

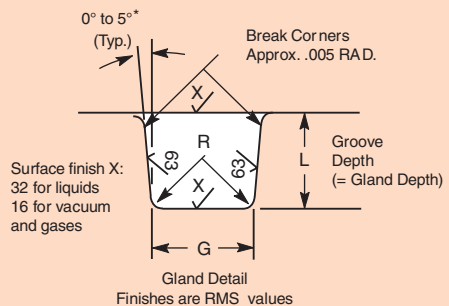
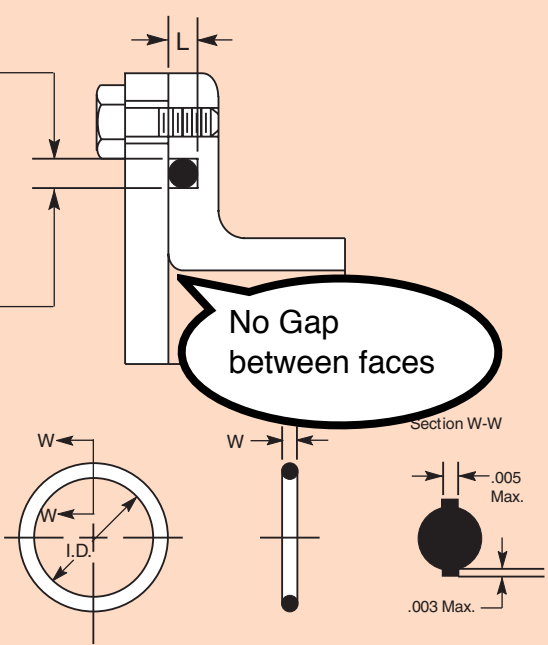
Face Seal Glands

For Internal Pressure  
(outward pressure direction)  
dimension the groove by its  
outside diameter ( $H_o$ ) and width:

$(H_o) = \text{Mean O.D. of O-ring}$   
(see Table 4-1)  
Tolerance = Minus 1% of Mean  
O.D., but not more than  
-.060

For External Pressure  
(inward pressure direction)  
dimension the groove by its  
inside diameter ( $H_i$ ) and width:

$(H_i) = \text{Mean I.D. of O-ring}$   
(see Table 4-1)  
Tolerance = Plus 1% of Mean  
I.D., but not more than  
+.060



(Refer to Design Chart 4-3 below)

O-Ring Face Seal Glands These dimensions are intended primarily for face type O-ring seals and low temperature applications.

O-Ring Size Parker No. 2	W Cross Section		L Gland Depth	Squeeze		G Groove Width		R Groove Radius
	Nominal	Actual		Actual	%	Liquids	Vacuum and Gases	
004 through 050	1/16	.070 ±.003 (1.78 mm)	.050 to .054	.013 to .023	19 to 32	.101 to .107	.084 to .089	.005 to .015
102 through 178	3/32	.103 ±.003 (2.62 mm)	.074 to .080	.020 to .032	20 to 30	.136 to .142	.120 to .125	.005 to .015
201 through 284	1/8	.139 ±.004 (3.53 mm)	.101 to .107	.028 to .042	20 to 30	.177 to .187	.158 to .164	.010 to .025
309 through 395	3/16	.210 ±.005 (5.33 mm)	.152 to .162	.043 to .063	21 to 30	.270 to .290	.239 to .244	.020 to .035
425 through 475	1/4	.275 ±.006 (6.99 mm)	.201 to .211	.058 to .080	21 to 29	.342 to .362	.309 to .314	.020 to .035
Special	3/8	.375 ±.007 (9.52 mm)	.276 to .286	.082 to .106	22 to 28	.475 to .485	.419 to .424	.030 to .045
Special	1/2	.500 ±.008 (12.7 mm)	.370 to .380	.112 to .138	22 to 27	.638 to .645	.560 to .565	.030 to .045

Design Chart 4-3: Design Chart for O-Ring Face Seal Glands