Fluoro Automotive Plast Private Limited

(Under One Roof For All Sealing & Gasket Solutions)

Assured Quality | Reliability | Customer Satisfaction

O-RING & BACKUP RING

Delivering Quality & Globally

Quality Certifications

- ISO Certified
- IATF Certified
- SQ Mark Certified
- MACE Certified

FAP/DESIGN/PP/BROCHURE/2026/111

INTRODUCTION

Fluoro Automotive Plast Pvt Ltd was established in the year 2022 certified with ISO, IATF, SQ Mark, MACE as an extension of a parent organization founded in 1996, our company carries forward nearly three decades of expertise in manufacturing high-performance sealing solutions. Built on a strong legacy of precision engineering and quality, we combine proven manufacturing excellence with advanced technologies to deliver reliable sealing components for global industries.

We manufacture precision-engineered components using high-performance materials including PTFE (Teflon), TFM, PEEK (Victrex), PCTFE, PFA, VESPEL, POM, TPU, TPEE, NBR, HNBR, FKM, FFKM, and other engineering polymers. Serving industries such as Hydraulic & Pneumatic, Pumps & Valves, Oil & Gas, Food Processing, Pharmaceuticals, Defence, Aerospace, and Automotive, we have enhanced our capabilities with 3D Scanning, Automated Camera Inspection Systems, and modern precision manufacturing technologies.

Supported by advanced infrastructure and stringent quality standards, we are committed to delivering innovative, customized sealing solutions with exceptional performance and reliability. By combining the trusted heritage of our parent organization with continuous innovation and dedicated customer support, we strive to exceed customer expectations worldwide.

WHY CHOOSE US?

- 30+ Years of Industry Expertise
- Stringent Quality Control
- Custom Sealing Solutions
- Quality Product / Timely Delivery
- Customer-Focused Support
- Advanced Manufacturing

Quality is the foundation of everything we do. For over three decades, we have been committed to delivering reliable, precision-engineered sealing solutions that meet the highest standards. Through continuous improvement, innovation, and a customer-focused approach, we strive to exceed expectations and build lasting partnerships.

— Managing Director

Fluoro Automotive Plast Pvt Ltd

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MATERIAL SELECTION

O-RING

BACKUP RING

MATERIAL SELECTION

Material Code	Description	Typical Applications	Temperature Range °C [°F]	Shore Hardness
FMT001	FKM		-30 to 230 [-22 to +446]	Shore A 70-95
FMT002	FFKM		-5 to 300 [23 to +572]	Shore A 70-95
F1001	FKM-RGD		-30 to 230 [-22 to +446]	Shore A 70-95
F1004	HNBR-RGD		-25 to 150 [-13 to +302]	Shore A 70-95
FMT003	NBR		-22 to 100 [-13 to +212]	Shore A 70-95
FMT004	HNBR		-25 to 150 [-13 to +302]	Shore A 70-95
FMT005	EPDM		-50 to 130 [-58 to +266]	Shore A 70-95
FMT006	MVQ		-55 to 210 [-67 to +410]	Shore A 70-95
FMT007	TFE		-15 to 210 [5 to +410]	Shore A 70-95
FMT008	TPU	(Customised Colour)	-30 to 125 [-22 to +257]	Shore A 80-95
FM002B	PTFE		-200 to 260 [-328 to +500]	Shore D 55-65

O-Ring

Introduction

In Fluid Control System, Power is transmitted and controlled through a fluid (Liquid or Gas) under pressure within an enclosed circuit. To avoid leakage or to seal different chambers of a component from each other, sealing devices are used. O-Ring are one type of sealing device.

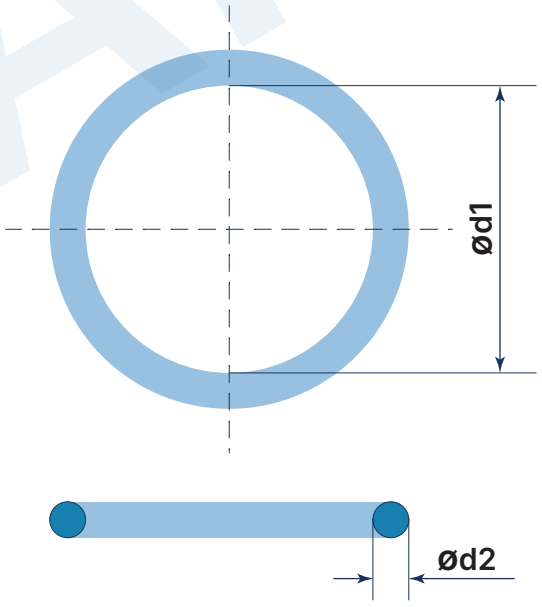
The O-ring are moulded from wide ranges of polymeric materials for standard and special applications. Standard material like NBR, HNBR, EPDM, FKM, FFKM, SILICONE (MVQ), FVMQ, TFE (AFLAS), TPE, TPU, PTFE, PEEK, UHMWPE and other engineering polymers customised based on applications.

O-Rings are made to available as per the Standards ISO 3601, AS568D and customised size are available on request.

O-Ring are used in the field of Automotive, Aerospace, Construction, Mining, Railways, Semiconductor, Power Plant, Solar and Wind Power, Food and Beverages, Engineering, Medical, Hydraulic and Pneumatic Systems, Oil and Gas, Pharmaceuticals.

Description of O-Ring

The O-ring are defined by the Inner Diameter (d1) and Cross Section (d2).



Advantages

The O-Ring has a wide range of advantages by comparing other seals.

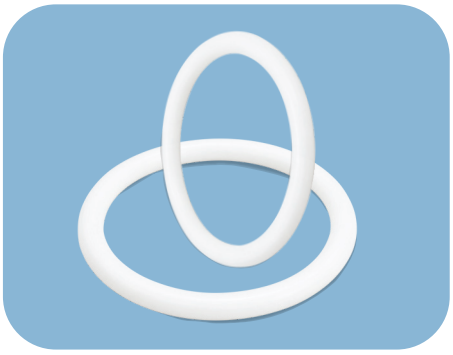
They are all suitable for both single acting application as well as double acting application.

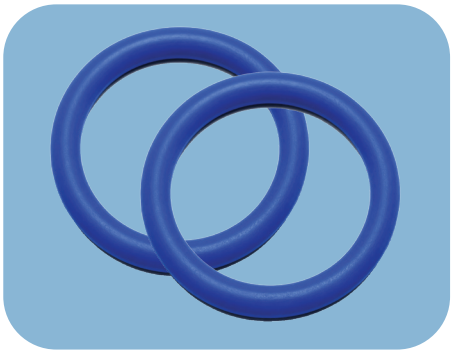
This O-ring are simple in design but it is suitable to withstand higher pressure and high temperature.

O-Ring is suitable for most of the chemical synthesise.

Available Grades

FAP O-Rings available in FDA-Approved Grades.



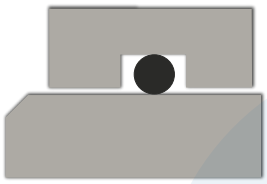


O-Ring Selection

COMPANY CODE	TYPE	FAP PART NO.	MATERIAL CODE
FAP	OR	001	FMT001
	OR (O-RING)	Refer Pages - 04 to 07	Refer Page - 01

Ex.: FAP-OR-001-FMT001

Seal Location

ROD SEALS	PISTON SEALS	FLANGE SEALS
		

Surface Roughness

The surface roughness of the O-Ring housing and any mating part has a significant impact on the life and sealing performance of the O-Ring.

Visual surface imperfections are not allowed on surfaces Housing Bore, Static and Dynamic mating surface.

Surface Roughness Table

d2	Housing Radius	Side Surface	Housing Bore or Housing Groove	Static Mating Surface	Dynamic Mating Surface
1.78	+0.4 +0.2	Ra 1.6 Rz 6.3	Ra 1.6 Rz 6.3	Ra 1.6 Rz 6.3	Ra 0.4 Rz 1.6
2.62					
3.53	+0.8 +0.4				
5.33					
6.99	+1.2 +0.8				

O-RING
PART NUMBER & SIZE CHART

FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
001	0.74	0.12	1.02	0.08
002	1.07	0.12	1.27	0.08
003	1.42	0.12	1.52	0.08
004	1.78	0.13	1.78	0.08
005	2.57	0.13	1.78	0.08
006	2.90	0.13	1.78	0.08
007	3.68	0.14	1.78	0.08
008	4.47	0.15	1.78	0.08
009	5.28	0.15	1.78	0.08
010	6.07	0.16	1.78	0.08
011	7.65	0.17	1.78	0.08
012	9.25	0.18	1.78	0.08
013	10.82	0.20	1.78	0.08
014	12.42	0.21	1.78	0.08
015	14.00	0.22	1.78	0.08
016	15.60	0.23	1.78	0.08
017	17.17	0.24	1.78	0.08
018	18.77	0.26	1.78	0.08
019	20.35	0.27	1.78	0.08
020	21.95	0.28	1.78	0.08
021	23.52	0.29	1.78	0.08
022	25.12	0.30	1.78	0.08
023	26.70	0.31	1.78	0.08
024	28.30	0.33	1.78	0.08
025	29.87	0.34	1.78	0.08
026	31.47	0.35	1.78	0.08
027	33.05	0.36	1.78	0.08
028	34.65	0.37	1.78	0.08
029	37.82	0.39	1.78	0.08
030	41.00	0.42	1.78	0.08
031	44.17	0.44	1.78	0.08
032	47.35	0.46	1.78	0.08
033	50.52	0.48	1.78	0.08
034	53.70	0.51	1.78	0.08
035	56.87	0.53	1.78	0.08
036	60.05	0.55	1.78	0.08
037	63.22	0.57	1.78	0.08
038	66.40	0.59	1.78	0.08
039	69.57	0.62	1.78	0.08
040	72.75	0.64	1.78	0.08
041	75.92	0.66	1.78	0.08
042	82.27	0.70	1.78	0.08
043	88.62	0.75	1.78	0.08
044	94.97	0.79	1.78	0.08
045	101.32	0.83	1.78	0.08

FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
046	107.67	0.88	1.78	0.08
047	114.02	0.92	1.78	0.08
048	120.37	0.96	1.78	0.08
049	126.72	1.01	1.78	0.08
050	133.07	1.05	1.78	0.08
102	1.24	0.12	2.62	0.09
103	2.06	0.13	2.62	0.09
104	2.84	0.13	2.62	0.09
105	3.63	0.14	2.62	0.09
106	4.42	0.15	2.62	0.09
107	5.23	0.15	2.62	0.09
108	6.02	0.16	2.62	0.09
109	7.59	0.17	2.62	0.09
110	9.19	0.18	2.62	0.09
111	10.77	0.20	2.62	0.09
112	12.37	0.21	2.62	0.09
113	13.94	0.22	2.62	0.09
114	15.54	0.23	2.62	0.09
115	17.12	0.24	2.62	0.09
116	18.72	0.26	2.62	0.09
117	20.29	0.27	2.62	0.09
118	21.89	0.28	2.62	0.09
119	23.47	0.29	2.62	0.09
120	25.07	0.30	2.62	0.09
121	26.64	0.31	2.62	0.09
122	28.24	0.33	2.62	0.09
123	29.82	0.34	2.62	0.09
124	31.42	0.35	2.62	0.09
125	32.99	0.36	2.62	0.09
126	34.59	0.37	2.62	0.09
127	36.17	0.38	2.62	0.09
128	37.77	0.39	2.62	0.09
129	39.34	0.40	2.62	0.09
130	40.94	0.42	2.62	0.09
131	42.52	0.43	2.62	0.09
132	44.12	0.44	2.62	0.09
133	45.69	0.45	2.62	0.09
134	47.29	0.46	2.62	0.09
135	48.90	0.47	2.62	0.09
136	50.47	0.48	2.62	0.09
137	52.07	0.49	2.62	0.09
138	53.64	0.51	2.62	0.09
139	55.25	0.52	2.62	0.09
140	56.82	0.53	2.62	0.09
141	58.42	0.54	2.62	0.09

NOTE: Non-standard dimensions are available on request

O-RING
PART NUMBER & SIZE CHART

FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
142	59.99	0.55	2.62	0.09
143	61.60	0.56	2.62	0.09
144	63.17	0.57	2.62	0.09
145	64.77	0.58	2.62	0.09
146	66.34	0.59	2.62	0.09
147	67.95	0.61	2.62	0.09
148	69.52	0.62	2.62	0.09
149	71.12	0.63	2.62	0.09
150	72.69	0.64	2.62	0.09
151	75.87	0.66	2.62	0.09
152	82.22	0.70	2.62	0.09
153	88.57	0.75	2.62	0.09
154	94.92	0.79	2.62	0.09
155	101.27	0.83	2.62	0.09
156	107.62	0.88	2.62	0.09
157	113.97	0.92	2.62	0.09
158	120.32	0.96	2.62	0.09
159	126.67	1.00	2.62	0.09
160	133.02	1.05	2.62	0.09
161	139.37	1.09	2.62	0.09
162	145.72	1.13	2.62	0.09
163	152.07	1.17	2.62	0.09
164	158.42	1.22	2.62	0.09
165	164.77	1.26	2.62	0.09
166	171.12	1.30	2.62	0.09
167	177.47	1.34	2.62	0.09
168	183.82	1.38	2.62	0.09
169	190.17	1.43	2.62	0.09
170	196.52	1.47	2.62	0.09
171	202.87	1.51	2.62	0.09
172	209.22	1.55	2.62	0.09
173	215.57	1.59	2.62	0.09
174	221.92	1.63	2.62	0.09
175	228.27	1.68	2.62	0.09
176	234.62	1.72	2.62	0.09
177	240.97	1.76	2.62	0.09
178	247.32	1.80	2.62	0.09
201	4.34	0.15	3.53	0.10
202	5.94	0.16	3.53	0.10
203	7.52	0.17	3.53	0.10
204	9.12	0.18	3.53	0.10
205	10.69	0.20	3.53	0.10
206	12.29	0.21	3.53	0.10
207	13.87	0.22	3.53	0.10
208	15.47	0.23	3.53	0.10

FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
209	17.04	0.24	3.53	0.10
210	18.64	0.25	3.53	0.10
211	20.22	0.27	3.53	0.10
212	21.82	0.28	3.53	0.10
213	23.39	0.29	3.53	0.10
214	24.99	0.30	3.53	0.10
215	26.57	0.31	3.53	0.10
216	28.17	0.32	3.53	0.10
217	29.74	0.34	3.53	0.10
218	31.34	0.35	3.53	0.10
219	32.92	0.36	3.53	0.10
220	34.52	0.37	3.53	0.10
221	36.09	0.38	3.53	0.10
222	37.69	0.39	3.53	0.10
223	40.87	0.42	3.53	0.10
224	44.04	0.44	3.53	0.10
225	47.22	0.46	3.53	0.10
226	50.39	0.48	3.53	0.10
227	53.57	0.51	3.53	0.10
228	56.74	0.53	3.53	0.10
229	59.92	0.55	3.53	0.10
230	63.09	0.57	3.53	0.10
231	66.27	0.59	3.53	0.10
232	69.44	0.62	3.53	0.10
233	72.62	0.64	3.53	0.10
234	75.79	0.66	3.53	0.10
235	78.97	0.68	3.53	0.10
236	82.14	0.70	3.53	0.10
237	85.32	0.72	3.53	0.10
238	88.49	0.75	3.53	0.10
239	91.67	0.77	3.53	0.10
240	94.84	0.79	3.53	0.10
241	98.02	0.81	3.53	0.10
242	101.19	0.83	3.53	0.10
243	104.37	0.85	3.53	0.10
244	107.54	0.88	3.53	0.10
245	110.72	0.90	3.53	0.10
246	113.89	0.92	3.53	0.10
247	117.07	0.94	3.53	0.10
248	120.24	0.96	3.53	0.10
249	123.42	0.98	3.53	0.10
250	126.59	1.00	3.53	0.10
251	129.77	1.03	3.53	0.10
252	132.94	1.05	3.53	0.10
253	136.12	1.07	3.53	0.10

NOTE: Non-standard dimensions are available on request

O-RING
PART NUMBER & SIZE CHART

FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
254	139.29	1.09	3.53	0.10
255	142.47	1.11	3.53	0.10
256	145.64	1.13	3.53	0.10
257	148.82	1.15	3.53	0.10
258	151.99	1.17	3.53	0.10
259	158.34	1.22	3.53	0.10
260	164.69	1.26	3.53	0.10
261	171.04	1.30	3.53	0.10
262	177.39	1.34	3.53	0.10
263	183.74	1.38	3.53	0.10
264	190.09	1.43	3.53	0.10
265	196.44	1.47	3.53	0.10
266	202.79	1.51	3.53	0.10
267	209.14	1.55	3.53	0.10
268	215.49	1.59	3.53	0.10
269	221.84	1.63	3.53	0.10
270	228.19	1.68	3.53	0.10
271	234.54	1.72	3.53	0.10
272	240.89	1.76	3.53	0.10
273	247.24	1.80	3.53	0.10
274	253.59	1.84	3.53	0.10
275	266.29	1.92	3.53	0.10
276	278.99	2.00	3.53	0.10
277	291.69	2.09	3.53	0.10
278	304.39	2.17	3.53	0.10
279	329.79	2.33	3.53	0.10
280	355.19	2.49	3.53	0.10
281	380.59	2.65	3.53	0.10
282	405.26	2.81	3.53	0.10
283	430.66	2.97	3.53	0.10
284	456.06	3.13	3.53	0.10
309	10.46	0.19	5.33	0.13
310	12.07	0.21	5.33	0.13
311	13.64	0.22	5.33	0.13
312	15.24	0.23	5.33	0.13
313	16.81	0.24	5.33	0.13
314	18.42	0.25	5.33	0.13
315	19.99	0.26	5.33	0.13
316	21.59	0.28	5.33	0.13
317	23.16	0.29	5.33	0.13
318	24.77	0.30	5.33	0.13
319	26.34	0.31	5.33	0.13
320	27.94	0.32	5.33	0.13
321	29.51	0.33	5.33	0.13
322	31.12	0.35	5.33	0.13

FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
323	32.69	0.36	5.33	0.13
324	34.29	0.37	5.33	0.13
325	37.47	0.39	5.33	0.13
326	40.64	0.41	5.33	0.13
327	43.82	0.44	5.33	0.13
328	46.99	0.46	5.33	0.13
329	50.17	0.48	5.33	0.13
330	53.34	0.50	5.33	0.13
331	56.52	0.53	5.33	0.13
332	59.69	0.55	5.33	0.13
333	62.87	0.57	5.33	0.13
334	66.04	0.59	5.33	0.13
335	69.22	0.61	5.33	0.13
336	72.39	0.64	5.33	0.13
337	75.57	0.66	5.33	0.13
338	78.74	0.68	5.33	0.13
339	81.92	0.70	5.33	0.13
340	85.09	0.72	5.33	0.13
341	88.27	0.74	5.33	0.13
342	91.44	0.77	5.33	0.13
343	94.62	0.79	5.33	0.13
344	97.79	0.81	5.33	0.13
345	100.97	0.83	5.33	0.13
346	104.14	0.85	5.33	0.13
347	107.32	0.87	5.33	0.13
348	110.49	0.90	5.33	0.13
349	113.67	0.92	5.33	0.13
350	116.84	0.94	5.33	0.13
351	120.02	0.96	5.33	0.13
352	123.19	0.98	5.33	0.13
353	126.37	1.00	5.33	0.13
354	129.54	1.02	5.33	0.13
355	132.72	1.05	5.33	0.13
356	135.89	1.07	5.33	0.13
357	139.07	1.09	5.33	0.13
358	142.24	1.11	5.33	0.13
359	145.42	1.13	5.33	0.13
360	148.59	1.15	5.33	0.13
361	151.77	1.17	5.33	0.13
362	158.12	1.21	5.33	0.13
363	164.47	1.26	5.33	0.13
364	170.82	1.30	5.33	0.13
365	177.17	1.34	5.33	0.13
366	183.52	1.38	5.33	0.13
367	189.87	1.42	5.33	0.13

NOTE: Non-standard dimensions are available on request

O-RING
PART NUMBER & SIZE CHART

FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
368	196.22	1.47	5.33	0.13
369	202.57	1.51	5.33	0.13
370	208.92	1.55	5.33	0.13
371	215.27	1.59	5.33	0.13
372	221.62	1.63	5.33	0.13
373	227.97	1.67	5.33	0.13
374	234.32	1.72	5.33	0.13
375	240.67	1.76	5.33	0.13
376	247.02	1.80	5.33	0.13
377	253.37	1.84	5.33	0.13
378	266.07	1.92	5.33	0.13
379	278.77	2.00	5.33	0.13
380	291.47	2.09	5.33	0.13
381	304.17	2.17	5.33	0.13
382	329.57	2.33	5.33	0.13
383	354.97	2.49	5.33	0.13
384	380.37	2.65	5.33	0.13
385	405.26	2.81	5.33	0.13
386	430.66	2.97	5.33	0.13
387	456.06	3.13	5.33	0.13
388	481.46	3.29	5.33	0.13
389	506.86	3.45	5.33	0.13
390	532.26	3.61	5.33	0.13
391	557.66	3.77	5.33	0.13
392	582.68	3.92	5.33	0.13
393	608.08	4.08	5.33	0.13
394	633.48	4.24	5.33	0.13
395	658.88	4.40	5.33	0.13
425	113.67	0.92	6.99	0.13
426	116.84	0.94	6.99	0.13
427	120.02	0.96	6.99	0.13
428	123.19	0.98	6.99	0.13
429	126.37	1.00	6.99	0.15
430	129.54	1.02	6.99	0.15
431	132.72	1.05	6.99	0.15
432	135.89	1.07	6.99	0.15
433	139.07	1.09	6.99	0.15
434	142.24	1.11	6.99	0.15
435	145.42	1.13	6.99	0.15
436	148.59	1.15	6.99	0.15
437	151.77	1.17	6.99	0.15
438	158.12	1.21	6.99	0.15
439	164.47	1.26	6.99	0.15
440	170.82	1.30	6.99	0.15
441	177.17	1.34	6.99	0.15

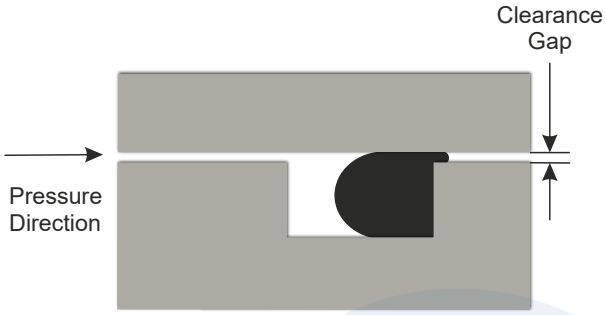
FAP Part No.	Inside Ø		Cross Section Ø	
	d1 (mm)	Tolerance (mm)	d2 (mm)	Tolerance (mm)
442	183.52	1.38	6.99	0.15
443	189.87	1.42	6.99	0.15
444	196.22	1.47	6.99	0.15
445	202.57	1.51	6.99	0.15
446	215.27	1.59	6.99	0.15
447	227.97	1.67	6.99	0.15
448	240.67	1.76	6.99	0.15
449	253.37	1.84	6.99	0.15
450	266.07	1.92	6.99	0.15
451	278.77	2.00	6.99	0.15
452	291.47	2.09	6.99	0.15
453	304.17	2.17	6.99	0.15
454	316.87	2.25	6.99	0.15
455	329.57	2.33	6.99	0.15
456	342.27	2.41	6.99	0.15
457	354.97	2.49	6.99	0.15
458	367.67	2.57	6.99	0.15
459	380.37	2.65	6.99	0.15
460	393.07	2.73	6.99	0.15
461	405.26	2.81	6.99	0.15
462	417.96	2.89	6.99	0.15
463	430.66	2.97	6.99	0.15
464	443.36	3.05	6.99	0.15
465	456.06	3.13	6.99	0.15
466	468.76	3.21	6.99	0.15
467	481.46	3.29	6.99	0.15
468	494.16	3.37	6.99	0.15
469	506.86	3.45	6.99	0.15
470	532.26	3.61	6.99	0.15
471	557.66	3.77	6.99	0.15
472	582.68	3.92	6.99	0.15
473	608.08	4.08	6.99	0.15
474	633.48	4.24	6.99	0.15
475	658.88	4.40	6.99	0.15

NOTE: Non-standard dimensions are available on request

Backup Ring

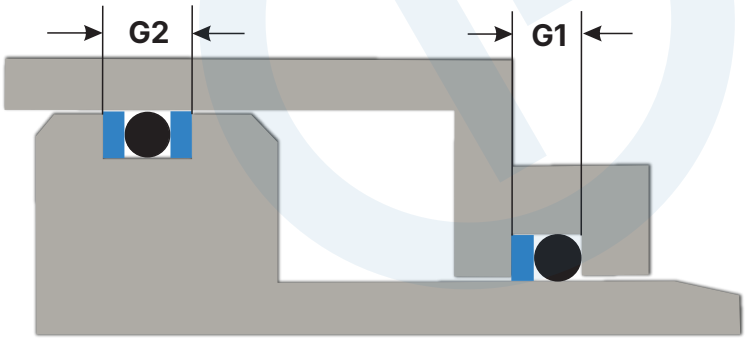
Backup rings are manufactured from various polymeric materials or hard elastomers and are used to prevent O-ring extrusion into the clearance gap. When high pressure acts directly on an O-ring, the elastomer tends to deform and flow into the clearance gap, leading to seal damage or premature failure.

To prevent this, backup rings are installed adjacent to the O-ring, providing firm support and restricting elastomer flow under pressure. Backup rings are manufactured as per military, ISO, AS standards, and are also available in customized dimensions to suit specific application requirements.



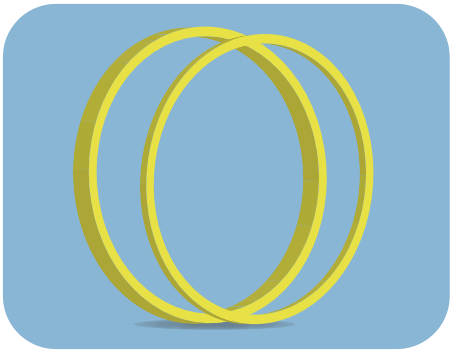
Without backup ring
O-ring extrudes into the clearance gap.

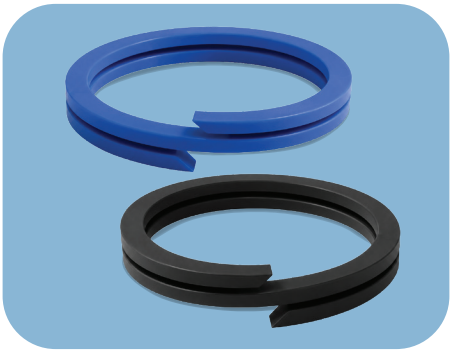
With backup ring
Blocks extrusion and supports the O-ring

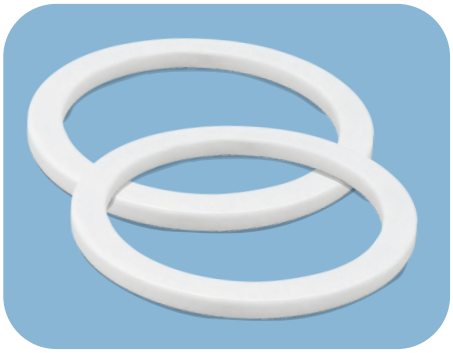


G1 - With one Backup Ring
G2 - With two Backup Ring

PROFILE	PROFILE NO.
	FAP-BR01
	FAP-BR01A
	FAP-BR01B
	FAP-BR01C
	FAP-BR01D
	FAP-BR01E
	FAP-BR01F







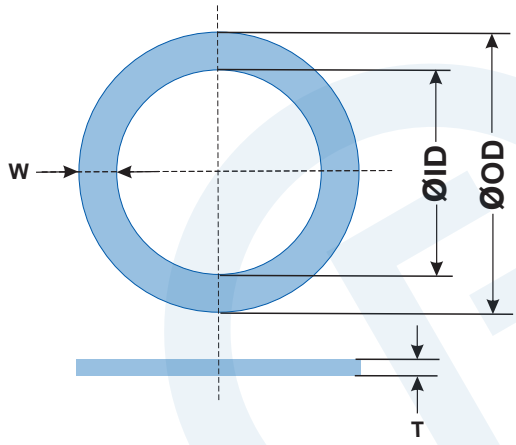
Backup Ring Selection

COMPANY CODE	PROFILE NO.	FAP PART NO.	MATERIAL CODE
FAP	BR01	004	FMT001
	BR (BACKUP RING) Refer Page - 08	Refer Pages - 10 to 16	Refer Page - 01

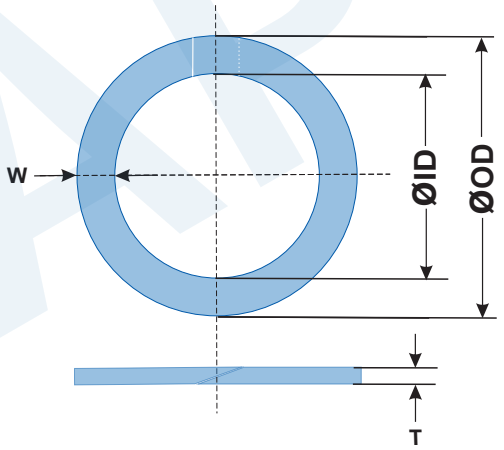
Ex.: FAP-BR01-004-FMT001

Types of Backup Ring

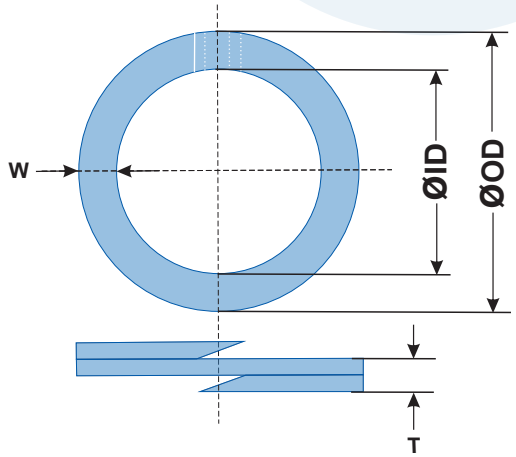
Solid Backup Ring



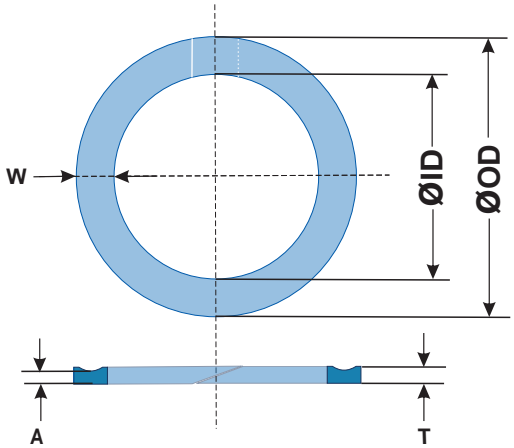
Angle cut Backup Ring

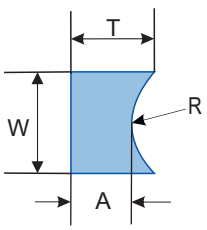


Spiral Backup Ring



Concave Backup Ring





T	W	A	R
1.24	1.35	1.14	2.21
1.35	2.18	1.14	3.28
1.27	3.00	1.02	4.42
1.93	4.65	1.52	6.65
2.97	5.99	2.44	8.74

BACKUP RING
PART NUMBER & SIZE CHART

FAP Part No.	Outside Diameter		Inside Diameter		Thickness		Width		G1	G2
	OD Ø (mm)	Tol ± (mm)	ID Ø (mm)	Tol ± (mm)	T (mm)	Tol ± (mm)	W (mm)	Tol ± (mm)		
004	5.14	0.13	2.44	0.13	1.2	0.08	1.35	0.08	3.91	5.33
005	5.93	0.13	3.23	0.13	1.2	0.08	1.35	0.08	3.91	5.33
006	6.26	0.13	3.56	0.13	1.2	0.08	1.35	0.08	3.91	5.33
007	7.04	0.13	4.34	0.13	1.2	0.08	1.35	0.08	3.81	5.33
008	7.83	0.13	5.13	0.13	1.2	0.08	1.35	0.08	3.81	5.33
009	8.64	0.13	5.94	0.13	1.2	0.08	1.35	0.08	3.81	5.33
010	9.43	0.13	6.73	0.13	1.2	0.08	1.35	0.08	3.81	5.33
011	11.01	0.13	8.31	0.13	1.2	0.08	1.35	0.08	3.81	5.33
012	12.61	0.13	9.91	0.13	1.2	0.08	1.35	0.08	3.81	5.33
013	14.26	0.13	11.56	0.13	1.2	0.08	1.35	0.08	3.81	5.33
014	15.86	0.13	13.16	0.13	1.2	0.08	1.35	0.08	3.81	5.33
015	17.43	0.18	14.73	0.18	1.2	0.08	1.35	0.08	3.81	5.33
016	19.03	0.23	16.33	0.23	1.2	0.08	1.35	0.08	3.81	5.33
017	20.61	0.23	17.91	0.23	1.2	0.08	1.35	0.08	3.81	5.33
018	22.21	0.23	19.51	0.23	1.2	0.08	1.35	0.08	3.81	5.33
019	23.78	0.23	21.08	0.23	1.2	0.08	1.35	0.08	3.81	5.33
020	25.38	0.23	22.68	0.23	1.2	0.08	1.35	0.08	3.81	5.33
021	26.96	0.23	24.26	0.23	1.2	0.08	1.35	0.08	3.81	5.33
022	28.56	0.25	25.86	0.25	1.2	0.08	1.35	0.08	3.81	5.33
023	30.13	0.25	27.43	0.25	1.2	0.08	1.35	0.08	3.81	5.33
024	31.73	0.25	29.03	0.25	1.2	0.08	1.35	0.08	3.81	5.33
025	33.31	0.28	30.61	0.28	1.2	0.08	1.35	0.08	3.81	5.33
026	34.91	0.28	32.21	0.28	1.2	0.08	1.35	0.08	3.81	5.33
027	36.48	0.28	33.78	0.28	1.2	0.08	1.35	0.08	3.81	5.33
028	38.08	0.33	35.38	0.33	1.2	0.08	1.35	0.08	3.81	5.33
029	41.26	0.33	38.56	0.33	1.2	0.08	1.35	0.08	3.81	5.33
030	44.43	0.33	41.73	0.33	1.2	0.08	1.35	0.08	3.81	5.33
031	47.61	0.38	44.91	0.38	1.2	0.08	1.35	0.08	3.81	5.33
032	50.79	0.38	48.09	0.38	1.2	0.08	1.35	0.08	3.81	5.33
033	53.96	0.46	51.26	0.46	1.2	0.08	1.35	0.08	3.81	5.33
034	57.13	0.46	54.43	0.46	1.2	0.08	1.35	0.08	3.81	5.33
035	60.31	0.46	57.61	0.46	1.2	0.08	1.35	0.08	3.81	5.33
036	63.48	0.46	60.78	0.46	1.2	0.08	1.35	0.08	3.81	5.33
037	66.66	0.46	63.96	0.46	1.2	0.08	1.35	0.08	3.81	5.33
038	69.83	0.51	67.13	0.51	1.2	0.08	1.35	0.08	3.81	5.33
039	73.01	0.51	70.31	0.51	1.2	0.08	1.35	0.08	3.81	5.33
040	76.18	0.51	73.48	0.51	1.2	0.08	1.35	0.08	3.81	5.33
041	79.36	0.61	76.66	0.61	1.2	0.08	1.35	0.08	3.81	5.33
042	85.71	0.61	83.01	0.61	1.2	0.08	1.35	0.08	3.81	5.33
043	92.06	0.61	89.36	0.61	1.2	0.08	1.35	0.08	3.81	5.33
044	98.41	0.69	95.71	0.69	1.2	0.08	1.35	0.08	3.81	5.33
045	104.76	0.69	102.06	0.69	1.2	0.08	1.35	0.08	3.81	5.33
046	111.11	0.76	108.41	0.76	1.2	0.08	1.35	0.08	3.81	5.33
047	117.46	0.76	114.76	0.76	1.2	0.08	1.35	0.08	3.81	5.33
048	123.81	0.76	121.11	0.76	1.2	0.08	1.35	0.08	3.81	5.33
049	130.16	0.94	127.46	0.94	1.2	0.08	1.35	0.08	3.81	5.33
050	136.51	0.94	133.81	0.94	1.2	0.08	1.35	0.08	3.81	5.33
102	6.32	0.13	1.96	0.13	1.28	0.08	2.18	0.08	4.65	6.22
103	7.13	0.13	2.77	0.13	1.28	0.08	2.18	0.08	4.65	6.22
104	7.92	0.13	3.56	0.13	1.28	0.08	2.18	0.08	4.65	6.22

NOTE: Non-standard dimensions are available on request

BACKUP RING
PART NUMBER & SIZE CHART

FAP Part No.	Outside Diameter		Inside Diameter		Thickness		Width		G1	G2
	OD Ø (mm)	Tol ± (mm)	ID Ø (mm)	Tol ± (mm)	T (mm)	Tol ± (mm)	W (mm)	Tol ± (mm)		
105	8.70	0.13	4.34	0.13	1.28	0.08	2.18	0.08	4.65	6.22
106	9.49	0.13	5.13	0.13	1.28	0.08	2.18	0.08	4.65	6.22
107	10.30	0.13	5.94	0.13	1.28	0.08	2.18	0.08	4.65	6.22
108	11.09	0.13	6.73	0.13	1.28	0.08	2.18	0.08	4.65	6.22
109	12.67	0.13	8.31	0.13	1.28	0.08	2.18	0.08	4.65	6.22
110	14.27	0.13	9.91	0.13	1.28	0.08	2.18	0.08	4.65	6.22
111	15.84	0.13	11.48	0.13	1.28	0.08	2.18	0.08	4.65	6.22
112	17.44	0.13	13.08	0.13	1.28	0.08	2.18	0.08	4.65	6.22
113	19.02	0.18	14.66	0.18	1.28	0.08	2.18	0.08	4.65	6.22
114	20.62	0.23	16.26	0.23	1.28	0.08	2.18	0.08	4.65	6.22
115	22.19	0.23	17.83	0.23	1.28	0.08	2.18	0.08	4.65	6.22
116	23.79	0.23	19.43	0.23	1.28	0.08	2.18	0.08	4.65	6.22
117	25.47	0.25	21.11	0.25	1.28	0.08	2.18	0.08	4.65	6.22
118	27.04	0.25	22.68	0.25	1.28	0.08	2.18	0.08	4.65	6.22
119	28.64	0.25	24.28	0.25	1.28	0.08	2.18	0.08	4.65	6.22
120	30.22	0.25	25.86	0.25	1.28	0.08	2.18	0.08	4.65	6.22
121	31.82	0.25	27.46	0.25	1.28	0.08	2.18	0.08	4.65	6.22
122	33.39	0.25	29.03	0.25	1.28	0.08	2.18	0.08	4.65	6.22
123	34.99	0.3	30.63	0.3	1.28	0.08	2.18	0.08	4.65	6.22
124	36.57	0.3	32.21	0.3	1.28	0.08	2.18	0.08	4.65	6.22
125	38.17	0.3	33.81	0.3	1.28	0.08	2.18	0.08	4.65	6.22
126	39.74	0.3	35.38	0.3	1.28	0.08	2.18	0.08	4.65	6.22
127	41.34	0.3	36.98	0.3	1.28	0.08	2.18	0.08	4.65	6.22
128	42.92	0.3	38.56	0.3	1.28	0.08	2.18	0.08	4.65	6.22
129	44.52	0.38	40.16	0.38	1.28	0.08	2.18	0.08	4.65	6.22
130	46.09	0.38	41.73	0.38	1.28	0.08	2.18	0.08	4.65	6.22
131	47.69	0.38	43.33	0.38	1.28	0.08	2.18	0.08	4.65	6.22
132	49.27	0.38	44.91	0.38	1.28	0.08	2.18	0.08	4.65	6.22
133	50.87	0.38	46.51	0.38	1.28	0.08	2.18	0.08	4.65	6.22
134	52.44	0.38	48.08	0.38	1.28	0.08	2.18	0.08	4.65	6.22
135	54.04	0.43	49.68	0.43	1.28	0.08	2.18	0.08	4.65	6.22
136	55.62	0.43	51.26	0.43	1.28	0.08	2.18	0.08	4.65	6.22
137	57.22	0.43	52.86	0.43	1.28	0.08	2.18	0.08	4.65	6.22
138	58.79	0.43	54.43	0.43	1.28	0.08	2.18	0.08	4.65	6.22
139	60.39	0.43	56.03	0.43	1.28	0.08	2.18	0.08	4.65	6.22
140	61.97	0.43	57.61	0.43	1.28	0.08	2.18	0.08	4.65	6.22
141	63.57	0.51	59.21	0.51	1.28	0.08	2.18	0.08	4.65	6.22
142	65.14	0.51	60.78	0.51	1.28	0.08	2.18	0.08	4.65	6.22
143	66.74	0.51	62.38	0.51	1.28	0.08	2.18	0.08	4.65	6.22
144	68.32	0.51	63.96	0.51	1.28	0.08	2.18	0.08	4.65	6.22
145	69.92	0.51	65.56	0.51	1.28	0.08	2.18	0.08	4.65	6.22
146	71.49	0.51	67.13	0.51	1.28	0.08	2.18	0.08	4.65	6.22
147	73.09	0.56	68.73	0.56	1.28	0.08	2.18	0.08	4.65	6.22
148	74.67	0.56	70.31	0.56	1.28	0.08	2.18	0.08	4.65	6.22
149	76.27	0.56	71.91	0.56	1.28	0.08	2.18	0.08	4.65	6.22
150	77.84	0.56	73.48	0.56	1.28	0.08	2.18	0.08	4.65	6.22
151	81.02	0.61	76.66	0.61	1.28	0.08	2.18	0.08	4.65	6.22
152	87.37	0.61	83.01	0.61	1.28	0.08	2.18	0.08	4.65	6.22
153	93.72	0.61	89.36	0.61	1.28	0.08	2.18	0.08	4.65	6.22
154	100.07	0.71	95.71	0.71	1.28	0.08	2.18	0.08	4.65	6.22

NOTE: Non-standard dimensions are available on request

BACKUP RING
PART NUMBER & SIZE CHART

FAP Part No.	Outside Diameter		Inside Diameter		Thickness		Width		G1	G2
	OD Ø (mm)	Tol ± (mm)	ID Ø (mm)	Tol ± (mm)	T (mm)	Tol ± (mm)	W (mm)	Tol ± (mm)		
155	106.42	0.71	102.06	0.71	1.28	0.08	2.18	0.08	4.65	6.22
156	112.77	0.76	108.41	0.76	1.28	0.08	2.18	0.08	4.65	6.22
157	119.12	0.76	114.76	0.76	1.28	0.08	2.18	0.08	4.65	6.22
158	125.47	0.76	121.11	0.76	1.28	0.08	2.18	0.08	4.65	6.22
159	131.82	0.89	127.46	0.89	1.28	0.08	2.18	0.08	4.65	6.22
160	138.17	0.89	133.81	0.89	1.28	0.08	2.18	0.08	4.65	6.22
161	144.52	0.89	140.16	0.89	1.28	0.08	2.18	0.08	4.65	6.22
162	150.87	0.89	146.51	0.89	1.28	0.08	2.18	0.08	4.65	6.22
163	157.22	0.89	152.86	0.89	1.28	0.08	2.18	0.08	4.65	6.22
164	163.57	1.02	159.21	1.02	1.28	0.08	2.18	0.08	4.65	6.22
165	169.92	1.02	165.56	1.02	1.28	0.08	2.18	0.08	4.65	6.22
166	176.27	1.02	171.91	1.02	1.28	0.08	2.18	0.08	4.65	6.22
167	182.62	1.02	178.26	1.02	1.28	0.08	2.18	0.08	4.65	6.22
168	188.97	1.14	184.61	1.14	1.28	0.08	2.18	0.08	4.65	6.22
169	195.32	1.14	190.96	1.14	1.28	0.08	2.18	0.08	4.65	6.22
170	201.67	1.14	197.31	1.14	1.28	0.08	2.18	0.08	4.65	6.22
171	208.02	1.14	203.66	1.14	1.28	0.08	2.18	0.08	4.65	6.22
172	214.37	1.27	210.01	1.27	1.28	0.08	2.18	0.08	4.65	6.22
173	220.72	1.27	216.36	1.27	1.28	0.08	2.18	0.08	4.65	6.22
174	227.07	1.27	222.71	1.27	1.28	0.08	2.18	0.08	4.65	6.22
175	233.42	1.27	229.06	1.27	1.28	0.08	2.18	0.08	4.65	6.22
176	239.77	1.4	235.41	1.4	1.28	0.08	2.18	0.08	4.65	6.22
177	246.12	1.4	241.76	1.4	1.28	0.08	2.18	0.08	4.65	6.22
178	252.47	1.4	248.11	1.4	1.28	0.08	2.18	0.08	4.65	6.22
201	11.13	0.13	5.13	0.13	1.23	0.08	3	0.1	5.97	7.72
202	12.73	0.13	6.73	0.13	1.23	0.08	3	0.1	5.97	7.72
203	14.31	0.13	8.31	0.13	1.23	0.08	3	0.1	5.97	7.72
204	15.91	0.13	9.91	0.13	1.23	0.08	3	0.1	5.97	7.72
205	17.56	0.13	11.56	0.13	1.23	0.08	3	0.1	5.97	7.72
206	19.16	0.13	13.16	0.13	1.23	0.08	3	0.1	5.97	7.72
207	20.73	0.18	14.73	0.18	1.23	0.08	3	0.1	5.97	7.72
208	22.33	0.23	16.33	0.23	1.23	0.08	3	0.1	5.97	7.72
209	23.91	0.23	17.91	0.23	1.23	0.08	3	0.1	5.97	7.72
210	25.46	0.25	19.46	0.25	1.23	0.08	3	0.1	5.97	7.72
211	27.03	0.25	21.03	0.25	1.23	0.08	3	0.1	5.97	7.72
212	28.63	0.25	22.63	0.25	1.23	0.08	3	0.1	5.97	7.72
213	30.21	0.25	24.21	0.25	1.23	0.08	3	0.1	5.97	7.72
214	31.81	0.25	25.81	0.25	1.23	0.08	3	0.1	5.97	7.72
215	33.38	0.25	27.38	0.25	1.23	0.08	3	0.1	5.97	7.72
216	34.98	0.3	28.98	0.3	1.23	0.08	3	0.1	5.97	7.72
217	36.56	0.3	30.56	0.3	1.23	0.08	3	0.1	5.97	7.72
218	38.16	0.3	32.16	0.3	1.23	0.08	3	0.1	5.97	7.72
219	39.88	0.3	33.88	0.3	1.23	0.08	3	0.1	5.97	7.72
220	41.48	0.3	35.48	0.3	1.23	0.08	3	0.1	5.97	7.72
221	43.06	0.3	37.06	0.3	1.23	0.08	3	0.1	5.97	7.72
222	44.66	0.38	38.66	0.38	1.23	0.08	3	0.1	5.97	7.72
223	47.83	0.38	41.83	0.38	1.23	0.08	3	0.1	5.97	7.72
224	51.01	0.38	45.01	0.38	1.23	0.08	3	0.1	5.97	7.72
225	54.18	0.46	48.18	0.46	1.23	0.08	3	0.1	5.97	7.72
226	57.36	0.46	51.36	0.46	1.23	0.08	3	0.1	5.97	7.72

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BACKUP RING
PART NUMBER & SIZE CHART

FAP Part No.	Outside Diameter		Inside Diameter		Thickness		Width		G1	G2
	OD Ø (mm)	Tol ± (mm)	ID Ø (mm)	Tol ± (mm)	T (mm)	Tol ± (mm)	W (mm)	Tol ± (mm)		
227	60.53	0.46	54.53	0.46	1.23	0.08	3	0.1	5.97	7.72
228	63.71	0.51	57.71	0.51	1.23	0.08	3	0.1	5.97	7.72
229	66.88	0.51	60.88	0.51	1.23	0.08	3	0.1	5.97	7.72
230	70.06	0.51	64.06	0.51	1.23	0.08	3	0.1	5.97	7.72
231	72.83	0.51	66.83	0.51	1.23	0.08	3	0.1	5.97	7.72
232	76.00	0.61	70	0.61	1.23	0.08	3	0.1	5.97	7.72
233	79.18	0.61	73.18	0.61	1.23	0.08	3	0.1	5.97	7.72
234	82.35	0.61	76.35	0.61	1.23	0.08	3	0.1	5.97	7.72
235	85.53	0.61	79.53	0.61	1.23	0.08	3	0.1	5.97	7.72
236	88.70	0.61	82.7	0.61	1.23	0.08	3	0.1	5.97	7.72
237	91.88	0.61	85.88	0.61	1.23	0.08	3	0.1	5.97	7.72
238	95.05	0.61	89.05	0.61	1.23	0.08	3	0.1	5.97	7.72
239	98.23	0.71	92.23	0.71	1.23	0.08	3	0.1	5.97	7.72
240	101.40	0.71	95.4	0.71	1.23	0.08	3	0.1	5.97	7.72
241	104.58	0.71	98.58	0.71	1.23	0.08	3	0.1	5.97	7.72
242	107.75	0.71	101.75	0.71	1.23	0.08	3	0.1	5.97	7.72
243	110.93	0.71	104.93	0.71	1.23	0.08	3	0.1	5.97	7.72
244	114.10	0.76	108.1	0.76	1.23	0.08	3	0.1	5.97	7.72
245	117.28	0.76	111.28	0.76	1.23	0.08	3	0.1	5.97	7.72
246	120.45	0.76	114.45	0.76	1.23	0.08	3	0.1	5.97	7.72
247	123.63	0.76	117.63	0.76	1.23	0.08	3	0.1	5.97	7.72
248	127.11	0.76	121.11	0.76	1.23	0.08	3	0.1	5.97	7.72
249	130.28	0.89	124.28	0.89	1.23	0.08	3	0.1	5.97	7.72
250	133.46	0.89	127.46	0.89	1.23	0.08	3	0.1	5.97	7.72
251	136.63	0.89	130.63	0.89	1.23	0.08	3	0.1	5.97	7.72
252	139.81	0.89	133.81	0.89	1.23	0.08	3	0.1	5.97	7.72
253	142.98	0.89	136.98	0.89	1.23	0.08	3	0.1	5.97	7.72
254	146.16	0.89	140.16	0.89	1.23	0.08	3	0.1	5.97	7.72
255	149.33	0.89	143.33	0.89	1.23	0.08	3	0.1	5.97	7.72
256	152.51	0.89	146.51	0.89	1.23	0.08	3	0.1	5.97	7.72
257	155.68	0.89	149.68	0.89	1.23	0.08	3	0.1	5.97	7.72
258	158.86	0.89	152.86	0.89	1.23	0.08	3	0.1	5.97	7.72
259	165.21	1.02	159.21	1.02	1.23	0.08	3	0.1	5.97	7.72
260	171.56	1.02	165.56	1.02	1.23	0.08	3	0.1	5.97	7.72
261	177.91	1.02	171.91	1.02	1.23	0.08	3	0.1	5.97	7.72
262	184.26	1.02	178.26	1.02	1.23	0.08	3	0.1	5.97	7.72
263	190.61	1.14	184.61	1.14	1.23	0.08	3	0.1	5.97	7.72
264	196.96	1.14	190.96	1.14	1.23	0.08	3	0.1	5.97	7.72
265	203.31	1.14	197.31	1.14	1.23	0.08	3	0.1	5.97	7.72
266	209.66	1.14	203.66	1.14	1.23	0.08	3	0.1	5.97	7.72
267	216.01	1.27	210.01	1.27	1.23	0.08	3	0.1	5.97	7.72
268	222.36	1.27	216.36	1.27	1.23	0.08	3	0.1	5.97	7.72
269	228.71	1.27	222.71	1.27	1.23	0.08	3	0.1	5.97	7.72
270	235.06	1.27	229.06	1.27	1.23	0.08	3	0.1	5.97	7.72
271	241.41	1.4	235.41	1.4	1.23	0.08	3	0.1	5.97	7.72
272	247.76	1.4	241.76	1.4	1.23	0.08	3	0.1	5.97	7.72
273	254.11	1.4	248.11	1.4	1.23	0.08	3	0.1	5.97	7.72
274	260.46	1.4	254.46	1.4	1.23	0.08	3	0.1	5.97	7.72
275	273.16	1.4	267.16	1.4	1.23	0.08	3	0.1	5.97	7.72
276	285.86	1.65	279.86	1.65	1.23	0.08	3	0.1	5.97	7.72

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BACKUP RING
PART NUMBER & SIZE CHART

FAP Part No.	Outside Diameter		Inside Diameter		Thickness		Width		G1	G2
	OD Ø (mm)	Tol ± (mm)	ID Ø (mm)	Tol ± (mm)	T (mm)	Tol ± (mm)	W (mm)	Tol ± (mm)		
277	298.56	1.65	292.56	1.65	1.23	0.08	3	0.1	5.97	7.72
278	311.26	1.65	305.26	1.65	1.23	0.08	3	0.1	5.97	7.72
279	336.66	1.65	330.66	1.65	1.23	0.08	3	0.1	5.97	7.72
280	362.06	1.65	356.06	1.65	1.23	0.08	3	0.1	5.97	7.72
281	387.46	1.65	381.46	1.65	1.23	0.08	3	0.1	5.97	7.72
282	412.12	1.91	406.12	1.91	1.23	0.08	3	0.1	5.97	7.72
283	437.52	2.03	431.52	2.03	1.23	0.08	3	0.1	5.97	7.72
284	462.92	2.16	456.92	2.16	1.23	0.08	3	0.1	5.97	7.72
309	20.73	0.13	11.43	0.13	1.88	0.1	4.65	0.13	8.48	10.77
310	22.33	0.13	13.03	0.13	1.88	0.1	4.65	0.13	8.48	10.77
311	23.91	0.18	14.61	0.18	1.88	0.1	4.65	0.13	8.48	10.77
312	25.51	0.23	16.21	0.23	1.88	0.1	4.65	0.13	8.48	10.77
313	27.08	0.23	17.78	0.23	1.88	0.1	4.65	0.13	8.48	10.77
314	28.68	0.25	19.38	0.25	1.88	0.1	4.65	0.13	8.48	10.77
315	30.26	0.25	20.96	0.25	1.88	0.1	4.65	0.13	8.48	10.77
316	31.86	0.25	22.56	0.25	1.88	0.1	4.65	0.13	8.48	10.77
317	33.43	0.25	24.13	0.25	1.88	0.1	4.65	0.13	8.48	10.77
318	35.03	0.25	25.73	0.25	1.88	0.1	4.65	0.13	8.48	10.77
319	36.61	0.25	27.31	0.25	1.88	0.1	4.65	0.13	8.48	10.77
320	38.21	0.3	28.91	0.3	1.88	0.1	4.65	0.13	8.48	10.77
321	39.78	0.3	30.48	0.3	1.88	0.1	4.65	0.13	8.48	10.77
322	41.38	0.3	32.08	0.3	1.88	0.1	4.65	0.13	8.48	10.77
323	42.73	0.3	33.43	0.3	1.88	0.1	4.65	0.13	8.48	10.77
324	44.56	0.3	35.26	0.3	1.88	0.1	4.65	0.13	8.48	10.77
325	47.73	0.38	38.43	0.38	1.88	0.1	4.65	0.13	8.48	10.77
326	50.91	0.38	41.61	0.38	1.88	0.1	4.65	0.13	8.48	10.77
327	54.08	0.38	44.78	0.38	1.88	0.1	4.65	0.13	8.48	10.77
328	57.26	0.38	47.96	0.38	1.88	0.1	4.65	0.13	8.48	10.77
329	60.43	0.46	51.13	0.46	1.88	0.1	4.65	0.13	8.48	10.77
330	63.61	0.46	54.31	0.46	1.88	0.1	4.65	0.13	8.48	10.77
331	66.91	0.46	57.61	0.46	1.88	0.1	4.65	0.13	8.48	10.77
332	70.08	0.46	60.78	0.46	1.88	0.1	4.65	0.13	8.48	10.77
333	73.26	0.51	63.96	0.51	1.88	0.1	4.65	0.13	8.48	10.77
334	76.43	0.51	67.13	0.51	1.88	0.1	4.65	0.13	8.48	10.77
335	79.61	0.51	70.31	0.51	1.88	0.1	4.65	0.13	8.48	10.77
336	82.78	0.51	73.48	0.51	1.88	0.1	4.65	0.13	8.48	10.77
337	85.96	0.61	76.66	0.61	1.88	0.1	4.65	0.13	8.48	10.77
338	89.13	0.61	79.83	0.61	1.88	0.1	4.65	0.13	8.48	10.77
339	92.43	0.61	83.13	0.61	1.88	0.1	4.65	0.13	8.48	10.77
340	95.61	0.61	86.31	0.61	1.88	0.1	4.65	0.13	8.48	10.77
341	98.78	0.61	89.48	0.61	1.88	0.1	4.65	0.13	8.48	10.77
342	101.96	0.71	92.66	0.71	1.88	0.1	4.65	0.13	8.48	10.77
343	105.13	0.71	95.83	0.71	1.88	0.1	4.65	0.13	8.48	10.77
344	108.31	0.71	99.01	0.71	1.88	0.1	4.65	0.13	8.48	10.77
345	111.61	0.71	102.31	0.71	1.88	0.1	4.65	0.13	8.48	10.77
346	114.79	0.71	105.49	0.71	1.88	0.1	4.65	0.13	8.48	10.77
347	117.96	0.76	108.66	0.76	1.88	0.1	4.65	0.13	8.48	10.77
348	121.14	0.76	111.84	0.76	1.88	0.1	4.65	0.13	8.48	10.77
349	124.31	0.76	115.01	0.76	1.88	0.1	4.65	0.13	8.48	10.77
350	127.49	0.76	118.19	0.76	1.88	0.1	4.65	0.13	8.48	10.77

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BACKUP RING
PART NUMBER & SIZE CHART

FAP Part No.	Outside Diameter		Inside Diameter		Thickness		Width		G1	G2
	OD Ø (mm)	Tol ± (mm)	ID Ø (mm)	Tol ± (mm)	T (mm)	Tol ± (mm)	W (mm)	Tol ± (mm)		
351	130.66	0.76	121.36	0.76	1.88	0.1	4.65	0.13	8.48	10.77
352	133.84	0.76	124.54	0.76	1.88	0.1	4.65	0.13	8.48	10.77
353	137.01	0.94	127.71	0.94	1.88	0.1	4.65	0.13	8.48	10.77
354	140.19	0.94	130.89	0.94	1.88	0.1	4.65	0.13	8.48	10.77
355	143.36	0.94	134.06	0.94	1.88	0.1	4.65	0.13	8.48	10.77
356	146.54	0.94	137.24	0.94	1.88	0.1	4.65	0.13	8.48	10.77
357	149.71	0.94	140.41	0.94	1.88	0.1	4.65	0.13	8.48	10.77
358	152.89	0.94	143.59	0.94	1.88	0.1	4.65	0.13	8.48	10.77
359	156.06	0.94	146.76	0.94	1.88	0.1	4.65	0.13	8.48	10.77
360	159.24	0.94	149.94	0.94	1.88	0.1	4.65	0.13	8.48	10.77
361	162.41	0.94	153.11	0.94	1.88	0.1	4.65	0.13	8.48	10.77
362	168.76	1.02	159.46	1.02	1.88	0.1	4.65	0.13	8.48	10.77
363	175.11	1.02	165.81	1.02	1.88	0.1	4.65	0.13	8.48	10.77
364	181.46	1.02	172.16	1.02	1.88	0.1	4.65	0.13	8.48	10.77
365	187.81	1.02	178.51	1.02	1.88	0.1	4.65	0.13	8.48	10.77
366	194.16	1.14	184.86	1.14	1.88	0.1	4.65	0.13	8.48	10.77
367	200.51	1.14	191.21	1.14	1.88	0.1	4.65	0.13	8.48	10.77
368	206.86	1.14	197.56	1.14	1.88	0.1	4.65	0.13	8.48	10.77
369	213.21	1.14	203.91	1.14	1.88	0.1	4.65	0.13	8.48	10.77
370	219.56	1.27	210.26	1.27	1.88	0.1	4.65	0.13	8.48	10.77
371	225.91	1.27	216.61	1.27	1.88	0.1	4.65	0.13	8.48	10.77
372	232.26	1.27	222.96	1.27	1.88	0.1	4.65	0.13	8.48	10.77
373	238.61	1.27	229.31	1.27	1.88	0.1	4.65	0.13	8.48	10.77
374	244.96	1.4	235.66	1.4	1.88	0.1	4.65	0.13	8.48	10.77
375	251.31	1.4	242.01	1.4	1.88	0.1	4.65	0.13	8.48	10.77
376	257.66	1.4	248.36	1.4	1.88	0.1	4.65	0.13	8.48	10.77
377	264.01	1.4	254.71	1.4	1.88	0.1	4.65	0.13	8.48	10.77
378	276.71	1.52	267.41	1.52	1.88	0.1	4.65	0.13	8.48	10.77
379	289.41	1.52	280.11	1.52	1.88	0.1	4.65	0.13	8.48	10.77
380	302.11	1.65	292.81	1.65	1.88	0.1	4.65	0.13	8.48	10.77
381	314.81	1.65	305.51	1.65	1.88	0.1	4.65	0.13	8.48	10.77
382	340.21	1.65	330.91	1.65	1.88	0.1	4.65	0.13	8.48	10.77
383	365.61	1.78	356.31	1.78	1.88	0.1	4.65	0.13	8.48	10.77
384	391.01	1.78	381.71	1.78	1.88	0.1	4.65	0.13	8.48	10.77
385	415.90	1.91	406.6	1.91	1.88	0.1	4.65	0.13	8.48	10.77
386	441.30	2.03	432	2.03	1.88	0.1	4.65	0.13	8.48	10.77
387	466.70	2.16	457.4	2.16	1.88	0.1	4.65	0.13	8.48	10.77
388	492.05	2.29	482.75	2.29	1.88	0.1	4.65	0.13	8.48	10.77
389	517.45	2.41	508.15	2.41	1.88	0.1	4.65	0.13	8.48	10.77
390	542.85	2.41	533.55	2.41	1.88	0.1	4.65	0.13	8.48	10.77
391	568.25	2.54	558.95	2.54	1.88	0.1	4.65	0.13	8.48	10.77
392	593.32	2.67	584.02	2.67	1.88	0.1	4.65	0.13	8.48	10.77
393	618.72	2.79	609.42	2.79	1.88	0.1	4.65	0.13	8.48	10.77
394	644.12	2.92	634.82	2.92	1.88	0.1	4.65	0.13	8.48	10.77
395	669.52	3.05	660.22	3.05	1.88	0.1	4.65	0.13	8.48	10.77
425	127.58	0.84	115.6	0.84	2.91	0.13	5.99	0.15	12.07	14.71
426	130.75	0.84	118.77	0.84	2.91	0.13	5.99	0.15	12.07	14.71
427	133.93	0.84	121.95	0.84	2.91	0.13	5.99	0.15	12.07	14.71
428	137.10	0.84	125.12	0.84	2.91	0.13	5.99	0.15	12.07	14.71
429	140.28	0.94	128.3	0.94	2.91	0.13	5.99	0.15	12.07	14.71

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BACKUP RING
PART NUMBER & SIZE CHART

FAP Part No.	Outside Diameter		Inside Diameter		Thickness		Width		G1	G2
	OD Ø (mm)	Tol ± (mm)	ID Ø (mm)	Tol ± (mm)	T (mm)	Tol ± (mm)	W (mm)	Tol ± (mm)		
430	143.45	0.94	131.47	0.94	2.91	0.13	5.99	0.15	12.07	14.71
431	146.63	0.94	134.65	0.94	2.91	0.13	5.99	0.15	12.07	14.71
432	149.80	0.94	137.82	0.94	2.91	0.13	5.99	0.15	12.07	14.71
433	152.98	0.94	141	0.94	2.91	0.13	5.99	0.15	12.07	14.71
434	156.15	0.94	144.17	0.94	2.91	0.13	5.99	0.15	12.07	14.71
435	159.33	0.94	147.35	0.94	2.91	0.13	5.99	0.15	12.07	14.71
436	162.50	0.94	150.52	0.94	2.91	0.13	5.99	0.15	12.07	14.71
437	165.68	0.94	153.7	0.94	2.91	0.13	5.99	0.15	12.07	14.71
438	171.34	1.02	159.36	1.02	2.91	0.13	5.99	0.15	12.07	14.71
439	177.69	1.02	165.71	1.02	2.91	0.13	5.99	0.15	12.07	14.71
440	184.04	1.02	172.06	1.02	2.91	0.13	5.99	0.15	12.07	14.71
441	190.39	1.02	178.41	1.02	2.91	0.13	5.99	0.15	12.07	14.71
442	196.74	1.14	184.76	1.14	2.91	0.13	5.99	0.15	12.07	14.71
443	203.09	1.14	191.11	1.14	2.91	0.13	5.99	0.15	12.07	14.71
444	209.44	1.14	197.46	1.14	2.91	0.13	5.99	0.15	12.07	14.71
445	215.79	1.14	203.81	1.14	2.91	0.13	5.99	0.15	12.07	14.71
446	228.49	1.4	216.51	1.4	2.91	0.13	5.99	0.15	12.07	14.71
447	241.19	1.4	229.21	1.4	2.91	0.13	5.99	0.15	12.07	14.71
448	253.89	1.4	241.91	1.4	2.91	0.13	5.99	0.15	12.07	14.71
449	266.59	1.4	254.61	1.4	2.91	0.13	5.99	0.15	12.07	14.71
450	279.29	1.52	267.31	1.52	2.91	0.13	5.99	0.15	12.07	14.71
451	291.99	1.52	280.01	1.52	2.91	0.13	5.99	0.15	12.07	14.71
452	304.69	1.52	292.71	1.52	2.91	0.13	5.99	0.15	12.07	14.71
453	317.39	1.52	305.41	1.52	2.91	0.13	5.99	0.15	12.07	14.71
454	330.09	1.52	318.11	1.52	2.91	0.13	5.99	0.15	12.07	14.71
455	342.79	1.52	330.81	1.52	2.91	0.13	5.99	0.15	12.07	14.71
456	355.49	1.78	343.51	1.78	2.91	0.13	5.99	0.15	12.07	14.71
457	368.19	1.78	356.21	1.78	2.91	0.13	5.99	0.15	12.07	14.71
458	380.89	1.78	368.91	1.78	2.91	0.13	5.99	0.15	12.07	14.71
459	393.59	1.78	381.61	1.78	2.91	0.13	5.99	0.15	12.07	14.71
460	406.29	1.78	394.31	1.78	2.91	0.13	5.99	0.15	12.07	14.71
461	418.48	1.91	406.5	1.91	2.91	0.13	5.99	0.15	12.07	14.71
462	431.18	1.91	419.2	1.91	2.91	0.13	5.99	0.15	12.07	14.71
463	443.88	2.03	431.9	2.03	2.91	0.13	5.99	0.15	12.07	14.71
464	456.58	2.16	444.6	2.16	2.91	0.13	5.99	0.15	12.07	14.71
465	469.28	2.16	457.3	2.16	2.91	0.13	5.99	0.15	12.07	14.71
466	481.98	2.16	470	2.16	2.91	0.13	5.99	0.15	12.07	14.71
467	494.68	2.29	482.7	2.29	2.91	0.13	5.99	0.15	12.07	14.71
468	507.38	2.29	495.4	2.29	2.91	0.13	5.99	0.15	12.07	14.71
469	520.08	2.41	508.1	2.41	2.91	0.13	5.99	0.15	12.07	14.71
470	545.48	2.41	533.5	2.41	2.91	0.13	5.99	0.15	12.07	14.71
471	570.88	2.54	558.9	2.54	2.91	0.13	5.99	0.15	12.07	14.71
472	596.28	2.67	584.3	2.67	2.91	0.13	5.99	0.15	12.07	14.71
473	621.68	2.79	609.7	2.79	2.91	0.13	5.99	0.15	12.07	14.71
474	647.08	2.92	635.1	2.92	2.91	0.13	5.99	0.15	12.07	14.71
475	672.48	3.05	660.5	3.05	2.91	0.13	5.99	0.15	12.07	14.71

NOTE: Non-standard dimensions are available on request

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