10.59	--	--	-----			-----		

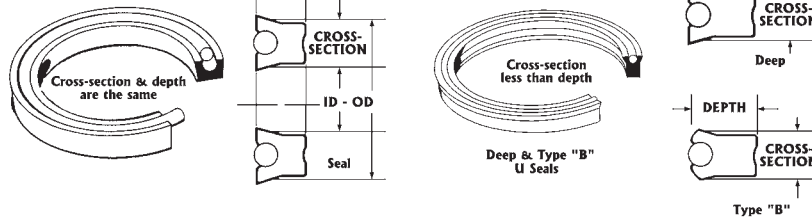
Package of 5 Disc: 5% for 2 pkgs., 15% for 5 pkgs., 25% for 10 pkgs., 30% for 25 pkgs., 35% for 50 pkgs., 40% for 100 pkgs.



For Rod Size		For Bore Size		Uring Part Size		Uring Seal Fits O-Ring Groove			DEEP & Type B Uring Part Size			DEEP Uring Seal Fits A Deep Groove			Type B Uring Seal Fits A Deep Groove		
Inside Diam.	Outside Diam.	Depth	Cross Section	Part Number	Sequence Number	Per Each	Depth	Cross Section	Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each
1-1/16	1-5/16	1/8	1/8	12501062	810046	\$3.35	1/4	1/8	-----	-----	\$....	12501062-250B	811755	\$3.93	-----	-----	-----
1-1/16	1-7/16	3/16	3/16	-----	-----	....	5/16	3/16	-----	-----	....	18701062-312B	811795	4.15	-----	-----	-----
1-1/16	1-9/16	1/4	1/4	25001062	810292	5.22	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-1/16	1-11/16	5/16	5/16	31201062	810454	6.14	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-1/8	1-3/8	1/8	1/8	12501125	810048	3.41	1/4	1/8	12501125-250	811174	3.99	12501125-250B	811757	4.02	-----	-----	-----
1-1/8	1-1/2	3/16	3/16	18701125	810156	3.83	5/16	3/16	18701125-312	811208	4.22	18701125-312B	811796	4.22	-----	-----	-----
1-1/8	1-5/8	1/4	1/4	25001125	810296	4.15	3/8	1/4	25001125-375	811274	4.55	25001125-375B	811877	4.55	-----	-----	-----
1-1/8	1-3/4	5/16	5/16	31201125	810456	4.75	1/2	5/16	31201125-500	5851425	22.40	-----	-----	....	-----	-----	-----
1-3/16	1-7/16	1/8	1/8	-----	-----	....	3/16	1/8	12501187-187	811176	4.02	-----	-----	....	-----	-----	-----
1-3/16	1-1/2	5/32	5/32	15601187	810114	3.89	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-3/16	1-9/16	3/16	3/16	18701187	810158	3.93	5/16	3/16	-----	-----	....	-----	-----	....	-----	-----	-----
1-3/16	1-13/16	5/16	5/16	31201187	810457	6.17	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-1/4	1-1/2	1/8	1/8	12501250	810052	3.55	3/16	1/8	-----	-----	....	12501250-187B	8117595	4.15	-----	-----	-----
1-1/4	1-1/2	1/8	1/8	12501250	810052	3.55	1/4	1/8	12501250-250	811178	4.15	12501250-250B	811760	4.15	-----	-----	-----
1-1/4	1-9/16	5/32	5/32	15601250	810116	3.97	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-1/4	1-5/8	3/16	3/16	18701250	810160	3.97	5/16	3/16	18701250-312	811210	4.37	18701250-312B	811800	4.37	-----	-----	-----
1-1/4	1-3/4	1/4	1/4	25001250	810300	4.27	3/8	1/4	25001250-375	811276	4.59	25001250-375B	811878	4.67	-----	-----	-----
1-1/4	1-7/8	5/16	5/16	31201250	810458	4.80	1/2	5/16	-----	-----	....	31201250-500B	812018	7.57	-----	-----	-----
1-1/4	2	3/8	3/8	37501250	810602	6.81	5/8	3/8	-----	-----	....	37501250-500B	812109	7.87	-----	-----	-----
1-5/16	1-5/16	5/16	5/16	31201312	810459	6.56	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-3/8	1-5/8	1/8	1/8	12501375	810056	3.67	1/4	1/8	12501375-250	811180	4.28	12501375-250B	811762	4.28	-----	-----	-----
1-3/8	1-11/16	5/32	5/32	15601375	810118	4.11	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-3/8	1-3/4	3/16	3/16	18701375	810164	4.09	5/16	3/16	18701375-312	811212	4.60	18701375-312B	811804	4.60	-----	-----	-----
1-3/8	1-7/8	1/4	1/4	25001375	810304	4.55	3/8	1/4	25001375-375	811278	4.97	25001375-375B	811880	4.97	-----	-----	-----
1-3/8	2	5/16	5/16	31201375	810460	5.28	1/2	5/16	31201375-500	811372	5.69	31201375-500B	812020	5.69	-----	-----	-----
1-3/8	2-1/8	3/8	3/8	37501375	810604	7.24	5/8	3/8	-----	-----	....	37501375-625B	812110	10.25	-----	-----	-----
1-7/16	1-11/16	1/8	1/8	12501437	810058	4.75	1/4	1/8	12501437-250	811182	3.77	-----	-----	....	-----	-----	-----
1-7/16	1-13/16	3/16	3/16	18701437	810166	5.34	5/16	3/16	-----	-----	....	18701437-312B	811806	5.96	-----	-----	-----
1-7/16	1-15/16	1/4	1/4	25001437	810306	5.98	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-1/2	1-3/4	1/8	1/8	12501500	810060	3.83	1/4	1/8	12501500-250	811184	4.46	12501500-250B	811767	4.46	-----	-----	-----
1-1/2	1-7/8	3/16	3/16	18701500	810168	4.22	3/8	3/16	18701500-375	811214	4.82	18701500-375B	811808	4.82	-----	-----	-----
1-1/2	2	1/4	1/4	25001500	810308	4.88	3/8	1/4	25001500-375	811280	5.34	25001500-375B	811882	5.34	-----	-----	-----
1-1/2	2-1/8	5/16	5/16	31201500	810462	5.64	1/2	5/16	31201500-500	811374	6.32	31201500-500B	812025	6.62	-----	-----	-----
1-1/2	2-1/4	3/8	3/8	37501500	810606	7.66	5/8	3/8	-----	-----	....	37501500-625B	812112	9.18	-----	-----	-----
1-1/2	2-1/2	1/2	1/2	50001500	810738	10.88	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-5/8	1-7/8	1/8	1/8	12501625	810064	3.99	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-5/8	2	3/16	3/16	18701625	810172	4.44	3/8	3/16	18701625-375	811218	5.07	18701625-375B	811812	5.07	-----	-----	-----
1-5/8	2-1/8	1/4	1/4	25001625	810310	5.05	3/8	1/4	-----	-----	....	25001625-375B	811885	5.50	-----	-----	-----
1-5/8	2-1/4	5/16	5/16	31201625	810464	6.02	1/2	5/16	-----	-----	....	-----	-----	....	-----	-----	-----
1-5/8	2-3/8	3/8	3/8	37501625	810608	8.43	5/8	3/8	-----	-----	....	-----	-----	....	-----	-----	-----
1-11/16	1-15/16	1/8	1/8	12501687	810066	5.19	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-3/4	2	1/8	1/8	12501750	810068	4.07	1/4	1/8	12501750-250	811186	4.83	-----	-----	....	-----	-----	-----
1-3/4	2-1/8	3/16	3/16	18701750	810176	4.53	3/8	3/16	18701750-375	811220	5.36	18701750-375B	811814	5.36	-----	-----	-----
1-3/4	2-1/4	1/4	1/4	25001750	810312	5.34	3/8	1/4	25001750-375	811282	5.94	25001750-375B	811886	5.94	-----	-----	-----
1-3/4	2-3/8	5/16	5/16	31201750	810468	6.32	1/2	5/16	31201750-500	811376	7.03	31201750-500B	812028	7.03	-----	-----	-----
1-3/4	2-1/2	3/8	3/8	37501750	810612	8.79	5/8	3/8	-----	-----	....	37501750-625B	812116	9.70	-----	-----	-----
1-3/4	2-3/4	1/2	1/2	50001750	810740	31.10	3/4	1/2	50001750-750	811554	17.44	50001750-750B	812236	13.58	-----	-----	-----
1-3/4	3	5/8	5/8	62501750	810916	19.33	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-7/8	2-1/8	1/8	1/8	12501875	810070	4.16	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
1-7/8	2-1/4	3/16	3/16	18701875	810180	4.61	3/8	3/16	18701875-375	811222	5.58	18701875-375B	811816	5.58	-----	-----	-----
1-7/8	2-3/8	1/4	1/4	25001875	810314	5.62	3/8	1/4	-----	-----	....	25001875-375B	811888	6.48	-----	-----	-----
1-7/8	2-1/2	5/16	5/16	31201875	810470	6.79	1/2	5/16	31201875-500	811378	7.40	31201875-500B	812033	7.40	-----	-----	-----
2	2-1/4	1/8	1/8	12502000	810072	4.24	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
2	2-3/8	3/16	3/16	18702000	810184	4.71	3/8	3/16	18702000-375	811224	5.96	18702000-375B	811820	5.96	-----	-----	-----
2	2-1/2	1/4	1/4	25002000	810316	5.94	3/8	1/4	25002000-375	811284	6.48	25002000-375B	811890	6.48	-----	-----	-----
2	2-5/8	5/16	5/16	31202000	810474	7.10	1/2	5/16	31202000-500	811380	7.81	31202000-500B	812034	7.81	-----	-----	-----
2	2-3/4	3/8	3/8	37502000	810616	9.60	5/8	3/8	37502000-625	811444	10.58	-----	-----	....	-----	-----	-----
2	3	1/2	1/2	50002000	810744	13.56	3/4	1/2	-----	-----	....	-----	-----	....	-----	-----	-----
2-1/8	2-3/8	1/8	1/8	12502125	810074	5.63	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
2-1/8	2-1/2	3/16	3/16	18702125	810188	4.83	3/8	3/16	18702125-375	811226	6.37	18702125-375B	811823	6.45	-----	-----	-----
2-1/8	2-5/8	1/4	1/4	25002125	810318	6.26	3/8	1/4	-----	-----	....	25002125-375B	811892	6.86	-----	-----	-----
2-1/8	2-3/4	5/16	5/16	31202125	810476	7.40	1/2	5/16	31202125-500	811382	10.53	31202125-500B	812036	8.30	-----	-----	-----
2-1/8	2-7/8	3/8	3/8	37502125	810620	10.18	5/8	3/8	-----	-----	....	-----	-----	....	-----	-----	-----
2-1/4	2-1/2	1/8	1/8	12502250	810076	4.51	--	--	-----	-----	....	-----	-----	....	-----	-----	-----
2-1/4	2-5/8	3/16	3/16	18702250	810190	4.91	3/8	3/16	18702250-375	811230	6.60	18702250-375B	811824	6.60	-----	-----	-----
2-1/4	2-3/4	1/4	1/4	25002250	810320	6.55	3/8	1/4	25002250-375	811286	7.29	25002250-375B	811894	7.29	-----	-----	-----

Package of 5 Pkg. Qty. Disc: 5% for 2 pkgs., 15% for 5 pkgs., 25% for 10 pkgs., 30% for 25 pkgs., 35% for 50 pkgs., 40% for 100 pkgs.

U-RINGS

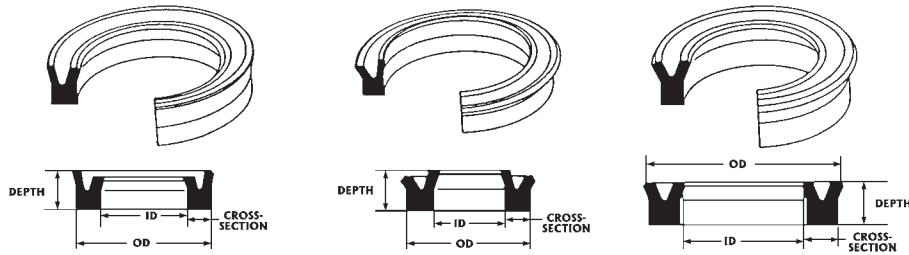


The Standard Uring seal is square in cross section and is the most widely used Uring. It is directly interchangeable with V-Packings; U-Packings; and most O-Rings, in single-acting applications of 1/8" cross section and larger, as well as in double-acting applications using two seals. Deep Uring incorporates the same unique design plus added length to withstand rugged, high shock heavy duty applications.

For Rod Size Inside Diam.	For Bore Size Outside Diam.	Uring Part Size		Uring Seal Fits O-Ring Groove Part Number	Uring Seal Fits Sequence Number	DEEP & Type B Uring Part Size	DEEP Uring Seal Fits A Deep Groove			Type B Uring Seal Fits A Deep Groove				
		Depth	Cross Section				Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each
2-1/4	2-7/8	5/16	5/16	31202250	810478	\$7.46	1/2	5/16	-----	\$....	31202250-500B	812039	\$8.41	
2-1/4	3	3/8	3/8	37502250	810622	10.27	5/8	3/8	37502250-625	811448	11.27	37502250-625B	812120	11.27
2-1/4	3-1/4	1/2	1/2	50002250	810746	30.47	--	--	-----	....	-----	....	....
2-3/8	2-5/8	1/8	1/8	12502375	810078	4.37	--	--	-----	....	-----	....	....
2-3/8	2-3/4	3/16	3/16	18702375	810192	4.81	3/8	3/16	18702375-375	811232	6.56	-----	....
2-3/8	2-7/8	1/4	1/4	25002375	810322	6.54	3/8	1/4	-----	....	25002375-375B	811896	7.20
2-3/8	3	5/16	5/16	31202375	810480	7.85	1/2	5/16	31202375-500	811384	8.56	31202375-500B	812041	8.41
2-1/2	2-3/4	1/8	1/8	12502500	810080	6.02	--	--	-----	....	-----	....	....
2-1/2	2-7/8	3/16	3/16	-----	....	....	5/16	3/16	-----	....	18702500-312B	585062	16.64
2-1/2	2-7/8	3/16	3/16	18702500	810194	4.88	3/8	3/16	18702500-375	811234	6.83	18702500-375B	811832	6.83
2-1/2	3	1/4	1/4	25002500	810324	6.86	3/8	1/4	25002500-375	811288	7.63	25002500-375B	811898	7.63
2-1/2	3-1/8	5/16	5/16	31202500	810482	8.20	1/2	5/16	31202500-500	811386	8.91	31202500-500B	812042	8.91
2-1/2	3-1/4	3/8	3/8	37502500	810628	11.10	5/8	3/8	37502500-625	811450	12.34	37502500-625B	812122	12.34
2-1/2	3-1/2	1/2	1/2	50002500	810750	15.61	3/4	1/2	50002500-750	811556	23.10	50002500-750B	812241	15.46
2-5/8	2-7/8	1/8	1/8	12502625	810082	6.21	--	--	-----	....	-----	....	....
2-5/8	3	3/16	3/16	18702625	810196	5.12	3/8	3/16	18702625-375	811236	7.10	18702625-375B	811837	7.10
2-5/8	3-1/8	1/4	1/4	25002625	810326	7.35	3/8	1/4	-----	....	25002625-375B	811901	8.05
2-5/8	3-1/4	5/16	5/16	31202625	810486	8.50	1/2	5/16	-----	....	-----	....	....
2-5/8	3-3/8	3/8	3/8	37502625	810630	15.65	5/8	3/8	-----	....	37502625-625B	812125	13.48
2-3/4	3	1/8	1/8	12502750	810084	4.78	--	--	-----	....	-----	....	....
2-3/4	3-1/8	3/16	3/16	18702750	810198	5.32	3/8	3/16	-----	....	18702750-375B	811838	7.39
2-3/4	3-1/4	1/4	1/4	25002750	810328	7.41	3/8	1/4	25002750-375	811292	8.37	25002750-375B	811902	8.37
2-3/4	3-3/8	5/16	5/16	31202750	810488	8.91	1/2	5/16	-----	....	31202750-500B	812046	9.80
2-3/4	3-1/2	3/8	3/8	37502750	810634	12.21	5/8	3/8	37502750-625	811452	13.48	37502750-625B	812126	13.48
2-3/4	3-3/4	1/2	1/2	50002750	810752	16.22	--	--	-----	....	-----	....	....
2-3/4	4	5/8	5/8	62502750	810930	20.32	1	5/8	62502750-1000	811654	29.94	-----	....
2-7/8	3-1/8	1/8	1/8	12502875	810086	4.95	--	--	-----	....	-----	....	....
2-7/8	3-1/4	3/16	3/16	18702875	810200	5.48	3/8	3/16	-----	....	-----	....	....
2-7/8	3-3/8	1/4	1/4	25002875	810330	7.71	3/8	1/4	-----	....	25002875-375B	811904	8.55
2-7/8	3-1/2	5/16	5/16	31202875	810490	9.17	1/2	5/16	-----	....	31202875-500B	812048	10.12
2-7/8	3-5/8	3/8	3/8	37502875	810636	17.13	--	--	-----	....	-----	....	....
3	3-1/4	1/8	1/8	12503000	810088	5.12	--	--	-----	....	-----	....	....
3	3-3/8	3/16	3/16	18703000	810202	5.64	3/8	3/16	18703000-375	811238	7.90	18703000-375B	811842	7.90
3	3-1/2	1/4	1/4	25003000	810332	7.99	3/8	1/4	25003000-375	811294	9.05	25003000-375B	811906	9.05
3	3-5/8	5/16	5/16	31203000	810492	9.57	1/2	5/16	31203000-500	811390	10.44	31203000-500B	812051	10.44
3	3-3/4	3/8	3/8	37503000	810640	13.36	5/8	3/8	37503000-625	811454	14.67	37503000-625B	812128	14.67
3	4	1/2	1/2	50003000	810756	18.18	3/4	1/2	-----	....	50003000-750B	812242	20.02
3	4-1/2	3/4	3/4	75003000	811014	36.75	--	--	-----	....	-----	....	....
3-1/16	3-1/2	7/32	7/32	21803062	810250	11.13	--	--	-----	....	-----	....	....
3-1/8	3-1/2	3/16	3/16	18703125	810204	6.01	3/8	3/16	18703125-375	811240	8.36	-----	....
3-1/8	3-5/8	1/4	1/4	25003125	810334	11.14	--	--	-----	....	-----	....	....
3-1/8	3-3/4	5/16	5/16	31203125	810494	9.71	--	--	-----	....	-----	....	....
3-1/8	3-7/8	3/8	3/8	37503125	810642	18.40	5/8	3/8	-----	....	37503125-625B	812130	20.40
3-1/4	3-1/2	1/8	1/8	12503250	810090	5.58	--	--	-----	....	-----	....	....
3-1/4	3-5/8	3/16	3/16	18703250	810206	6.33	3/8	3/16	-----	....	18703250-375B	811846	8.85
3-1/4	3-3/4	1/4	1/4	25003250	810336	8.57	3/8	1/4	25003250-375	811296	9.67	25003250-375B	811908	9.67
3-1/4	3-7/8	5/16	5/16	31203250	810496	9.92	1/2	5/16	-----	....	31203250-500B	812052	11.51
3-1/4	4	3/8	3/8	37503250	810644	14.12	5/8	3/8	37503250-625	811456	15.61	37503250-625B	812133	15.61
3-1/4	4-1/4	1/2	1/2	50003250	810758	25.93	--	--	-----	....	-----	....	....
3-1/4	4-1/2	5/8	5/8	62503250	810936	23.49	1	5/8	-----	....	-----	....	....
3-3/8	3-3/4	3/16	3/16	18703375	810208	6.72	3/8	3/16	-----	....	-----	....	....
3-3/8	3-7/8	1/4	1/4	25003375	810338	8.86	--	--	-----	....	-----	....	....
3-3/8	4	5/16	5/16	31203375	810498	10.65	1/2	5/16	31203375-500	811394	11.65	-----	....
3-3/8	4-1/8	3/8	3/8	37503375	810646	14.67	5/8	3/8	-----	....	37503375-625B	812135	22.01
3-1/2	3-3/4	1/8	1/8	12503500	810092	6.14	--	--	-----	....	-----	....	....
3-1/2	3-7/8	3/16	3/16	18703500	810210	7.04	3/8	3/16	18703500-375	811242	9.80	-----	....
3-1/2	4	1/4	1/4	25003500	810340	9.15	3/8	1/4	25003500-375	811298	10.40	25003500-375B	811910	10.40
3-1/2	4-1/8	5/16	5/16	31203500	810500	11.06	1/2	5/16	31203500-500	811396	12.07	31203500-500B	812057	12.07
3-1/2	4-1/4	3/8	3/8	37503500	810648	15.20	5/8	3/8	37503500-625	811458	16.70	37503500-625B	812136	16.70
3-1/2	4-1/2	1/2	1/2	-----	....	....	3/4	1/2	-----	....	50003500-750B	812245	30.82
3-5/8	4	3/16	3/16	18703625	810212	7.39	3/8	3/16	18703625-375	811244	10.33	18703625-375B	811852	10.33
3-5/8	4-1/8	1/4	1/4	25003625	810342	9.46	3/8	1/4	-----	....	25003625-375B	811912	10.75
3-5/8	4-1/4	5/16	5/16	31203625	810502	11.38	--	--	-----	....	-----	....	....
3-5/8	4-3/8	3/8	3/8	37503625	810650	16.03	5/8	3/8	-----	....	-----	....	....

For Rod Size		For Bore Size		Uring Part Size		Uring Seal Fits			DEEP & Type B Uring Part Size		DEEP Uring Seal Fits			Type B Uring Seal Fits			
Inside Diam.	Outside Diam.	Depth	Cross Section	Part Number	Sequence Number	Per Each	Depth	Cross Section	Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each
3-3/4	4-1/8	3/16	3/16	18703750	810214	\$7.92	3/8	3/16	-----	-----	\$....	18703750-375B	811854	\$11.29	-----	-----	-----
3-3/4	4-1/4	1/4	1/4	25003750	810344	9.75	3/8	1/4	25003750-375	811302	11.04	25003750-375B	811915	11.04	-----	-----	-----
3-3/4	4-3/8	5/16	5/16	31203750	810504	11.74	5/8	5/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
3-3/4	4-1/2	3/8	3/8	37503750	810652	15.98	5/8	3/8	-----	-----	-----	-----	-----	-----	-----	-----	-----
3-3/4	4-3/4	1/2	1/2	50003750	810764	29.30	11/16	1/2	-----	-----	-----	-----	-----	-----	-----	-----	-----
3-3/4	5	5/8	5/8	62503750	810942	34.61	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
3-3/4	5-1/4	3/4	3/4	75003750	811020	43.68	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
3-7/8	4-1/4	3/16	3/16	18703875	810216	8.12	3/8	3/16	-----	-----	-----	18703875-375B	811857	11.07	-----	-----	-----
3-7/8	4-1/2	5/16	5/16	31203875	810506	12.15	1/2	5/16	31203875-500	811398	13.36	-----	-----	-----	-----	-----	-----
3-7/8	4-5/8	3/8	3/8	37503875	810654	16.53	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4	4-1/4	1/8	1/8	12504000	810094	7.48	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4	4-3/8	3/16	3/16	18704000	810218	8.44	3/8	3/16	-----	-----	-----	18704000-375B	811858	12.02	-----	-----	-----
4	4-1/2	1/4	1/4	25004000	810348	10.33	9/16	1/4	25004000-562	811306	11.68	25004000-562B	811920	11.68	-----	-----	-----
4	4-5/8	5/16	5/16	31204000	810508	12.49	9/16	5/16	-----	-----	-----	31204000-562B	812061	13.76	-----	-----	-----
4	4-3/4	3/8	3/8	37504000	810656	25.79	5/8	3/8	37504000-625	811462	18.85	37504000-625B	812142	18.85	-----	-----	-----
4	5	1/2	1/2	50004000	810766	23.28	3/4	1/2	50004000-750	811564	25.62	-----	-----	-----	-----	-----	-----
4	5-1/2	3/4	3/4	75004000	811022	45.81	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-1/8	4-1/2	3/16	3/16	18704125	810220	8.94	3/8	3/16	18704125-375	811248	13.13	-----	-----	-----	-----	-----	-----
4-1/8	4-5/8	1/4	1/4	25004125	585143	24.74	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-1/8	4-3/4	5/16	5/16	31204125	810510	12.79	9/16	5/16	31204125-562	811404	18.84	31204125-562B	812065	18.84	-----	-----	-----
4-1/8	4-7/8	3/8	3/8	37504125	810658	17.52	5/8	3/8	-----	-----	-----	37504125-625B	812145	25.81	-----	-----	-----
4-1/4	4-1/2	1/8	1/8	12504250	810096	8.21	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-1/4	4-5/8	3/16	3/16	18704250	810222	9.35	3/8	3/16	-----	-----	-----	18704250-375B	811861	13.68	-----	-----	-----
4-1/4	4-3/4	1/4	1/4	25004250	810352	10.87	9/16	1/4	25004250-562	811308	12.95	-----	-----	-----	-----	-----	-----
4-1/4	4-7/8	5/16	5/16	31204250	810512	13.23	9/16	5/16	-----	-----	-----	31204250-562B	5851427	36.13	-----	-----	-----
4-1/4	5	3/8	3/8	37504250	810660	18.04	5/8	3/8	37504250-625	811464	19.72	37504250-625B	812146	19.72	-----	-----	-----
4-1/4	5-1/4	1/2	1/2	50004250	810770	24.61	3/4	1/2	-----	-----	-----	50004250-750B	812250	25.57	-----	-----	-----
4-1/4	5-1/2	5/8	5/8	62504250	810946	28.48	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-1/4	5-3/4	3/4	3/4	75004250	811024	48.37	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-3/8	4-3/4	3/16	3/16	-----	-----	-----	3/8	3/16	18704375-375	811250	14.00	-----	-----	-----	-----	-----	-----
4-3/8	4-7/8	1/4	1/4	25004375	810354	11.17	9/16	1/4	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-3/8	5	5/16	5/16	31204375	810514	13.73	1/2	5/16	31204375-500	811408	14.98	-----	-----	-----	-----	-----	-----
4-3/8	5	5/16	5/16	31204375	810514	13.73	9/16	5/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-3/8	5-1/8	3/8	3/8	37504375	810662	24.75	5/8	3/8	37504375-625	811466	27.14	-----	-----	-----	-----	-----	-----
4-1/2	4-3/4	1/8	1/8	12504500	810099	11.95	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-1/2	4-7/8	3/16	3/16	18704500	810226	9.77	3/8	3/16	18704500-375	811252	14.27	-----	-----	-----	-----	-----	-----
4-1/2	5	1/4	1/4	25004500	810356	11.48	3/8	1/4	25004500-375	811312	13.91	-----	-----	-----	-----	-----	-----
4-1/2	5	1/4	1/4	25004500	810356	11.48	9/16	1/4	25004500-562	811314	13.91	25004500-562B	811932	13.91	-----	-----	-----
4-1/2	5-1/8	5/16	5/16	31204500	810516	14.07	5/8	5/16	-----	-----	-----	31204500-625B	812071	15.29	-----	-----	-----
4-1/2	5-1/4	3/8	3/8	37504500	810664	18.97	5/8	3/8	37504500-625	811468	20.72	37504500-625B	812149	20.72	-----	-----	-----
4-1/2	5-1/2	1/2	1/2	50004500	810774	25.88	3/4	1/2	50004500-750	811568	38.30	50004500-750B	812254	38.59	-----	-----	-----
4-5/8	5	--	--	-----	-----	-----	3/8	3/16	18704625-375	811254	14.80	-----	-----	-----	-----	-----	-----
4-5/8	5-1/8	1/4	1/4	-----	-----	-----	9/16	1/4	-----	-----	-----	25004625-562B	811935	19.26	-----	-----	-----
4-5/8	5-3/8	3/8	3/8	-----	-----	-----	5/8	3/8	37504625-625	811470	28.32	37504625-625B	812151	38.35	-----	-----	-----
4-3/4	5	1/8	1/8	12504750	810100	9.38	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-3/4	5-1/8	3/16	3/16	18704750	810228	14.21	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-3/4	5-1/4	1/4	1/4	25004750	810360	12.06	9/16	1/4	-----	-----	-----	25004750-562B	811939	14.86	-----	-----	-----
4-3/4	5-3/8	5/16	5/16	31204750	810518	14.47	5/8	5/16	-----	-----	-----	31204750-625B	812074	16.58	-----	-----	-----
4-3/4	5-1/2	3/8	3/8	37504750	810668	19.93	5/8	3/8	37504750-625	811474	21.66	37504750-625B	812152	21.66	-----	-----	-----
4-3/4	5-3/4	1/2	1/2	50004750	810776	36.34	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-3/4	6	5/8	5/8	62504750	810952	31.73	1	5/8	62504750-1000	811658	46.74	-----	-----	-----	-----	-----	-----
4-7/8	5-3/8	1/4	1/4	25004875	810362	12.32	9/16	1/4	25004875-562	811318	20.65	-----	-----	-----	-----	-----	-----
4-7/8	5-5/8	3/8	3/8	37504875	810670	27.30	5/8	3/8	-----	-----	-----	37504875-625B	812155	29.79	-----	-----	-----
5	5-1/2	1/4	1/4	25005000	810364	12.64	9/16	1/4	25005000-562	811322	15.94	25005000-562B	811944	15.94	-----	-----	-----
5	5-5/8	5/16	5/16	31205000	810522	15.44	5/8	5/16	-----	-----	-----	31205000-625B	812077	17.62	-----	-----	-----
5	5-3/4	3/8	3/8	37505000	810672	20.90	5/8	3/8	37505000-625	811476	22.72	37505000-500B	812157	22.72	-----	-----	-----
5	6	1/2	1/2	50005000	810778	28.46	3/4	1/2	50005000-750	811574	31.27	-----	-----	-----	-----	-----	-----
5	6-1/4	5/8	5/8	62505000	810954	46.97	1	5/8	-----	-----	-----	-----	-----	-----	-----	-----	-----
5	6-1/2	3/4	3/4	75005000	811028	55.39	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
5-1/8	5-5/8	1/4	1/4	25005125	810366	17.29	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
5-1/8	5-3/4	5/16	5/16	31205125	810524	21.10	5/8	5/16	31205125-625	811414	24.86	31205125-625B	812079	24.45	-----	-----	-----
5-1/4	6	3/8	3/8	37505250	810674	21.91	5/8	3/8	37505250-625	811482	23.47	37505250-625B	812160	23.47	-----	-----	-----
5-1/4	6-1/4	1/2	1/2	50005250	810782	39.72	3/4	1/2	-----	-----	-----	-----	-----	-----	-----	-----	-----
5-1/4	6-3/4	3/4	3/4	75005250	811030	57.71	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
5-3/8	5-7/8	1/4	1/4	25005375	810370	18.09	3/8	1/4	25005375-375	811326	24.18	-----	-----	-----	-----	-----	-----
5-3/8	6	5/16	5/16	31205375	810528	16.41	5/8	5/16	31205375-625	811416	19.76	-----	-----	-----	-----	-----	-----
5-3/8	6-1/8	3/8	3/8	37505375	810676	29.96	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
5-1/2	6	1/4	1/4	25005500	810372	14.98	3/8	1/4	25005500-375	811328							

For Rod Size		For Bore Size		Uring Part Size		Uring Seal Fits O-Ring Groove			DEEP & Type B Uring Part Size		DEEP Uring Seal Fits A Deep Groove			Type B Uring Seal Fits A Deep Groove		
Inside Diam.	Outside Diam.	Depth	Cross Section	Part Number	Sequence Number	Per Each	Depth	Cross Section	Part Number	Sequence Number	Per Each	Part Number	Sequence Number	Per Each		
5-5/8	6-1/8	1/4	1/4	25005625	810374	\$18.87	--	--	-----		\$....	-----		\$....		
5-5/8	6-3/8	3/8	3/8	37505625	810680	23.27	5/8	3/8	-----		....	37505625-625B	812171	33.58	
5-3/4	6	1/8	1/8	12505750	810104	17.16	--	--	-----		....	-----		....
5-3/4	6-1/4	1/4	1/4	-----		....	9/16	1/4	25005750-562	811332	26.36	-----		....	
5-3/4	6-1/2	3/8	3/8	-----		....	5/8	3/8	-----		....	37505750-625B	812166	25.49
5-3/4	6-3/4	1/2	1/2	50005750	810790	42.46	3/4	1/2	-----		....	-----		....
5-7/8	6-1/4	3/16	3/16	18705875	810234	18.46	--	--	-----		....	-----		....
5-7/8	6-5/8	3/8	3/8	37505875	810684	32.52	5/8	3/8	-----		....	37505875-625B	812177	34.85	
6	6-1/2	1/4	1/4	25006000	810380	15.11	9/16	1/4	25006000-562	811334	20.55	25006000-562B	811958	20.55		
6	6-5/8	5/16	5/16	31206000	810534	18.17	5/8	5/16	-----		....	31206000-625B	812087	23.08	
6	6-3/4	3/8	3/8	37506000	810686	24.65	1/2	3/8	-----		....	37506000-500B	812168	26.38	
6	7	1/2	1/2	50006000	810792	32.48	3/4	1/2	50006000-750	811580	34.41	50006000-750B	812264	34.41		
6	7-1/4	5/8	5/8	62506000	810960	51.56	--	--	-----		....	-----		....
6	7-1/2	3/4	3/4	75006000	811034	63.02	--	--	-----		....	-----		....
6-1/4	6-3/4	1/4	1/4	25006250	810382	15.24	9/16	1/4	-----		....	25006250-562B	811960	28.41	
6-1/4	6-7/8	5/16	5/16	31206250	810538	18.45	--	--	-----		....	-----		....
6-1/4	7	3/8	3/8	37506250	810688	24.94	5/8	3/8	37506250-625	811494	26.97	37506250-625B	812172	26.97		
6-1/4	7-1/4	1/2	1/2	50006250	810794	32.71	3/4	1/2	-----		....	-----		....
6-1/4	7-1/2	5/8	5/8	62506250	810964	54.13	--	--	-----		....	-----		....
6-1/4	7-3/4	--	--	-----		....	1-1/4	3/4	75006250-1250	811690	70.56	-----		....	
6-3/8	7	5/16	5/16	31206375	810540	18.81	5/8	5/16	-----		....	-----		....
6-1/2	7	1/4	1/4	25006500	810384	15.82	9/16	1/4	25006500-562	811336	22.09	-----		....	
6-1/2	7-1/8	5/16	5/16	31206500	810542	19.17	5/8	5/16	-----		....	31206500-625B	812090	25.27	
6-1/2	7-1/4	3/8	3/8	37506500	810690	25.79	1/2	3/8	37506500-500	811496	37.39	37506500-500B	812174	27.91		
6-1/2	7-1/4	3/8	3/8	37506500	810690	25.79	5/8	3/8	37506500-625	811498	27.91	-----		....	
6-1/2	7-1/2	1/2	1/2	50006500	810798	33.60	3/4	1/2	-----		....	-----		....
6-1/2	7-3/4	5/8	5/8	62506500	810966	43.31	--	--	-----		....	-----		....
6-1/2	8	3/4	3/4	-----		....	1-1/4	3/4	75006500-1250	811700	73.13	-----		....	
6-3/4	7-1/4	1/4	1/4	-----		....	9/16	1/4	-----		....	25006750-562B	811966	23.00
6-3/4	7-3/8	5/16	5/16	31206750	810546	19.83	5/8	5/16	-----		....	31206750-625B	812094	26.13	
6-3/4	7-1/2	3/8	3/8	37506750	810692	26.61	5/8	3/8	-----		....	37506750-625B	812180	28.90	
6-3/4	7-3/4	1/2	1/2	-----		....	3/4	1/2	-----		....	50006750-750B	812270	49.02
6-3/4	8	5/8	5/8	62506750	810970	44.71	1	5/8	62506750-1000	811662	65.96	-----		....	
7	7-1/2	1/4	1/4	25007000	810388	16.98	3/8	1/4	-----		....	25007000-375B	811969	23.94	
7	7-1/2	1/4	1/4	25007000	810388	16.98	9/16	1/4	25007000-562	811342	23.94	-----		....	
7	7-5/8	5/16	5/16	31207000	810548	20.68	5/8	5/16	-----		....	-----		....
7	7-3/4	3/8	3/8	37507000	810694	27.34	1/2	3/8	-----		....	37507000-500B	812184	29.84	
7	7-3/4	3/8	3/8	37507000	810694	27.34	5/8	3/8	37507000-625	811502	29.84	37507000-625B	812186	29.84		
7	8	1/2	1/2	-----		....	3/4	1/2	50007000-750	811584	37.78	-----		....	
7	8-1/4	5/8	5/8	62507000	810974	61.84	1	5/8	-----		....	-----		....
7	8-1/2	3/4	3/4	75007000	811038	71.09	1-1/4	3/4	75007000-1250	811692	78.24	-----		....	
7-1/4	7-3/4	1/4	1/4	25007250	810392	17.52	--	--	-----		....	-----		....
7-1/4	7-7/8	5/16	5/16	31207250	810550	21.18	--	--	-----		....	-----		....
7-1/4	8	3/8	3/8	37507250	810696	28.10	5/8	3/8	37507250-625	811504	31.16	-----		....	
7-1/4	8-1/4	1/2	1/2	50007250	810804	35.82	--	--	-----		....	-----		....
7-3/8	8	5/16	5/16	31207375	810552	21.49	--	--	-----		....	-----		....
7-1/2	8	1/4	1/4	-----		....	9/16	1/4	25007500-562	811344	25.87	25007500-562B	811972	25.87	
7-1/2	8-1/4	3/8	3/8	37507500	810698	28.96	5/8	3/8	37507500-625	811508	42.50	37507500-625B	812192	31.71		
7-1/2	8-1/2	1/2	1/2	50007500	810806	15.95	3/4	1/2	-----		....	-----		....
7-1/2	8-3/4	--	--	-----		....	1	5/8	-----		....	-----		....
7-1/2	9	3/4	3/4	75007500	811042	75.78	1-1/4	3/4	-----		....	-----		....
7-3/4	8-1/4	1/4	1/4	25007750	810396	25.00	9/16	1/4	-----		....	25007750-562B	811974	48.30	
7-3/4	8-1/2	3/8	3/8	37507750	810702	29.96	5/8	3/8	37507750-625	811512	32.60	-----		....	
7-3/4	8-3/4	1/2	1/2	50007750	810808	50.79	--	--	-----		....	-----		....
7-3/4	9	5/8	5/8	-----		....	1	5/8	-----		....	62507750-1000B	812324	75.02
8	8-1/2	1/4	1/4	25008000	810398	19.34	9/16	1/4	-----		....	-----		....
8	8-5/8	5/16	5/16	31208000	810556	22.48	5/8	5/16	-----		....	-----		....
8	8-3/4	3/8	3/8	37508000	810704	30.48	5/8	3/8	-----		....	-----		....
8	9	1/2	1/2	50008000	810810	39.06	3/4	1/2	-----		....	-----		....
8	9-1/2	3/4	3/4	75008000	811044	80.40	--	--	-----		....	-----		....
8-1/4	8-3/4	1/4	1/4	-----		....	9/16	1/4	-----		....	25008250-562B	811983	38.28
8-1/4	9	3/8	3/8	37508250	810706	31.36	5/8	3/8	-----		....	-----		....
8-1/4	9-1/4	1/2	1/2	50008250	810814	53.86	3/4	1/2	50008250-750	811590	59.21	-----		....	
8-1/4	9-3/4	3/4	3/4	75008250	811046	82.67	--	--	-----		....	-----		....
8-1/2	9	1/4	1/4	25008500	810400	20.15	9/16	1/4	-----		....	-----		....
8-1/2	9-1/4	3/8	3/8	37508500	810708	43.14	5/8	3/8	-----		....	-----		....
8-1/2	9-1/2	1/2	1/2	-----		....	3/4	1/2	50008500-750	811592	60.88	-----		....	
8-1/2	9-3/4	5/8	5/8	62508500	810984	74.51	1	5/8	-----		....	-----		....
8-1/2	10	3/4	3/4	75008500	811048	84.91	1-1/4	3/4	-----		....	-----		....
8-3/4	9-1/2	3/8	3/8	-----		....	5/8	3/8	37508750-625	811518	55.34	-----		....	
8-3/4	9-3/4	1/2	1/2	50008750	810818	56.82	--	--	-----		....	-----		....
8-3/4	10	5/8	5/8	62508750	810986	76.48	1	5/8	62508750-1000	811666	84.15	-----		....	
9	9-1/2	1/4	1/4	25009000	810404	29.35	--	--	-----		....	-----		....
9	9-3/4	3/8	3/8	37509000	810716	45.48	5/8	3/8	-----		....	-----		....
9	10	1/2	1/2	50009000	810820	58.29	3/4	1/2	50009000-750	811594	64.10	-----		....	
9	10-1/4	--	--													



Rod U-Seals

The latest innovation in rod seal designs. This U-Seal is specifically engineered to seal on its inside diameter. It was developed to attain maximum life and reliability in rod sealing.

Piston U-Seals

The latest development in specialty piston seals. This U-Seal is specifically designed to seal on its outside diameter. It was developed to extend serviceability and improve reliability in piston sealing.

Symmetrical U-Seal

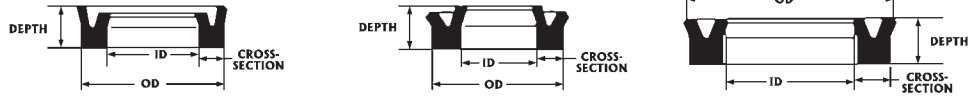
This U-Seal can be used interchangeable for either rod or piston sealing.

Almost all of these U-Seals are greater in depth than in cross section, and may fit in one backup or two backup O-Ring groove, but not in the no backup O-ring grooves.

U-Seals are made of a superior blend of urethane to provide maximum service life and performance.

ROD SIZE		BORE SIZE		DEEP U-SEAL			MEDIUM DEEP U-SEAL			LESS DEEP U-SEAL					
Inside Diam.	Outside Diam.	Type	Cross Section	Part Number	Sequence Depth	Per Each	Part Number	Sequence Depth	Per Each	Part Number	Sequence Depth	Per Each			
1/4	1/2	Sym.	1/8	12500250-250	1/4	584916	2.71	-----	\$....	-----	-----	\$....			
1/4	5/8	Sym.	3/16	18700250-312	5/16	584984	2.89	-----	....	-----	-----	....	
1/4	3/4	Sym.	1/4	-----	-----	-----	25000250-312	5/16	585096	3.75	-----		
5/16	13/16	Sym.	1/4	-----	-----	-----	25000312-312	5/16	585100	3.75	25000312-250	1/4	585098	3.75
3/8	5/8	Sym.	1/8	12500375-250	1/4	584922	2.81	-----	....	-----	-----	....	
3/8	3/4	Sym.	3/16	18700375-312	5/16	584988	2.94	-----	....	-----	-----	....	
3/8	7/8	Sym.	1/4	-----	-----	-----	25000375-312	5/16	585104	3.75	-----		
7/16	11/16	Rod	1/8	-----	-----	-----	-----	-----	12500437-125	1/8	584702	2.85	
1/2	7/8	Sym.	3/16	18700500-312	5/16	584992	5.59	-----	....	-----	-----	....	
1/2	1	Sym.	1/4	-----	-----	-----	-----	25000500-250	1/4	585106	5.59		
5/8	7/8	Rod	1/8	12500625-250	1/4	584710	4.81	-----	....	-----	-----	....	
5/8	1-1/8	Sym.	1/4	-----	-----	-----	....	-----	....	-----	-----	....
3/4	1	Sym.	1/8	-----	-----	-----	-----	12500750-125	1/8	584938	4.72		
3/4	1	Rod	1/8	12500750-250	1/4	584712	4.83	-----	....	-----	-----	....	
3/4	1-1/8	Sym.	3/16	18700750-312	5/16	585002	3.26	-----	....	-----	-----	....	
3/4	1-1/4	Sym.	1/4	-----	-----	-----	-----	25000750-250	1/4	585112	5.95		
13/16	1-1/16	Sym.	1/8	12500812-250	1/4	584944	3.20	-----	....	-----	-----	....	
7/8	1-1/8	Rod	1/8	12500875-250	1/4	584714	5.10	-----	....	-----	-----	....	
1	1-1/4	Rod	1/8	12501000-250	1/4	584716	5.15	-----	....	-----	-----	....	
1	1-3/8	Sym.	3/16	18701000-312	5/16	585010	4.11	-----	....	-----	-----	....	
1	1-3/8	Rod	3/16	-----	-----	-----	18701000-250	1/4	584738	5.51	-----		
1	1-1/2	Sym.	1/4	-----	-----	-----	-----	25001000-250	1/4	585116	6.71		
1	1-1/2	Rod	1/4	-----	-----	-----	-----	25001000-250	1/4	584792	5.91		
1-1/8	1-3/8	Sym.	1/8	-----	-----	-----	12501125-187	3/16	584954	4.61	-----		
1-1/8	1-1/2	Rod	3/16	18701125-312	5/16	584744	5.62	-----	....	-----	-----	....	
1-1/4	1-1/2	Rod	1/8	12501250-250	1/4	584718	5.59	-----	....	-----	-----	....	
1-1/4	1-5/8	Rod	3/16	-----	-----	-----	18701250-312	5/16	584750	5.95	18701250-250	1/4	584748	6.23
1-1/4	1-3/4	Sym.	1/4	25001250-375	3/8	585126	5.43	-----	-----	25001250-250	1/4	585124	8.20	
1-1/4	1-3/4	Rod	1/4	25001250-375	3/8	584796	6.10	-----	....	-----	-----	....	
1-3/8	1-5/8	Sym.	1/8	-----	-----	-----	12501375-187	3/16	584964	11.34	-----		
1-3/8	1-5/8	Rod	1/8	12501375-250	1/4	584720	5.86	-----	....	-----	-----	....	
1-3/8	1-3/4	Rod	3/16	-----	-----	-----	18701375-312	5/16	584754	6.04	-----		
1-3/8	1-7/8	Sym.	1/4	-----	-----	-----	-----	-----	25001375-250	1/4	740510	21.59	
1-3/8	1-7/8	Rod	1/4	25001375-375	3/8	584798	6.62	-----	....	-----	-----	....	
1-3/8	2	Sym.	5/16	-----	-----	-----	-----	-----	31201375-312	5/16	585194	9.32	
1-3/8	2	PST	5/16	31201375-500	1/2	584598	4.62	-----	....	-----	-----	....	
1-1/2	1-3/4	Sym.	1/8	-----	-----	-----	12501500-187	3/16	584968	6.76	-----		
1-1/2	1-7/8	Sym.	3/16	-----	-----	-----	18701500-312	5/16	585024	9.13	-----		
1-1/2	1-7/8	Rod	3/16	18701500-375	3/8	584760	6.31	18701500-312	5/16	584758	6.30	18701500-250	1/4	584756	6.30
1-1/2	2	Sym.	1/4	25001500-375	3/8	585132	9.76	18701500-280	9/32	584757	5.55	25001500-312	5/16	585130	6.08
1-1/2	2	Rod	1/4	25001500-375	3/8	584802	7.16	-----	....	-----	-----	....	
1-1/2	2	PST	1/4	25001500-375	3/8	584546	5.32	-----	....	-----	-----	....	
1-5/8	2	PST	3/16	18701625-375	3/8	584520	5.48	-----	....	-----	-----	....	
1-5/8	2	Rod	3/16	18701625-375	3/8	584766	7.17	-----	....	-----	-----	....	
1-5/8	2-1/4	Rod	1/4	25001625-375	3/8	584804	6.85	-----	....	-----	-----	....	

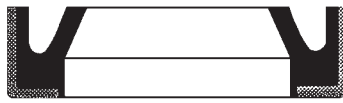
U-SEALS



Almost all of these U-Seals are greater in depth than in cross section, and may fit in one backup or two backup O-Ring groove, but not in the no backup O-ring grooves.

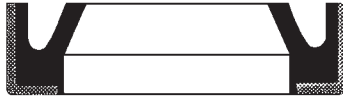
U-Seals are made of a superior blend of urethane to provide maximum service life and performance.

ROD SIZE		BORE SIZE		DEEP U-SEAL				MEDIUM DEEP U-SEAL				LESS DEEP U-SEAL			
Inside Diam.	Outside Diam.	Type	Cross Section	Part Number	Sequence Depth	Number	Per Each	Part Number	Sequence Depth	Number	Per Each	Part Number	Sequence Depth	Number	Per Each
1-3/4	2-1/8	Rod	3/16	18701750-375	3/8	584770	\$6.62	18701750-280	9/32	5847687	\$5.72	18701750-250	1/4	584768	\$6.62
1-3/4	2-1/4	Sym.	1/4	25001750-375	3/8	585134	6.85	-----	-----	-----	-----	-----	-----	-----	-----
1-3/4	2-1/4	Rod	1/4	25001750-375	3/8	584806	7.97	-----	-----	-----	-----	-----	-----	-----	-----
1-7/8	2-1/2	PST	5/16	31201875-500	1/2	584600	6.60	-----	-----	-----	-----	-----	-----	-----	-----
2	2-3/8	Sym.	3/16	18702000-375	3/8	585054	12.11	18702000-312	5/16	585052	12.11	18702000-250	1/4	585048	12.11
2	2-3/8	Rod	3/16	18702000-375	3/8	584774	7.87	18702000-312	5/16	584772	7.87	18702000-280	9/32	584771	7.05
2	2-1/2	Sym.	1/4	25002000-375	3/8	585136	7.47	-----	-----	-----	-----	-----	-----	-----	-----
2	2-1/2	Rod	1/4	25002000-375	3/8	584808	9.35	-----	-----	-----	-----	-----	-----	-----	-----
2	2-1/2	PST	1/4	25002000-375	3/8	584550	8.10	-----	-----	-----	-----	-----	-----	-----	-----
2-1/8	2-1/2	PST	3/16	18702125-375	3/8	584524	8.42	18702125-312	5/16	584522	7.98	-----	-----	-----	-----
2-1/8	2-5/8	Sym.	1/4	25002125-375	3/8	740512	31.16	-----	-----	-----	-----	-----	-----	-----	-----
2-1/4	2-3/4	Sym.	1/4	25002250-375	3/8	585138	13.11	-----	-----	-----	-----	-----	-----	-----	-----
2-1/4	2-3/4	Rod	1/4	25002250-375	3/8	584810	9.75	-----	-----	-----	-----	-----	-----	-----	-----
2-3/8	2-7/8	Sym.	1/4	25002375-375	3/8	585140	6.79	-----	-----	-----	-----	-----	-----	-----	-----
2-3/8	3	PST	5/16	31202375-500	1/2	584602	8.25	-----	-----	-----	-----	-----	-----	-----	-----
2-1/2	3	Sym.	1/4	25002500-375	3/8	585144	14.05	-----	-----	-----	-----	-----	-----	-----	-----
2-1/2	3	PST	1/4	25002500-375	3/8	584558	10.11	-----	-----	-----	-----	-----	-----	-----	-----
2-1/2	3	Rod	1/4	25002500-375	3/8	584812	10.83	-----	-----	-----	-----	-----	-----	-----	-----
2-3/4	3-1/4	Rod	1/4	25002750-375	3/8	584814	11.77	-----	-----	-----	-----	-----	-----	-----	-----
2-3/4	3-1/2	PST	3/8	-----	-----	-----	-----	37502750-500	1/2	584624	11.95	-----	-----	-----	-----
2-7/8	3-1/2	PST	5/16	31202875-500	1/2	584604	10.85	-----	-----	-----	-----	-----	-----	-----	-----
3	3-1/2	PST	1/4	-----	-----	-----	-----	25003000-375	3/8	584564	12.89	25003000-250	1/4	584562	10.88
3	3-1/2	Rod	1/4	-----	-----	-----	-----	25003000-375	3/8	584816	12.64	-----	-----	-----	-----
3-1/4	3-3/4	Rod	1/4	-----	-----	-----	-----	-----	-----	-----	-----	25003250-375	3/8	584818	14.38
3-1/4	4	PST	3/8	-----	-----	-----	-----	37503250-500	1/2	584632	12.16	-----	-----	-----	-----
3-3/8	3-3/4	Sym.	3/16	-----	-----	-----	-----	18703375-375	3/8	740508	36.66	-----	-----	-----	-----
3-1/2	4	PST	1/4	25003500-375	3/8	584570	13.90	-----	-----	-----	-----	-----	-----	-----	-----
3-1/2	4-1/4	Rod	3/8	37503500-625	5/8	584876	23.90	-----	-----	-----	-----	-----	-----	-----	-----
3-5/8	4	PST	3/16	18703625-375	3/8	584528	11.73	-----	-----	-----	-----	-----	-----	-----	-----
3-3/4	4-1/4	PST	1/4	25003750-375	3/8	584572	12.00	-----	-----	-----	-----	-----	-----	-----	-----
3-3/4	4-1/2	Sym.	3/8	-----	-----	-----	-----	-----	-----	-----	-----	37503750-375	3/8	585254	21.85
3-3/4	4-1/2	PST	3/8	-----	-----	-----	-----	37503750-500	1/2	584638	49.38	-----	-----	-----	-----
3-7/8	4-1/4	Sym.	3/16	18703875-375	3/8	585080	10.66	-----	-----	-----	-----	-----	-----	-----	-----
4	4-1/2	Rod	1/4	-----	-----	-----	-----	-----	-----	-----	-----	25004000-375	3/8	584824	16.45
4	4-1/2	PST	1/4	-----	-----	-----	-----	-----	-----	-----	-----	25004000-375	3/8	584574	12.44
4	4-3/4	Sym.	3/8	-----	-----	-----	-----	37504000-500	1/2	585256	23.55	-----	-----	-----	-----
4-1/8	4-5/8	Sym.	1/4	25004125-562	9/16	585160	11.46	-----	-----	-----	-----	-----	-----	-----	-----
4-1/4	5	PST	3/8	37504250-625	5/8	584645	29.40	37504250-500	1/2	584644	20.90	-----	-----	-----	-----
4-1/2	5	Sym.	1/4	-----	-----	-----	-----	25004500-375	3/8	585164	24.13	-----	-----	-----	-----
4-1/2	5	PST	1/4	25004500-562	9/16	584582	18.83	25004500-375	3/8	584580	25.62	-----	-----	-----	-----
4-1/2	5-1/4	Sym.	3/8	37504500-625	5/8	740520	54.80	37504500-500	1/2	585268	19.29	-----	-----	-----	-----
4-3/4	5-1/4	Sym.	1/4	25004750-562	9/16	740514	57.02	-----	-----	-----	-----	-----	-----	-----	-----
4-7/8	5-3/8	Sym.	1/4	25004875-562	9/16	740515	14.82	-----	-----	-----	-----	-----	-----	-----	-----
5	5-3/4	Rod	3/8	37505000-625	5/8	584886	32.44	-----	-----	-----	-----	-----	-----	-----	-----
5-1/8	5-3/4	Sym.	5/16	31205125-625	5/8	740518	16.88	-----	-----	-----	-----	-----	-----	-----	-----
5-1/4	6	PST	3/8	37505250-625	5/8	584652	28.55	37505250-500	1/2	584650	28.55	-----	-----	-----	-----
5-1/2	6	PST	1/4	25005500-562	9/16	584596	19.81	-----	-----	-----	-----	-----	-----	-----	-----
6-1/2	7	Sym.	1/4	25006500-562	9/16	585176	20.55	-----	-----	-----	-----	-----	-----	-----	-----
7	7-3/4	Sym.	3/8	-----	-----	-----	-----	37507000-500	1/2	740528	124.83	-----	-----	-----	-----
7-1/2	8-1/4	Sym.	3/8	-----	-----	-----	-----	37507500-500	1/2	585286	29.51	-----	-----	-----	-----
8	9	PST	1/2	50008000-750	3/4	740532	194.74	-----	-----	-----	-----	-----	-----	-----	-----
9	10	PST	1/2	50009000-750	3/4	584676	54.71	-----	-----	-----	-----	-----	-----	-----	-----



Shaft Size Inch	Bore Size Inch	Seal Depth Inch	*WPC & WPB Seal Number		Our Sequence Number	Per Each	Seal Depth Inch	Seal Number	Our Sequence Number	Per Each	Seal Depth Inch	Date: 2000 C/R Scraper Number		Our Sequence Number	Per Each
			WPB	WPC								C/R SCRAPER	C/R SCRAPER		
.375	.625	.125	BR1165-E0		793094	\$4.19	--	-----		\$....	--	-----			\$....
.500	.750	.126	AR0437-E0		793046	4.79	--	-----		....	--	-----			....
.500	1.000	--	-----			....	--	-----		....	.281	504260	3172527		6.87
.563	.812	.126	BR1043-E0		793086	7.09	--	-----		....	--	-----			....
.625	.875	.125	AR0633-E0		793052	3.24	--	-----		....	--	-----			....
.625	.938	.189	AR8081-E0		793310	3.63	--	-----		....	--	-----			....
.625	1.125	--	-----			....	.312	J-0625	740006	3.64	.281	504261	3172528		7.21
.687	.937	.126	AR7285-E0		793268	7.02	--	-----		....	--	-----			....
.750	1.000	.125	AR0888-E0		793072	3.87	--	-----		....	--	-----			....
.750	1.062	.181	AR0893-E0*		793074	4.73	--	-----		....	--	-----			....
.750	1.124	.189	AR0897-E0		793076	4.15	--	-----		....	--	-----			....
.750	1.250	--	-----			....	--	-----		....	.281	504262	3172529		7.12
.750	1.250	.252	AR0913-E0		793078	4.39	--	-----		....	--	-----			....
.875	1.125	.125	AR1168-E0		793098	3.97	.156	J-0875	740012	14.72	--	-----			....
.875	1.250	.187	AR1172-E0		793100	3.58	--	-----		....	--	-----			....
.875	1.375	--	-----			....	--	-----		....	.281	504263	317253		9.34
.997	1.250	.157	AR7277-F0*		793266	5.92	--	-----		....	--	-----			....
1.000	1.250	.126	AR1399-F0		793112	2.33	--	-----		....	--	-----			....
1.000	1.375	.187	AR1402-F0		793114	3.41	--	-----		....	--	-----			....
1.000	1.500	.189	AR1418-E0		793116	4.12	.312	J-1000	740015	3.82	.281	504264	3172531		7.60
1.000	1.624	.252	AR1430-E0		793118	4.11	--	-----		....	--	-----			....
1.062	1.437	.187	AR1490-E0		793124	8.66	--	-----		....	--	-----			....
1.063	1.499	.189	AR1491-E0		793126	2.46	--	-----		....	--	-----			....
1.125	1.375	.125	AR1588-F0		793134	5.22	--	-----		....	--	-----			....
1.125	1.499	.187	AR1592-E0		793136	5.39	--	-----		....	--	-----			....
1.125	1.561	.252	AR7108-E0		793256	4.60	--	-----		....	--	-----			....
1.125	1.624	.252	AR1598-E0		793142	4.35	.312	J-1125	740018	4.69	.281	504265	3172532		8.98
1.187	1.562	.189	BR1044-E0		793088	6.69	--	-----		....	--	-----			....
1.187	1.627	.252	AR1774-F0*		793144	4.60	--	-----		....	--	-----			....
1.250	1.500	.126	AR1815-E0		793146	7.77	--	-----		....	--	-----			....
1.250	1.686	.189	AR1818-F0		793150	2.13	--	-----		....	--	-----			....
1.250	1.752	.252	AR1826-E0		793152	4.03	.312	J-1250	740021	4.92	.281	504266	3172533		10.17
1.250	1.874	.252	AR1832-E1		793156	6.22	--	-----		....	--	-----			....
1.312	1.812	.250	AR1947-E0		793162	5.40	--	-----		....	--	-----			....
1.375	1.625	.126	AR1994-F0		793164	4.35	--	-----		....	--	-----			....
1.375	1.750	.187	AR1995-E0		793166	2.82	--	-----		....	--	-----			....
1.375	1.874	.252	AR1997-E0		793168	6.81	--	-----		....	--	-----			....
1.375	1.875	--	-----			....	.312	J-1375	740087	5.15	--	-----			....
1.500	1.874	.252	AR7901-E0		793300	6.67	--	-----		....	--	-----			....
1.500	1.875	.189	AR2263-E0		793184	2.27	--	-----		....	--	-----			....
1.500	1.983	--	-----			....	--	-----		....	--	-----			....
1.500	2.000	.252	AR2269-F0		793190	3.93	--	-----		....	.281	504268	3172535		11.12
1.500	2.000	--	-----			....	.312	J-1500	740024	5.46	--	-----			....
1.500	2.250	--	-----			....	.375	110016000A	740027	26.10	--	-----			....
1.563	2.502	.252	AR8747-E0		793340	10.17	--	-----		....	--	-----			....
1.625	2.000	--	-----			....	--	-----		....	--	-----			....
1.625	2.125	.252	AR7270-E0		793264	2.46	--	-----		....	--	-----			....
1.688	2.187	--	-----			....	--	-----		....	--	-----			....
1.750	2.125	.189	AR2573-E0		793200	6.82	--	-----		....	--	-----			....
1.750	2.250	.252	AR2575-F0		793202	6.16	.312	J-1750	740031	5.77	.281	504270	3172537		11.78
1.750	2.374	.252	AR6868-E0		793244	8.69	--	-----		....	--	-----			....
1.750	2.437	--	-----			....	.375	110021000A	740033	27.51	--	-----			....
1.750	2.500	--	-----			....	.375	110018000A	740029	20.46	--	-----			....
1.750	2.623	.252	AR7383-E0		793276	12.83	--	-----		....	--	-----			....

*WPC SEALS WHICH HAVE A RUBBER COATING ON METAL COVER



Pkg. Qty. 5							Pkg. Qty. 5				Pkg. Qty. 1 Date: 2000			
Shaft Size Inch	Bore Size Inch	Seal Depth Inch	*WPC & WPB Seal Number WPC WPB	Our Sequence Number	Per Each	Seal Depth Inch	Seal Number CANNED WIPER	Our Sequence Number	Per Each	Seal Depth Inch	C/R Scraper Number C/R SCRAPER	Our Sequence Number	Per Each	
1.875	2.250	.187	AR2746-E0	793206	\$8.01	--	----		\$....	--	----		\$....	
1.875	2.375	--	-----		....	--	----		....	.281	504271	3172538	12.75
1.875	2.502	.250	AR7241-E0	793262	4.78	--	----		....	--	----		....
2.000	2.375	.189	AR2905-F0	793208	5.35	--	----		....	--	----		....
2.000	2.502	.252	AR2908-E0	793210	8.69	.312	J-2000	740036	6.39	.281	504272	3172539	12.55	
2.000	2.623	.252	AR2912-F0	793212	13.01	--	----		....	.281	504273	317254	13.59
2.000	2.686	--	-----		....	.375	110026000A	740039	35.43	--	----		....
2.000	2.750	--	-----		....	.375	110027000A	740040	27.91	--	----		....
2.125	2.500	.187	AR6830-E0	793242	4.12	--	----		....	--	----		....
2.250	2.625	.250	AR3116-E0	793218	7.27	--	----		....	--	----		....
2.250	2.750	.252	AR3117-E0	793220	4.39	.250	110029000A	740100	30.03	.281	504275	3172542	14.61	
2.250	2.750	--	-----		....	.312	J-2250	740042	7.15	--	----		....
2.250	3.000	--	-----		....	.375	110032000A	740045	31.40	--	----		....
2.375	2.875	--	-----		....	.312	J-2375	740048	25.74	--	----		....
2.375	3.125	--	-----		....	.375	110036000A	740053	25.94	--	----		....
2.500	3.000	.252	AR3329-E0	793226	8.74	.312	J-2500	740054	8.50	.281	504277	3172544	15.13	
2.500	3.125	.252	AR8532-E0	793328	10.84	.250	110038000A	740056	17.08	--	----		....
2.500	3.250	--	-----		....	.375	110039000A	740057	34.54	--	----		....
2.625	3.125	.250	AR6989-E0	793250	31.09	--	----		....	--	----		....
2.660	3.250	.374	AR6917-E0	793248	9.63	--	----		....	--	----		....
2.750	3.125	.187	AR3473-E0	793228	15.63	--	----		....	--	----		....
2.750	3.250	--	-----		....	.312	J-2750	740060	9.90	.281	504279	3172546	16.26
2.750	3.251	.252	AR3475-F0	793230	10.49	--	----		....	--	----		....
2.750	3.500	--	-----		....	.250	110043000A	740124	28.56	--	----		....
2.750	3.500	--	-----		....	.500	110044000A	740127	50.45	--	----		....
2.750	3.750	--	-----		....	.500	110045000A	740063	41.91	--	----		....
2.750	3.752	.374	AR7302-E0	793270	14.56	--	----		....	--	----		....
3.000	3.500	.250	AR3647-E0	793232	4.08	.312	J--3000	740066	10.80	.281	504281	3172548	18.00	
3.000	3.752	.252	AR8574-E0	793336	8.42	--	----		....	--	----		....
3.000	4.000	--	-----		....	.500	110049000A	740069	45.92	--	----		....
3.250	3.875	--	-----		....	.312	J-3250	740071	12.22	.328	504283	317255	22.68
3.250	4.250	--	-----		....	.500	110054000A	740072	46.89	--	----		....
3.500	4.000	--	-----		....	.312	110056000A	740139	21.13	--	----		....
3.500	4.003	.250	AR3884-E0	793234	19.17	--	----		....	--	----		....
3.500	4.125	--	-----		....	.312	J-3500	740074	12.58	.328	504285	3172552	22.74
3.500	4.250	--	-----		....	.250	110059000A	740142	53.75	--	----		....
3.500	4.500	--	-----		....	.500	110060000A	740075	54.66	--	----		....
3.750	4.375	--	-----		....	.312	J-3750	740106	14.77	.328	504287	3172554	25.23
3.750	4.750	--	-----		....	.500	110064000A	740145	46.81	--	----		....
4.000	4.625	--	-----		....	.312	J-4000	740109	16.22	.328	504289	3172556	27.45
4.000	4.750	--	-----		....	.312	110067000A	740112	76.39	--	----		....
4.250	4.875	--	-----		....	--	----		....	.328	504291	3172558	46.21
4.250	5.250	--	-----		....	.500	110072000A	740148	77.04	--	----		....
4.375	5.250	--	-----		....	.312	110073000A	740151	91.24	--	----		....
4.500	5.125	--	-----		....	.312	J-4500	740079	20.14	.328	504293	3172560	45.76
4.750	5.750	--	-----		....	.500	110080000A	740157	84.01	--	----		....
5.000	5.625	--	-----		....	.312	J-5000	740080	23.82	--	----		....
5.000	5.750	--	-----		....	.312	110082000A	740081	82.01	--	----		....
5.500	6.127	--	-----		....	--	----		....	--	----		....
6.000	7.000	--	-----		....	.500	110088000A	740163	151.68	--	----		....



Part No. is D-1500 for 1-1/2 shaft size

Part# is BT-1500 for 1-1/2 shaft size

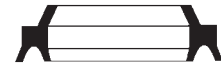
5 IN A PKG.

D WIPERS

BT WIPERS

For Rod Size Inches	Wiper O.D. Inches	Wiper Base Thickness	Wiper Shoulder Diam. Inches	Our Sequence Number	Parker Molythane Wiper Each	Our Sequence Number	Urethane Wiper Each	Our Sequence Number	Hi-Temp Wiper Each	Wiper O.D. Inches	Wiper Base Thickness	Our Sequence Number	Baum Urethane Wiper Each
1/4	1/2	1/8	.410	813598	\$3.37	----	\$....	----	\$....	--	--	----	\$....
1/2	3/4	1/8	.660	----	....	----	....	813601	2.58	--	--	----	....
5/8	7/8	1/8	.785	----	....	----	....	----	....	7/8	5/32	CB2005	4.68
3/4	1-1/8	3/16	.995	----	....	746948	1.50	813607	1.80	1-1/8	3/16	CB2010	4.68
7/8	1-1/4	3/16	1.120	----	....	----	....	----	....	1-1/4	3/16	CB2015	4.68
1	1-3/8	3/16	1.245	----	....	746950	1.62	813611	2.67	1-3/8	3/16	CB2020	5.15
1-1/8	1-1/2	3/16	1.370	----	....	746952	1.76	813613	1.79	1-1/2	3/16	CB2025	5.18
1-1/4	1-5/8	3/16	1.495	----	....	746954	1.88	813615	3.17	1-5/8	3/16	CB2030	5.18
1-3/8	1-3/4	3/16	1.620	----	....	746956	2.04	813617	3.48	1-3/4	3/16	CB2035	5.22
1-1/2	1-7/8	3/16	1.745	----	....	746958	2.36	813619	2.30	1-7/8	3/16	CB2040	5.40
1-5/8	2	3/16	1.870	----	....	----	....	813621	3.95	--	--	----	....
1-3/4	2-1/8	3/16	1.995	----	....	746962	2.35	----	....	2-1/8	3/16	CB2045	5.62
1-7/8	2-1/4	3/16	2.120	813624	7.03	----	....	----	....	--	--	----	....
2	2-1/2	1/4	2.327	----	....	746964	2.87	813627	2.98	--	--	----	....
2-1/4	2-3/4	1/4	2.577	----	....	746966	3.09	813631	5.09	2-5/8	3/16	CB2060	6.47
2-3/8	2-7/8	1/4	2.702	----	....	----	....	813633	6.69	--	--	----	....
2-1/2	3	1/4	2.827	----	....	746970	3.28	813635	3.40	3	1/4	CB2075	7.63
2-5/8	3-1/8	1/4	2.952	----	....	----	....	----	....	3-1/8	1/4	CB2080	7.90
2-3/4	3-1/4	1/4	3.077	----	....	746974	3.85	813641	6.43	3-1/4	1/4	CB2090	8.30
2-7/8	3-3/8	1/4	3.202	813642	6.75	----	....	813643	8.77	--	--	----	....
3	3-1/2	1/4	3.327	----	....	746976	4.57	813645	7.59	3-1/2	1/4	CB2100	9.24
3-1/8	3-5/8	1/4	3.452	----	....	746977	13.34	----	....	--	--	----	....
3-1/4	3-3/4	1/4	3.577	----	....	746978	5.06	----	....	3-3/4	1/4	CB2115	10.24
3-1/2	4	1/4	3.827	----	....	746980	5.37	----	....	4	1/4	CB2125	10.42
3-5/8	4-1/8	1/4	3.952	----	....	----	....	----	....	4-1/8	1/4	CB2135	11.02
3-3/4	4-1/4	1/4	4.077	----	....	----	....	813657	10.42	4-1/4	1/4	CB2140	11.17
3-7/8	4-3/8	1/4	4.202	813658	13.45	----	....	----	....	--	--	----	....
4	4-1/2	1/4	4.327	----	....	746982	7.02	----	....	4-1/2	1/4	CB2145	11.56
4-1/8	4-5/8	1/4	4.452	813662	10.31	----	....	----	....	--	--	----	....
4-1/4	4-3/4	1/4	4.577	813664	10.47	----	....	----	....	4-3/4	1/4	CB2150	12.36
4-3/8	4-7/8	1/4	4.702	813666	13.86	----	....	----	....	--	--	----	....
4-1/2	5-1/4	3/8	4.993	----	....	746986	12.57	----	....	5-1/4	1/4	CB2155	12.96
4-5/8	5-3/8	3/8	5.118	813670	17.90	----	....	----	....	--	--	----	....
4-3/4	5-1/2	3/8	5.243	813672	18.63	746988	13.19	----	....	5-1/2	1/4	CB2160	13.54
4-7/8	5-5/8	3/8	5.368	813674	19.72	----	....	----	....	--	--	----	....
5	5-3/4	3/8	5.493	----	....	746990	14.46	----	....	--	--	----	....
5-1/8	5-7/8	3/8	5.618	813681	21.86	----	....	----	....	--	--	----	....
5-1/4	6	3/8	5.743	----	....	746992	34.61	----	....	--	--	----	....
5-3/8	6-1/8	3/8	5.868	813683	23.99	----	....	----	....	--	--	----	....
5-1/2	6-1/4	3/8	5.993	----	....	746994	17.47	----	....	6	1/4	CB2175	18.04
5-5/8	6-3/8	3/8	6.118	813686	25.75	----	....	----	....	--	--	----	....
5-3/4	6-1/2	3/8	6.243	813688	26.38	----	....	----	....	--	--	----	....
5-7/8	6-5/8	3/8	6.368	813689	26.97	----	....	----	....	--	--	----	....
6	6-3/4	3/8	6.493	----	....	746998	19.15	----	....	6-1/2	1/4	CB2180	19.05
6-1/4	7	3/8	6.743	813692	28.42	----	....	----	....	--	--	----	....
6-1/2	7-1/4	3/8	6.993	813694	29.65	747002	23.97	----	....	--	--	----	....
6-3/4	7-1/2	3/8	7.243	813698	30.87	----	....	----	....	--	--	----	....
7	7-3/4	3/8	7.493	813700	32.18	----	....	----	....	--	--	----	....
7-1/4	8	3/8	7.743	813702	35.69	----	....	----	....	--	--	----	....
7-1/2	8-1/4	3/8	7.993	----	....	747008	50.71	----	....	--	--	----	....
7-3/4	8-1/2	3/8	8.243	813706	37.83	----	....	----	....	--	--	----	....
8	8-3/4	3/8	8.493	----	....	747010	58.05	----	....	--	--	----	....
9	9-3/4	3/8	9.493	813710	43.25	----	....	----	....	--	--	----	....
10	11	1/2	10.659	----	....	747012	85.94	----	....	--	--	----	....

Qty. Disc: 2 pkgs. 5%, 5 pkgs. 15%, 10 pkgs. 25%, 25 pkgs. 30%, 50 pkgs. 35%, 100 pkgs. 40% EXCEPT Parker Molythane D Wipers goes only to 10 pkg quantity discounts



H WIPER URETHANE DOUBLE-LIP ROD WIPERS FOR CYLINDERS

Part No. is AN-1500 for 1-1/2 shaft size

Part No. is H-1500 for 1-1/2 shaft size

5 IN A PKG.

AN WIPERS

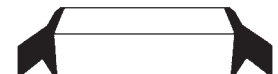
H WIPERS

For Rod Size Inches	Wiper O.D. Inches	Wiper Base Thick-ness Inches	Wiper Shoulder Diam. Inches	Our Sequence Number	Parker Molythane Wiper Each	Our Sequence Number	Urethane Wiper Each	Our Sequence Number	Hi-Temp Wiper Each	Wiper O.D. Inches	Wiper Base Thick. Inches	Wiper Shoulder Diam. Inches	Urethane Wiper Number	Our Sequence Number	Per Each
5/8	.891	.104	.748	----	....	....	\$....	----	\$....	7/8	.194	.745	H-0625	814660	\$1.13
3/4	1.016	.104	.873	----	....	746756	1.29	----	....	1-1/8	.174	.870	H-0750	814664	1.13
13/16	1.090	.104	.938	813437	2.07	----	....	----	....	--	...	...	--	----	....
1	1.278	.104	1.126	----	....	746760	1.45	813447	1.43	1-3/8	.212	1.135	H-1000	814672	1.16
1-1/8	1.403	.104	1.251	----	....	746762	1.53	----	....	1-1/2	.212	1.260	H-1125	814676	1.31
1-1/4	1.528	.104	1.376	----	....	746764	1.72	----	....	1-5/8	.212	1.385	H-1250	814680	1.40
1-3/8	1.684	.104	1.519	----	....	746766	1.83	813467	2.88	1-3/4	.212	1.510	H-1375	814684	1.52
1-1/2	1.809	.104	1.645	----	....	746768	2.04	----	....	1-7/8	.212	1.635	H-1500	814688	1.58
1-5/8	1.934	.104	1.770	813472	4.74	746769	3.16	----	....	--	...	...	--	----	....
1-3/4	2.059	.104	1.895	----	....	746770	2.26	----	....	2-1/8	.212	1.885	H-1750	814692	1.79
2	2.309	.104	2.145	----	....	746776	1.40	----	....	2-3/8	.212	2.135	H-2000	814696	2.33
2-1/4	2.559	.104	2.395	----	....	746780	1.99	----	....	2-3/4	.275	2.385	H-2250	814700	2.57
2-3/8	2.684	.104	2.520	----	....	746782	5.17	----	....	--	...	...	--	----	....
2-1/2	2.809	.104	2.645	----	....	746784	2.83	813495	4.87	3	.275	2.635	H-2500	814704	2.74
2-5/8	2.996	.119	2.801	----	....	----	....	813497	8.33	--	...	...	--	----	....
2-3/4	3.121	.119	2.926	----	....	----	....	813501	8.54	--	...	...	--	----	....
2-7/8	3.246	.119	3.051	----	....	746783	6.96	----	....	--	...	...	--	----	....
3	3.372	.119	3.177	----	....	746792	3.84	813505	7.60	3-1/2	.275	3.135	H-3000	814712	3.07
3-1/8	3.497	.119	3.302	----	....	746798	3.72	----	....	--	...	...	--	----	....
3-1/4	3.622	.119	3.427	----	....	746799	4.46	----	....	--	...	...	--	----	....
3-3/8	3.747	.119	3.552	----	....	746800	8.29	----	....	--	...	...	--	----	....
3-1/2	3.872	.119	3.677	----	....	746803	4.93	----	....	4	.275	3.635	H-3500	814720	3.61
3-5/8	3.997	.119	3.802	813514	8.44	----	....	----	....	--	...	...	--	----	....
3-3/4	4.122	.119	3.927	----	....	746804	7.44	----	....	4-1/2	.275	3.855	H-3750	814724	3.91
3-7/8	4.246	.119	4.052	----	....	813518	6.82	----	....	--	...	...	--	----	....
4	4.434	.135	4.208	----	....	746808	5.32	----	....	4-1/2	.275	4.135	H-4000	814728	4.62
4-1/8	4.560	.135	4.334	813522	10.71	----	....	----	....	--	...	...	--	----	....
4-3/8	4.810	.135	4.584	----	....	746811	10.39	----	....	--	...	...	--	----	....
4-1/2	4.934	.135	4.708	813528	7.61	----	....	----	....	5	.275	4.635	H-4500	814736	6.15
4-3/4	5.184	.135	4.958	----	....	----	....	----	....	5-1/4	.275	4.800	H-4750	814738	9.79
4-7/8	5.310	.135	5.084	813534	14.05	----	....	----	....	--	...	...	--	----	....
5	5.434	.135	5.208	----	....	746815	12.45	----	....	5-1/2	.275	5.135	H-5000	814744	9.13
5-1/8	5.560	.135	5.334	813538	14.98	----	....	----	....	--	...	...	--	----	....
5-1/4	5.684	.135	5.458	----	....	746828	9.69	----	....	--	...	...	--	----	....
5-3/8	5.810	.135	5.584	813542	15.77	----	....	----	....	--	...	...	--	----	....
5-1/2	5.934	.135	5.708	----	....	----	....	----	....	6	.275	5.635	H-5500	814746	10.44
5-5/8	6.122	.151	5.864	813546	16.60	----	....	----	....	--	...	...	--	----	....
5-3/4	6.246	.151	5.990	813548	16.92	----	....	----	....	--	...	...	--	----	....
5-7/8	6.372	.151	6.114	813550	17.37	----	....	----	....	--	...	...	--	----	....
6	6.496	.151	6.240	----	....	746832	15.83	----	....	--	...	...	--	----	....
6-1/4	6.746	.151	6.490	813554	17.90	----	....	----	....	--	...	...	--	----	....
6-1/2	6.996	.151	6.740	813556	18.45	----	....	----	....	--	...	...	--	----	....
6-3/4	7.246	.151	6.990	813558	18.85	----	....	----	....	--	...	...	--	----	....
7	7.496	.151	7.240	----	....	746833	15.41	----	....	--	...	...	--	----	....
7-1/4	7.746	.151	7.490	813562	21.28	----	....	----	....	--	...	...	--	----	....
7-1/2	7.997	.151	7.740	813564	22.19	----	....	----	....	--	...	...	--	----	....
7-3/4	8.247	.151	7.990	813566	23.10	----	....	----	....	--	...	...	--	----	....
9	9.497	.151	9.240	813572	26.88	----	....	----	....	--	...	...	--	----	....
10	10.497	.151	10.240	813574	30.87	----	....	----	....	--	...	...	--	----	....

Qty. Disc: 2 pkgs. 5%, 5 pkgs. 15%, 10 pkgs. 25%, 25 pkgs. 30%, 50 pkgs. 35%, 100 pkgs. 40%

K WIPER URETHANE DOUBLE-LIP ROD WIPERS FOR CYLINDERS

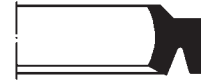
Part No. is K-1500 for 1-1/2 shaft size



For Rod Size Inches	Wiper O.D. Inches	Wiper Base Thick. Inches	Wiper Shoulder Diam. Inches	Urethane Wiper Number	Our Sequence Number	Per Each	For Rod Size Inches	Wiper O.D. Inches	Wiper Base Thick. Inches	Wiper Shoulder Diam. Inches	Urethane Wiper Number	Our Sequence Number	Per Each
3/4	1-1/8	.190	.832	K-0750	814782	\$1.13	2-1/4	2-3/4	.250	2.407	K-2250	814818	\$2.57
1	1-3/8	.190	1.082	K-1000	814790	1.16	2-1/2	3	.250	2.657	K-2500	814822	2.80
1-1/8	1-1/2	.190	1.207	K-1125	814794	1.31	3	3-1/2	.250	3.157	K-3000	814830	2.95
1-1/4	1-5/8	.190	1.332	K-1250	814798	1.40	3-1/2	4	.250	3.657	K-3500	814838	3.61
1-3/8	1-3/4	.190	1.457	K-1375	814802	1.46	4	4-1/2	.250	4.157	K-4000	814846	4.62
1-1/2	1-7/8	.190	1.582	K-1500	814806	1.58	4-1/2	5	.250	4.657	K-4500	814854	6.15
1-3/4	2-1/8	.190	1.832	K-1750	814810	1.79	5	5-1/2	.250	5.157	K-5000	814862	6.38
2	2-3/8	.190	2.082	K-2000	814814	2.33							



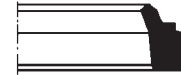
Piston U-Seals



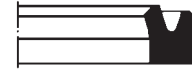
Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
H WIPER SCRAPER AY-EURO.					
18	24	4.8	AY-1080-P5008	847750	\$7.21



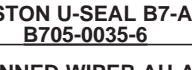
Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
PISTON U-SEAL C2-EURO.					
110	125	10.0	C2-C025-N3584	847765	\$29.99



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
SCRAPER WIPER A1-EURO.					
18	26	7.0	A1-1035-N3587	847711	\$4.73
25	33	7.0	A1-2025-N3584	847715	8.18
28	36	7.0	A1-2035-N3587	847716	8.69
40	48	7.0	A1-4005-N3587	847723	9.52



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
PISTON U-SEAL B7-EURO.					
40	50	7.3	B7-5040-P5008	847780	\$22.49
70	80	6.7	B7-8010-P5008	847783	24.49
105	125	14.5	B7-C215-P5008	847786	25.52
135	160	18.2	B7-G035-P5008	847787	76.67



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
PISTON U-SEAL B7-ASIAN					
35	45	6.0	B705-0035-6	847791	\$21.55



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
CANNED WIPER AH-ASIAN					
30	42	6.0	AH06-0030-69	847741	\$27.48



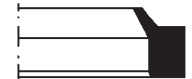
Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
CANNED WIPER J-ASIAN					
45	57	7.0	J06-0045-7	847612	\$16.11
50	62	7.0	J06-0050-7	847613	40.57



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
CANNED WIPER AM-EURO.					
18	28	10.0	AM-1080-Z5053	847642	\$5.04
30	40	8.0	AM-3010-Z5053	847646	6.25
32	45	8.0	AM-3020-Z5053	847647	33.50
35	45	7/10	AM-3050-Z5053	847648	6.65
40	50	10.0	AM-4005-Z5053	847651	7.15
50	65	8.0	AM-5010-Z5053	847654	31.25



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
STD LOADED U-SEAL SA-EURO.					
10	18	4.5	SA-0301016	847810	\$12.39
40	60	10.0	SA-0304021	847816	26.38



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
D WIPER-RUBBER A5-EURO.					
20	28	7.0	A5-2010-N3587	847690	\$8.37
22	30	7.0	A5-2014-N3587	847691	8.48
30	38	7.0	A5-3002-N3587	847694	9.43
36	44	7.5	A5-3020-N3587	847697	7.40

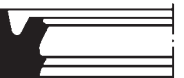
Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD SEAL LOADED U-SEAL TYPE BA-EURO.					
6	14	5.7	BA-0052-00030	847850	\$6.49
20	30	7.3	BA-2019-00030	847859	6.16
25	33	5.7	BA-2169-00030	847863	6.16
28	35	6.5	BA-2262-00030	847867	17.79
30	45	8.0	BA-3028-00030	847872	22.65
32	42	7.3	BA-3105-00030	847873	6.62
40	48	5.7	BA-4006-00030	847877	14.27
40	55	11.4	BA-4051-00030	847881	8.43
45	55	7.3	BA-4168-00030	847882	20.87
80	100	15.0	BA-8060-00030	847902	18.13



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD U-SEAL Q3-EURO.					
40	50	9.0	Q3-4009-Z5002	848023	\$7.50



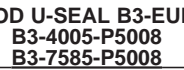
Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD U-SEAL C1-EURO.					
12	20	5.5	C1-1033-N3571	847980	\$6.07
25	35	5.0	C1-2065-N3571	847998	18.27
28	36	5.5	C1-2085-N3571	848001	10.59
28	40	8.5	C1-2095-N3571	848003	8.19
30	38	5.5	C1-3005-N3571	848004	10.24
30	38	8.0	C1-3010-N3571	848005	12.11
40	48	5.5	C1-4005-N3571	848009	19.76
42	52	7.0	C1-4025-N3571	848011	35.93



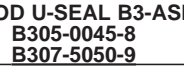
Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD U-SEAL BS-EURO.					
20	30	7.3	BS-2030-P5008	848030	\$9.52
25	35	7.3	BS-2535-P5008	848032	6.16
50	65	11.4	BS-5065-P5008	848041	9.45
70	80	12.0	BS-7080-P5008	848044	9.57



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD U-SEAL BS-ASIAN					
41	51	10.0	BS05-0041-10	848055	\$6.95



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD U-SEAL B3-EURO.					
40	50	10.0	B3-4005-P5008	848065	\$7.50
75	85	7.0	B3-7585-P5008	848068	15.48



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD U-SEAL B3-ASIAN					
45	55	8.0	B305-0045-8	848086	\$7.50
50	65	9.0	B307-5050-9	848090	8.28



Inside Diam. MM	Out-side Diam. MM	Height MM	Part Number	Our Sequence Number	Per Each
ROD U-SEAL BD-EURO.					
90	105	11.4	BD-0090-00042	847831	\$35.91

PLEASE CALL FOR OTHER SIZES.
OVER 2,000 ADDITIONAL SIZES AVAILABLE