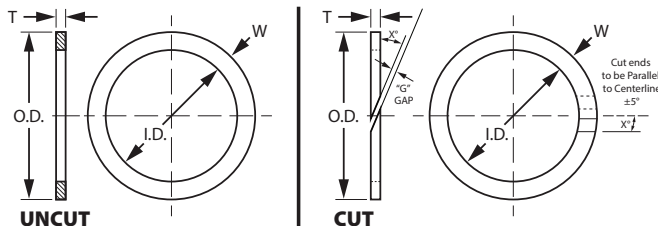
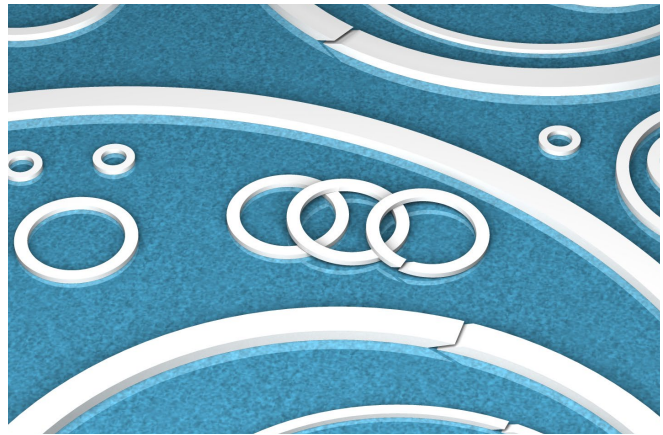


# TECHNICAL BULLETIN: PTFE BACK-UP RINGS

PTFE Back-Up Rings are used to prevent the extrusion of Elastomeric O-Rings in a dynamic or static sealing application. Most O-Rings will begin to wear when subjected to increasing temperatures and pressures and will begin to extrude into any gaps next to the O-Ring groove. Modern applications are being designed with higher temperatures and pressure than ever before, thus making the PTFE Back-Up Ring a necessity.

When a PTFE Back-Up ring is used in conjunction with an Elastomeric O-Ring, the Back-Up ring reduces the gap that might be present and prevents O-Ring extrusion, allowing it to operate at higher pressures and temperatures. The G400 (virgin PTFE) material that is used to manufacture the Back-Up Rings can withstand greater temperatures and pressures than most elastomers, therefore it will hold up to any environment that an Elastomeric O-Ring can withstand. Most of our Back-Up Rings can be ordered in either Cut (MS28774), or Solid (MS27595) configurations. For inch sizes refer to AS568D standard dimensions. Custom sizes can be manufactured. Give IPM-TEK a call for all of your, standard or custom, PTFE Back-Up Ring needs.



Standard Metric Back-Up Ring Sizes

W	I.D.	T	W	I.D.	T	W	I.D.	T
1.5	3	1.25	2	20	1.25	2.5	90	1.25
1.5	4	1.25	2	21	1.25	2.5	95	1.25
1.5	5	1.25	2	22	1.25	2.5	100	1.25
1.5	6	1.25	2.5	25	1.25	2.5	105	1.25
1.5	7	1.25	2.5	30	1.25	2.5	106	1.25
1.5	8	1.25	2.5	35	1.25	2.5	108	1.25
1.5	9	1.25	2.5	40	1.25	2.5	110	1.25
1.5	10	1.25	2.5	45	1.25	2.5	115	1.25
2	10	1.25	2.5	50	1.25	2.5	116	1.25
2	11	1.25	2.5	52	1.25	2.5	120	1.25
2	11.2	1.25	2.5	55	1.25	2.5	125	1.25
2	12	1.25	2.5	57	1.25	2.5	126	1.25
2	12.5	1.25	2.5	58	1.25	2.5	128	1.25
2	13	1.25	2.5	60	1.25	2.5	130	1.25
2	14	1.25	2.5	62	1.25	2.5	135	1.25
2	15	1.25	2.5	65	1.25	2.5	136	1.25
2	16	1.25	2.5	70	1.25	2.5	140	1.25
2	17	1.25	2.5	75	1.25	2.5	145	1.25
2	18	1.25	2.5	80	1.25	2.5	146	1.25
2	19	1.25	2.5	85	1.25	3	22	1.25

W	I.D.	T	W	I.D.	T	W	I.D.	T
3	22.4	1.25	5	75	1.9	5	260	1.9
3	24	1.25	5	80	1.9	5	265	1.9
3	25	1.25	5	85	1.9	5	270	1.9
3	25.5	1.25	5	90	1.9	5	275	1.9
3	26	1.25	5	95	1.9	5	280	1.9
3	28	1.25	5	100	1.9	5	285	1.9
3	29	1.25	5	102	1.9	5	290	1.9
3	29.5	1.25	5	105	1.9	5	295	1.9
3	30	1.25	5	110	1.9	5	300	1.9
3	31	1.25	5	112	1.9	7.5	150	2.75
3	31.5	1.25	5	115	1.9	7.5	155	2.75
3	32	1.25	5	120	1.9	7.5	160	2.75
3	34	1.25	5	125	1.9	7.5	165	2.75
3	35	1.25	5	130	1.9	7.5	170	2.75
3	35.5	1.25	5	132	1.9	7.5	175	2.75
3	36	1.25	5	135	1.9	7.5	180	2.75
3	38	1.25	5	140	1.9	7.5	185	2.75
3	39	1.25	5	145	1.9	7.5	190	2.75
3	40	1.25	5	150	1.9	7.5	195	2.75
3	41	1.25	5	152	1.9	7.5	200	2.75
3	42	1.25	5	155	1.9	7.5	205	2.75
3	43	1.25	5	160	1.9	7.5	209	2.75
3	44	1.25	5	165	1.9	7.5	210	2.75
3	45	1.25	5	170	1.9	7.5	215	2.75
3	46	1.25	5	175	1.9	7.5	220	2.75
3	48	1.25	5	180	1.9	7.5	225	2.75
3	49	1.25	5	185	1.9	7.5	230	2.75
3	50	1.25	5	190	1.9	7.5	235	2.75
5	48	1.9	5	192	1.9	7.5	240	2.75
5	50	1.9	5	195	1.9	7.5	245	2.75
5	52	1.9	5	200	1.9	7.5	250	2.75
5	53	1.9	5	205	1.9	7.5	255	2.75
5	55	1.9	5	210	1.9	7.5	260	2.75
5	56	1.9	5	215	1.9	7.5	265	2.75
5	58	1.9	5	220	1.9	7.5	270	2.75
5	60	1.9	5	225	1.9	7.5	275	2.75
5	62	1.9	5	230	1.9	7.5	280	2.75
5	63	1.9	5	235	1.9	7.5	285	2.75
5	65	1.9	5	240	1.9	7.5	290	2.75
5	67	1.9	5	245	1.9	7.5	295	2.75
5	70	1.9	5	250	1.9	7.5	300	2.75
5	71	1.9	5	255	1.9			

All measurements  
in millimeters.

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