

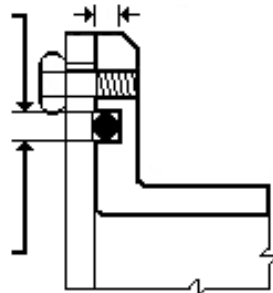
# Face Seal Gland Design Chart

Side Wall Angle is to allow for releasing of molded parts. Sidewalls of machined parts should be vertical.

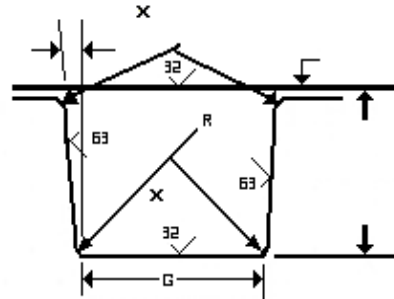
**Groove OD (Ho)**  
For Internal Pressure:  
Dimension the groove by it's OD and width.  
Ho=Mean OD of O-ring.  
Tol=-1% of Mean OD  
not > -.060

**Groove ID (Hi)**  
For External Pressure:  
Dimension the groove by it's ID and width.  
Hi=Mean ID of O-ring.  
Tol=+1% of Mean ID  
Not > +.060

GLAND DEPTH (L)



0 to 5  
(Deg. Type) Break Corners Approx. .005 RAD



## Face Seal Gland

These dimensions are intended primarily for face type seals and low temperature applications.

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