CR Profile, PTFE Rod Cap Seal to Retrofit O-ring Glands

The Parker CR profile is a cap seal with anti-extrusion, low friction and low wear features. The seal is a bi-directional rod seal for use in pneumatic and low to medium duty applications. Because of its short assembly length, it requires minimal space in the rod housing. The three CR profiles will fit into standard o-ring grooves without modification. Parker's CR profiles will retrofit non-Parker seals of similar design.

- CR0 fits a standard o-ring groove
- CR1 fits an o-ring groove designed for one back-up ring
- CR2 fits an o-ring groove designed for two back-up rings

The CR profile may be ordered without the energizer by omitting the energizer code. See part number nomenclature.

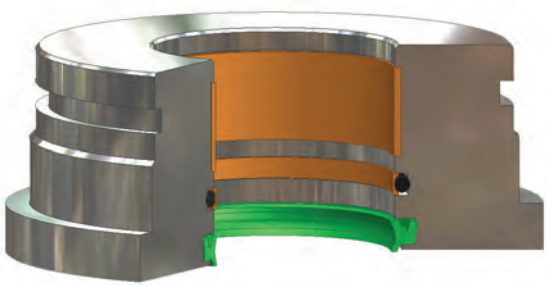
Technical Data

Standard Materials*		Temperature Range	Pressure Range†	Surface Speed
Cap				
0401	40% bronze filled PTFE	-200°F to 575°F (-129°C to 302°C)	5000 psi (344 bar)	< 13 ft/s (4 m/sec)
Energizer				
A	70A Nitrile	-30°F to 250°F (-34°C to 121°C)		

CR Cross-Section

***Alternate Materials:** For pneumatic applications, compound 0102 is recommended. For applications that may require an alternate material, please see Section 3 for alternate PTFE (Table 3-4) and energizer (Table 3-5) materials.

†**Pressure Range** without wear rings (see Table 2-4, page 2-5).



CR installed in Rod Gland

Parker Hannifin Corporation
Engineered Polymer Systems Division
Phone: 801 972 3000

Technical Data (Continued)

Options

Notched side walls: Notches can be added to the side walls of the PTFE cap. This can help to optimize the seal's response to fluid pressure. Notched side walls help ensure that fluid pressure fills the cavity between the side face of the seal and the side face of the seal gland. Consult your local Parker Seal representative for the availability and cost to add side notches to the CR profile.

N = Notched walls

Part Number Nomenclature — CR Profile

Table 5-24. CR Profile — Inch

0	4	0	1	CR	0	-	2	1	0	A	

Seal Compound
4-Digit Material Code
Example:
0401 = 40% Bronze-filled PTFE

Profile

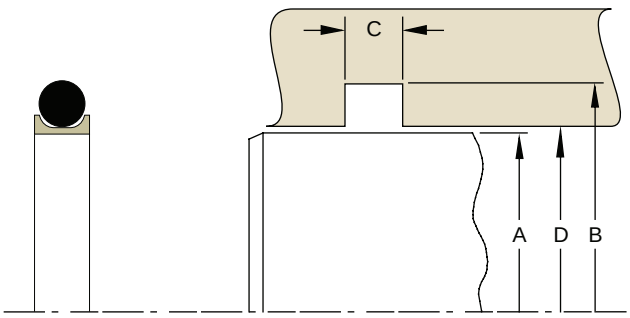
Groove Width
0 = No Back-up ring
1 = 1 Back-up Ring Groove
2 = 2 Back-up Ring Groove

Groove Size
(O-ring Dash Size)

Energizer Compound Code
Example: A = 70A Nitrile
Omit = No energizer
See Table 3-5 on page 3-18.

Option:
"N" = Notched walls

Gland Dimensions — CR Profile



Please refer to Engineering Section 2, Page 2-8 for surface finish and additional hardware considerations.

Table 5-25. CR Profile — Inch

A Rod Diameter	B Groove Diameter	C Groove Width (CR0)	C Groove Width (CR1)	C Groove Width (CR2)	D Throat Diameter*	O-ring Dash Number	CR Part Number (X = Groove Width of 0, 1 or 2)
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+001/-.000		
0.125	0.235	0.093	0.138	0.205	0.126	006	**0401CR X-006A**
0.156	0.266	0.093	0.138	0.205	0.157	007	**0401CR X-007A**
0.187	0.297	0.093	0.138	0.205	0.188	008	**0401CR X-008A**
0.219	0.329	0.093	0.138	0.205	0.220	009	**0401CR X-009A**
0.250	0.360	0.093	0.138	0.205	0.251	010	**0401CR X-010A**
0.312	0.422	0.093	0.138	0.205	0.313	011	**0401CR X-011A**
0.375	0.485	0.093	0.138	0.205	0.376	012	**0401CR X-012A**

*If used with wear rings, refer to wear ring throat diameter, see Section 9.
For custom groove calculations, see Appendix C.

09/01/07

Parker Hannifin Corporation
Engineered Polymer Systems Division
Phone: 801 972 3000

Table 5-25. CR Gland Dimensions — Inch (Continued)

A Rod Diameter	B Groove Diameter	C Groove Width (CR0)	C Groove Width (CR1)	C Groove Width (CR2)	D Throat Diameter*	O-ring Dash Number	CR Part Number (X = Groove Width of 0, 1 or 2)
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+001/-.000		
0.437	0.547	0.093	0.138	0.205	0.438	013	**0401CR X-013A**
0.500	0.610	0.093	0.138	0.205	0.501	014	**0401CR X-014A**
0.562	0.672	0.093	0.138	0.205	0.563	015	**0401CR X-015A**
0.625	0.735	0.093	0.138	0.205	0.626	016	**0401CR X-016A**
0.687	0.797	0.093	0.138	0.205	0.688	017	**0401CR X-017A**
0.750	0.860	0.093	0.138	0.205	0.751	018	**0401CR X-018A**
0.812	0.922	0.093	0.138	0.205	0.813	019	**0401CR X-019A**
0.875	0.985	0.093	0.138	0.205	0.876	020	**0401CR X-020A**
0.937	1.047	0.093	0.138	0.205	0.938	021	**0401CR X-021A**
1.000	1.110	0.093	0.138	0.205	1.001	022	**0401CR X-022A**
1.062	1.172	0.093	0.138	0.205	1.063	023	**0401CR X-023A**
1.125	1.235	0.093	0.138	0.205	1.126	024	**0401CR X-024A**
1.187	1.297	0.093	0.138	0.205	1.188	025	**0401CR X-025A**
1.250	1.360	0.093	0.138	0.205	1.251	026	**0401CR X-026A**
1.312	1.422	0.093	0.138	0.205	1.313	027	**0401CR X-027A**
1.375	1.485	0.093	0.138	0.205	1.376	028	**0401CR X-028A**
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.002/-.000		
0.125	0.301	0.140	0.171	0.238	0.126	104	**0401CR X-104A**
0.156	0.332	0.140	0.171	0.238	0.157	105	**0401CR X-105A**
0.187	0.363	0.140	0.171	0.238	0.188	106	**0401CR X-106A**
0.218	0.394	0.140	0.171	0.238	0.219	107	**0401CR X-107A**
0.250	0.426	0.140	0.171	0.238	0.251	108	**0401CR X-108A**
0.312	0.488	0.140	0.171	0.238	0.313	109	**0401CR X-109A**
0.375	0.551	0.140	0.171	0.238	0.376	110	**0401CR X-110A**
0.437	0.613	0.140	0.171	0.238	0.438	111	**0401CR X-111A**
0.500	0.676	0.140	0.171	0.238	0.501	112	**0401CR X-112A**
0.562	0.738	0.140	0.171	0.238	0.563	113	**0401CR X-113A**
0.625	0.801	0.140	0.171	0.238	0.626	114	**0401CR X-114A**
0.687	0.863	0.140	0.171	0.238	0.688	115	**0401CR X-115A**
0.750	0.926	0.140	0.171	0.238	0.751	116	**0401CR X-116A**
0.812	0.988	0.140	0.171	0.238	0.813	117	**0401CR X-117A**
0.875	1.051	0.140	0.171	0.238	0.876	118	**0401CR X-118A**
0.937	1.113	0.140	0.171	0.238	0.938	119	**0401CR X-119A**
1.000	1.176	0.140	0.171	0.238	1.001	120	**0401CR X-120A**
1.062	1.238	0.140	0.171	0.238	1.063	121	**0401CR X-121A**
1.125	1.301	0.140	0.171	0.238	1.126	122	**0401CR X-122A**
1.187	1.363	0.140	0.171	0.238	1.188	123	**0401CR X-123A**
1.250	1.426	0.140	0.171	0.238	1.251	124	**0401CR X-124A**
1.312	1.488	0.140	0.171	0.238	1.313	125	**0401CR X-125A**
1.375	1.551	0.140	0.171	0.238	1.376	126	**0401CR X-126A**
1.437	1.613	0.140	0.171	0.238	1.439	127	**0401CR X-127A**
1.500	1.676	0.140	0.171	0.238	1.502	128	**0401CR X-128A**
1.562	1.738	0.140	0.171	0.238	1.564	129	**0401CR X-129A**
1.625	1.801	0.140	0.171	0.238	1.627	130	**0401CR X-130A**
1.687	1.863	0.140	0.171	0.238	1.689	131	**0401CR X-131A**
1.750	1.926	0.140	0.171	0.238	1.752	132	**0401CR X-132A**

*If used with wear rings, refer to wear ring throat diameter, see Section 9.
For custom groove calculations, see Appendix C.

Parker Hannifin Corporation
Engineered Polymer Systems Division
Phone: 801 972 3000

Table 5-25. CR Gland Dimensions — Inch (Continued)

A Rod Diameter	B Groove Diameter	C Groove Width (CR0)	C Groove Width (CR1)	C Groove Width (CR2)	D Throat Diameter*	O-ring Dash Number	CR Part Number (X = Groove Width of 0, 1 or 2)
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.003/-.000		
1.812	1.988	0.140	0.171	0.238	1.814	133	**0401CR X-133A**
1.875	2.051	0.140	0.171	0.238	1.877	134	**0401CR X-134A**
1.937	2.113	0.140	0.171	0.238	1.939	135	**0401CR X-135A**
2.000	2.176	0.140	0.171	0.238	2.002	136	**0401CR X-136A**
2.062	2.238	0.140	0.171	0.238	2.064	137	**0401CR X-137A**
2.125	2.301	0.140	0.171	0.238	2.127	138	**0401CR X-138A**
2.187	2.363	0.140	0.171	0.238	2.189	139	**0401CR X-139A**
2.250	2.426	0.140	0.171	0.238	2.252	140	**0401CR X-140A**
2.312	2.488	0.140	0.171	0.238	2.314	141	**0401CR X-141A**
2.375	2.551	0.140	0.171	0.238	2.377	142	**0401CR X-142A**
2.437	2.613	0.140	0.171	0.238	2.439	143	**0401CR X-143A**
2.500	2.676	0.140	0.171	0.238	2.502	144	**0401CR X-144A**
2.562	2.738	0.140	0.171	0.238	2.564	145	**0401CR X-145A**
2.625	2.801	0.140	0.171	0.238	2.627	146	**0401CR X-146A**
2.687	2.863	0.140	0.171	0.238	2.689	147	**0401CR X-147A**
2.750	2.926	0.140	0.171	0.238	2.752	148	**0401CR X-148A**
2.812	2.988	0.140	0.171	0.238	2.814	149	**0401CR X-149A**
2.875	3.051	0.140	0.171	0.238	2.877	150	**0401CR X-150A**
3.000	3.176	0.140	0.171	0.238	3.002	151	**0401CR X-151A**
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.002/-.000		
0.187	0.429	0.187	0.208	0.275	0.188	201	**0401CR X-201A**
0.250	0.492	0.187	0.208	0.275	0.251	202	**0401CR X-202A**
0.312	0.554	0.187	0.208	0.275	0.313	203	**0401CR X-203A**
0.375	0.617	0.187	0.208	0.275	0.376	204	**0401CR X-204A**
0.437	0.679	0.187	0.208	0.275	0.438	205	**0401CR X-205A**
0.500	0.742	0.187	0.208	0.275	0.501	206	**0401CR X-206A**
0.562	0.804	0.187	0.208	0.275	0.563	207	**0401CR X-207A**
0.625	0.867	0.187	0.208	0.275	0.626	208	**0401CR X-208A**
0.687	0.929	0.187	0.208	0.275	0.688	209	**0401CR X-209A**
0.750	0.992	0.187	0.208	0.275	0.751	210	**0401CR X-210A**
0.812	1.054	0.187	0.208	0.275	0.813	211	**0401CR X-211A**
0.875	1.117	0.187	0.208	0.275	0.876	212	**0401CR X-212A**
0.937	1.179	0.187	0.208	0.275	0.938	213	**0401CR X-213A**
1.000	1.242	0.187	0.208	0.275	1.001	214	**0401CR X-214A**
1.062	1.304	0.187	0.208	0.275	1.063	215	**0401CR X-215A**
1.125	1.367	0.187	0.208	0.275	1.126	216	**0401CR X-216A**
1.187	1.429	0.187	0.208	0.275	1.188	217	**0401CR X-217A**
1.250	1.492	0.187	0.208	0.275	1.251	218	**0401CR X-218A**
1.312	1.554	0.187	0.208	0.275	1.313	219	**0401CR X-219A**
1.375	1.617	0.187	0.208	0.275	1.376	220	**0401CR X-220A**
1.437	1.679	0.187	0.208	0.275	1.438	221	**0401CR X-221A**
1.500	1.742	0.187	0.208	0.275	1.501	222	**0401CR X-222A**
1.625	1.867	0.187	0.208	0.275	1.627	223	**0401CR X-223A**
1.750	1.992	0.187	0.208	0.275	1.752	224	**0401CR X-224A**
1.875	2.117	0.187	0.208	0.275	1.877	225	**0401CR X-225A**
2.000	2.242	0.187	0.208	0.275	2.002	226	**0401CR X-226A**
2.125	2.367	0.187	0.208	0.275	2.127	227	**0401CR X-227A**

*If used with wear rings, refer to wear ring throat diameter, see Section 9.
For custom groove calculations, see Appendix C.

Parker Hannifin Corporation
Engineered Polymer Systems Division
Phone: 801 972 3000

Table 5-25. CR Gland Dimensions — Inch (Continued)

A Rod Diameter	B Groove Diameter	C Groove Width (CR0)	C Groove Width (CR1)	C Groove Width (CR2)	D Throat Diameter*	O-ring Dash Number	CR Part Number (X = Groove Width of 0, 1 or 2)
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.002/-.000		
2.250	2.492	0.187	0.208	0.275	2.252	228	**0401CR X-228A**
2.375	2.617	0.187	0.208	0.275	2.377	229	**0401CR X-229A**
2.500	2.742	0.187	0.208	0.275	2.502	230	**0401CR X-230A**
2.625	2.867	0.187	0.208	0.275	2.627	231	**0401CR X-231A**
2.750	2.992	0.187	0.208	0.275	2.752	232	**0401CR X-232A**
2.875	3.117	0.187	0.208	0.275	2.877	233	**0401CR X-233A**
3.000	3.242	0.187	0.208	0.275	3.002	234	**0401CR X-234A**
3.125	3.367	0.187	0.208	0.275	3.127	235	**0401CR X-235A**
3.250	3.492	0.187	0.208	0.275	3.252	236	**0401CR X-236A**
3.375	3.617	0.187	0.208	0.275	3.377	237	**0401CR X-237A**
3.500	3.742	0.187	0.208	0.275	3.502	238	**0401CR X-238A**
3.625	3.867	0.187	0.208	0.275	3.627	239	**0401CR X-239A**
3.750	3.992	0.187	0.208	0.275	3.752	240	**0401CR X-240A**
3.875	4.117	0.187	0.208	0.275	3.877	241	**0401CR X-241A**
4.000	4.242	0.187	0.208	0.275	4.002	242	**0401CR X-242A**
4.125	4.367	0.187	0.208	0.275	4.127	243	**0401CR X-243A**
4.250	4.492	0.187	0.208	0.275	4.252	244	**0401CR X-244A**
4.375	4.617	0.187	0.208	0.275	4.377	245	**0401CR X-245A**
4.500	4.742	0.187	0.208	0.275	4.503	246	**0401CR X-246A**
4.625	4.867	0.187	0.208	0.275	4.628	247	**0401CR X-247A**
4.750	4.992	0.187	0.208	0.275	4.753	248	**0401CR X-248A**
4.875	5.117	0.187	0.208	0.275	4.878	249	**0401CR X-249A**
5.000	5.242	0.187	0.208	0.275	5.003	250	**0401CR X-250A**
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.002/-.000		
0.437	0.807	0.281	0.311	0.410	0.439	309	**0401CR X-309A**
0.500	0.870	0.281	0.311	0.410	0.502	310	**0401CR X-310A**
0.562	0.932	0.281	0.311	0.410	0.564	311	**0401CR X-311A**
0.625	0.995	0.281	0.311	0.410	0.627	312	**0401CR X-312A**
0.687	1.057	0.281	0.311	0.410	0.689	313	**0401CR X-313A**
0.750	1.120	0.281	0.311	0.410	0.752	314	**0401CR X-314A**
0.812	1.182	0.281	0.311	0.410	0.814	315	**0401CR X-315A**
0.875	1.245	0.281	0.311	0.410	0.877	316	**0401CR X-316A**
0.937	1.307	0.281	0.311	0.410	0.939	317	**0401CR X-317A**
1.000	1.370	0.281	0.311	0.410	1.002	318	**0401CR X-318A**
1.062	1.432	0.281	0.311	0.410	1.064	319	**0401CR X-319A**
1.125	1.495	0.281	0.311	0.410	1.127	320	**0401CR X-320A**
1.187	1.557	0.281	0.311	0.410	1.189	321	**0401CR X-321A**
1.250	1.620	0.281	0.311	0.410	1.252	322	**0401CR X-322A**
1.312	1.682	0.281	0.311	0.410	1.314	323	**0401CR X-323A**
1.375	1.745	0.281	0.311	0.410	1.377	324	**0401CR X-324A**
1.500	1.870	0.281	0.311	0.410	1.502	325	**0401CR X-325A**
1.625	1.995	0.281	0.311	0.410	1.627	326	**0401CR X-326A**
1.750	2.120	0.281	0.311	0.410	1.752	327	**0401CR X-327A**
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.002/-.000		
1.875	2.245	0.281	0.311	0.410	1.878	328	**0401CR X-328A**
2.000	2.370	0.281	0.311	0.410	2.003	329	**0401CR X-329A**
2.125	2.495	0.281	0.311	0.410	2.128	330	**0401CR X-330A**
2.250	2.620	0.281	0.311	0.410	2.253	331	**0401CR X-331A**

*If used with wear rings, refer to wear ring throat diameter, see Section 9.
For custom groove calculations, see Appendix C.

09/01/07

Parker Hannifin Corporation
Engineered Polymer Systems Division
Phone: 801 972 3000

Table 5-25. CR Gland Dimensions — Inch (Continued)

A Rod Diameter	B Groove Diameter	C Groove Width (CR0)	C Groove Width (CR1)	C Groove Width (CR2)	D Throat Diameter*	O-ring Dash Number	CR Part Number (X = Groove Width of 0, 1 or 2)
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.002/-.000		
2.375	2.745	0.281	0.311	0.410	2.378	332	**0401CR X-332A**
2.500	2.870	0.281	0.311	0.410	2.503	333	**0401CR X-333A**
2.625	2.995	0.281	0.311	0.410	2.628	334	**0401CR X-334A**
2.750	3.120	0.281	0.311	0.410	2.753	335	**0401CR X-335A**
2.875	3.245	0.281	0.311	0.410	2.878	336	**0401CR X-336A**
3.000	3.370	0.281	0.311	0.410	3.003	337	**0401CR X-337A**
3.125	3.495	0.281	0.311	0.410	3.128	338	**0401CR X-338A**
3.250	3.620	0.281	0.311	0.410	3.253	339	**0401CR X-339A**
3.375	3.745	0.281	0.311	0.410	3.378	340	**0401CR X-340A**
3.500	3.870	0.281	0.311	0.410	3.503	341	**0401CR X-341A**
3.625	3.995	0.281	0.311	0.410	3.628	342	**0401CR X-342A**
3.750	4.120	0.281	0.311	0.410	3.753	343	**0401CR X-343A**
3.875	4.245	0.281	0.311	0.410	3.878	344	**0401CR X-344A**
4.000	4.370	0.281	0.311	0.410	4.003	345	**0401CR X-345A**
4.125	4.495	0.281	0.311	0.410	4.128	346	**0401CR X-346A**
4.250	4.620	0.281	0.311	0.410	4.253	347	**0401CR X-347A**
4.375	4.745	0.281	0.311	0.410	4.378	348	**0401CR X-348A**
4.500	4.870	0.281	0.311	0.410	4.503	349	**0401CR X-349A**
4.625	4.995	0.281	0.311	0.410	4.628	350	**0401CR X-350A**
4.750	5.120	0.281	0.311	0.410	4.753	351	**0401CR X-351A**
4.875	5.245	0.281	0.311	0.410	4.878	352	**0401CR X-352A**
5.000	5.370	0.281	0.311	0.410	5.003	353	**0401CR X-353A**
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.003/-.000		
4.500	4.974	0.375	0.408	0.538	4.504	425	**0401CR X-425A**
4.625	5.099	0.375	0.408	0.538	4.629	426	**0401CR X-426A**
4.750	5.224	0.375	0.408	0.538	4.754	427	**0401CR X-427A**
4.875	5.349	0.375	0.408	0.538	4.879	428	**0401CR X-428A**
5.000	5.474	0.375	0.408	0.538	5.004	429	**0401CR X-429A**
5.125	5.599	0.375	0.408	0.538	5.129	430	**0401CR X-430A**
5.250	5.724	0.375	0.408	0.538	5.254	431	**0401CR X-431A**
5.375	5.849	0.375	0.408	0.538	5.379	432	**0401CR X-432A**
5.500	5.974	0.375	0.408	0.538	5.504	433	**0401CR X-433A**
5.625	6.099	0.375	0.408	0.538	5.629	434	**0401CR X-434A**
5.750	6.224	0.375	0.408	0.538	5.754	435	**0401CR X-435A**
5.875	6.349	0.375	0.408	0.538	5.879	436	**0401CR X-436A**
6.000	6.474	0.375	0.408	0.538	6.004	437	**0401CR X-437A**
6.250	6.724	0.375	0.408	0.538	6.254	438	**0401CR X-438A**
6.500	6.974	0.375	0.408	0.538	6.504	439	**0401CR X-439A**
6.750	7.224	0.375	0.408	0.538	6.754	440	**0401CR X-440A**
7.000	7.474	0.375	0.408	0.538	7.004	441	**0401CR X-441A**
7.250	7.724	0.375	0.408	0.538	7.254	442	**0401CR X-442A**
7.500	7.974	0.375	0.408	0.538	7.504	443	**0401CR X-443A**
7.750	8.224	0.375	0.408	0.538	7.754	444	**0401CR X-444A**
8.000	8.474	0.375	0.408	0.538	8.004	445	**0401CR X-445A**
8.500	8.974	0.375	0.408	0.538	8.504	446	**0401CR X-446A**
9.000	9.474	0.375	0.408	0.538	9.004	447	**0401CR X-447A**
9.500	9.974	0.375	0.408	0.538	9.504	448	**0401CR X-448A**
10.000	10.474	0.375	0.408	0.538	10.004	449	**0401CR X-449A**

*If used with wear rings, refer to wear ring throat diameter, see Section 9.
For custom groove calculations, see Appendix C.

09/01/07

Parker Hannifin Corporation
Engineered Polymer Systems Division
Phone: 801 972 3000

Table 5-25. CR Gland Dimensions — Inch (Continued)

A Rod Diameter	B Groove Diameter	C Groove Width (CR0)	C Groove Width (CR1)	C Groove Width (CR2)	D Throat Diameter*	O-ring Dash Number	CR Part Number (X = Groove Width of 0, 1 or 2)
+.000/-.002	+.002/-.000	+.005/-.000	+.005/-.000	+.005/-.000	+.004/-.000		
10.500	10.974	0.375	0.408	0.538	10.504	450	**0401CR X-450A**
11.000	11.474	0.375	0.408	0.538	11.004	451	**0401CR X-451A**
11.500	11.974	0.375	0.408	0.538	11.504	452	**0401CR X-452A**
12.000	12.474	0.375	0.408	0.538	12.004	453	**0401CR X-453A**
12.500	12.974	0.375	0.408	0.538	12.504	454	**0401CR X-454A**
13.000	13.474	0.375	0.408	0.538	13.004	455	**0401CR X-455A**
13.500	13.974	0.375	0.408	0.538	13.504	456	**0401CR X-456A**
14.000	14.474	0.375	0.408	0.538	14.004	457	**0401CR X-457A**
14.500	14.974	0.375	0.408	0.538	14.504	458	**0401CR X-458A**
15.000	15.474	0.375	0.408	0.538	15.004	459	**0401CR X-459A**
15.500	15.974	0.375	0.408	0.538	15.504	460	**0401CR X-460A**
16.000	16.474	0.375	0.408	0.538	16.004	461	**0401CR X-461A**

*If used with wear rings, refer to wear ring throat diameter, see Section 9.
For custom groove calculations, see Appendix C.

NOTE: For sizes larger than those shown in the table, please contact your local Parker Seal representative.

Parker Hannifin Corporation
Engineered Polymer Systems Division
Phone: 801 972 3000