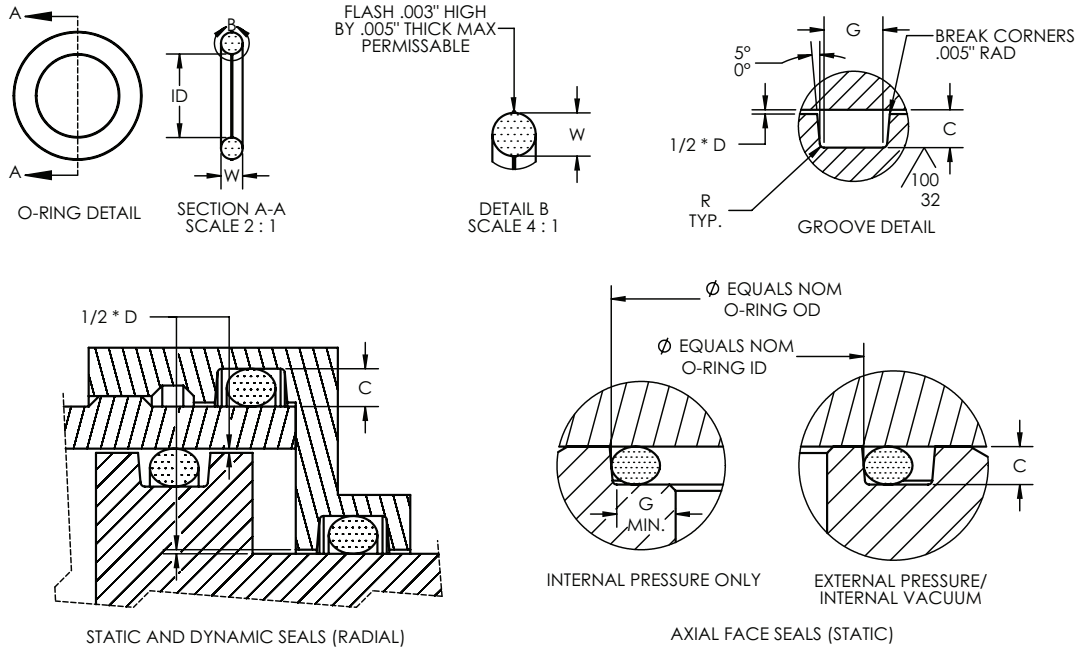


METRIC O-RING GLAND DESIGN

O Ring C.S.	Dynamic		Static		No B/U W	One B/U W	Two B/U W	Triangular	
	D	Tol.	D	Tol.				L	Tol.
1.0	0.90		0.80		1.30	-	-	1.40	
1.2	1.08	+0.00	0.96		1.56	-	-	1.60	
1.5	1.35	-0.05	1.20		1.95	-	-	2.00	
1.9	1.72		1.53		2.57	4.10	6.00	2.65	
2.0	1.80		1.60	+0.00 -0.05	2.60	4.10	5.50	2.70	
2.4	2.16		1.92		3.12	4.60	6.00	3.20	-0.00 +0.05
2.5	2.25		2.00		3.25	4.80	6.20	3.40	
2.7	2.41		2.13		3.50	4.80	6.50	3.65	
3.0	2.70	+0.06	2.40		3.90	5.40	6.80	4.00	
3.1	2.75	-0.06	2.42	+0.10 -0.10	4.00	5.50	6.90	4.10	
3.5	3.15		2.80		4.55	6.10	7.50	4.80	
4.0	3.60		3.20		5.20	6.70	8.10	5.40	
5.0	4.50		4.00		6.50	8.40	10.20	6.70	
5.7	5.18	+0.10	4.60	+0.15	7.47	9.30	11.10	7.70	-0.00
6.0	5.40	-0.10	4.80	-0.15	7.80	9.90	12.30	8.00	+0.10
8.4	7.65		6.80		11.05	13.20	15.40	11.40	

METRIC O-RINGS



## Industrial Reciprocating O-Ring Packing Glands

W s	C Gland Depth (radial) t static	Squeeze		D Diametrical Clearance Max.	G Groove Width +0.02 -0.00			R Groove Radius	Eccen- tricity Max.
		mm	%		No Backup Rings	One Backup Ring	Two Backup Rings		
1.00 ± 0.07	0.60 - 0.70	0.23 - 0.47	25% - 44%	0.10	1.4			0.2	0.05
1.50 ± 0.08	1.00 - 1.10	0.32 - 0.58	23% - 37%	0.10	2.0			0.2	0.05
1.78 ± 0.08	1.25 - 1.35	0.35 - 0.61	21% - 33%	0.10	2.4	3.4	4.4	0.2	0.05
2.00 ± 0.08	1.45 - 1.55	0.37 - 0.63	19% - 30%	0.10	2.7	3.7	4.7	0.2	0.05
2.40 ± 0.09	1.80 - 1.90	0.41 - 0.69	18% - 28%	0.10	3.3	4.7	6.1	0.2	0.05
2.50 ± 0.09	1.90 - 2.00	0.41 - 0.69	17% - 27%	0.10	3.4	4.9	6.4	0.2	0.05
2.62 ± 0.09	2.00 - 2.10	0.43 - 0.71	17% - 26%	0.13	3.6	5.1	6.6	0.3	0.08
3.00 ± 0.09	2.35 - 2.45	0.46 - 0.74	16% - 24%	0.13	4.2	5.7	7.2	0.3	0.08
3.50 ± 0.1	2.73 - 2.87	0.53 - 0.87	16% - 24%	0.15	4.8	6.3	7.8	0.3	0.10
3.55 ± 0.1	2.78 - 2.92	0.53 - 0.87	15% - 24%	0.15	4.8	6.3	7.8	0.3	0.10
4.00 ± 0.1	3.18 - 3.32	0.58 - 0.92	15% - 22%	0.15	5.4	6.9	8.4	0.3	0.10
5.00 ± 0.13	4.05 - 4.25	0.62 - 1.08	13% - 21%	0.15	6.8	8.8	10.8	0.3	0.10
5.33 ± 0.13	4.30 - 4.50	0.7 - 1.16	13% - 21%	0.15	7.2	9.2	11.2	0.5	0.15
5.70 ± 0.13	4.60 - 4.80	0.77 - 1.23	14% - 21%	0.15	7.7	9.9	12	0.5	0.15
6.99 ± 0.15	5.75 - 5.95	0.89 - 1.39	13% - 19%	0.18	9.6	12.1	14.6	0.5	0.20
8.40 ± 0.15	6.90 - 7.10	1.15 - 1.65	14% - 19%	0.18	11.5	14.6	17.6	0.5	0.20

The information shown is provided as a general guideline for O-Ring glands.  
Before machining your glands, please contact the MFP Seals Engineering Department  
to determine the correct measurements for your specific application. *Continued on next page.*



**MOR**

**Industrial O-Ring Dynamic Hydraulic Glands**

W s	C Gland Depth (radial) t static	Squeeze		D Diametrical Clearance Max.	G Groove Width +0.02 -0.00			R Groove Radius	Eccen- tricity Max.
		mm	%		No Backup Rings	One Backup Ring	Two Backup Rings		
1.00 ± 0.07	0.73 - 0.77	0.16 - 0.34	17% - 32%	0.10	1.4			0.2	0.05
1.50 ± 0.08	1.18 - 1.22	0.20 - 0.40	14% - 25%	0.10	2.0			0.2	0.05
1.78 ± 0.08	1.43 - 1.47	0.23 - 0.43	14% - 23%	0.10	2.4	3.4	4.4	0.2	0.05
2.00 ± 0.08	1.63 - 1.67	0.25 - 0.45	13% - 22%	0.10	2.7	3.7	4.7	0.2	0.05
2.40 ± 0.09	1.98 - 2.02	0.29 - 0.51	13% - 20%	0.10	3.3	4.7	6.1	0.2	0.05
2.50 ± 0.09	2.08 - 2.12	0.29 - 0.51	12% - 20%	0.10	3.4	4.9	6.4	0.2	0.05
2.62 ± 0.09	2.23 - 2.27	0.26 - 0.48	10% - 18%	0.13	3.6	5.1	6.6	0.3	0.08
3.00 ± 0.09	2.53 - 2.57	0.34 - 0.56	12% - 18%	0.13	4.2	5.7	7.2	0.3	0.08
3.50 ± 0.10	3.00 - 3.10	0.30 - 0.60	9% - 17%	0.15	4.8	6.3	7.8	0.3	0.10
3.55 ± 0.10	3.05 - 3.15	0.30 - 0.60	9% - 16%	0.15	4.8	6.3	7.8	0.3	0.10
4.00 ± 0.10	3.45 - 3.55	0.35 - 0.65	9% - 16%	0.15	5.4	6.9	8.4	0.3	0.10
5.00 ± 0.13	4.40 - 4.50	0.37 - 0.73	8% - 14%	0.15	6.8	8.8	10.8	0.3	0.10
5.33 ± 0.13	4.65 - 4.75	0.45 - 0.81	9% - 15%	0.15	7.2	9.2	11.2	0.5	0.15
5.70 ± 0.13	5.05 - 5.15	0.42 - 0.78	8% - 13%	0.15	7.7	9.9	12	0.5	0.15
6.99 ± 0.15	6.20 - 6.30	0.54 - 0.94	8% - 13%	0.18	9.6	12.1	14.6	0.5	0.20
8.40 ± 0.15	7.50 - 7.60	0.65 - 1.05	8% - 12%	0.18	11.5	14.6	17.6	0.5	0.20

**Industrial O-Ring Dynamic Pneumatic Glands**

W s	C Gland Depth (radial) t static	Squeeze		D Diametrical Clearance Max.	G Groove Width +0.02 -0.00			R Groove Radius	Eccen- tricity Max.
		mm	%		No Backup Rings	One Backup Ring	Two Backup Rings		
1.00 ± 0.07	0.78 - 0.82	0.11 - 0.29	12% - 27%	0.10	1.4			0.2	0.05
1.50 ± 0.08	1.23 - 1.27	0.15 - 0.35	11% - 22%	0.10	2.0			0.2	0.05
1.78 ± 0.08	1.53 - 1.57	0.13 - 0.33	8% - 18%	0.10	2.4	3.4	4.4	0.2	0.05
2.00 ± 0.08	1.73 - 1.77	0.15 - 0.35	8% - 17%	0.10	2.7	3.7	4.7	0.2	0.05
2.40 ± 0.09	2.08 - 2.12	0.19 - 0.41	8% - 16%	0.10	3.3	4.7	6.1	0.2	0.05
2.50 ± 0.09	2.18 - 2.22	0.19 - 0.41	8% - 16%	0.10	3.4	4.9	6.4	0.2	0.05
2.62 ± 0.09	2.33 - 2.37	0.16 - 0.38	6% - 14%	0.13	3.6	5.1	6.6	0.3	0.08
3.00 ± 0.09	2.68 - 2.72	0.19 - 0.41	7% - 13%	0.13	4.2	5.7	7.2	0.3	0.08
3.50 ± 0.10	3.15 - 3.25	0.15 - 0.45	4% - 13%	0.15	4.8	6.3	7.8	0.3	0.10
3.55 ± 0.10	3.20 - 3.30	0.15 - 0.45	4% - 12%	0.15	4.8	6.3	7.8	0.3	0.10
4.00 ± 0.10	3.60 - 3.70	0.20 - 0.50	5% - 12%	0.15	5.4	6.9	8.4	0.3	0.10
5.00 ± 0.13	4.60 - 4.70	0.17 - 0.53	3% - 10%	0.15	6.8	8.8	10.8	0.3	0.10
5.33 ± 0.13	4.85 - 4.95	0.25 - 0.61	5% - 11%	0.15	7.2	9.2	11.2	0.5	0.15
5.70 ± 0.13	5.25 - 5.35	0.22 - 0.58	4% - 10%	0.15	7.7	9.9	12	0.5	0.15
6.99 ± 0.15	6.50 - 6.60	0.24 - 0.64	4% - 9%	0.18	9.6	12.1	14.6	0.5	0.20
8.40 ± 0.15	7.85 - 7.95	0.30 - 0.70	4% - 8%	0.18	11.5	14.6	17.6	0.5	0.20

METRIC O-RINGS