

# 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.

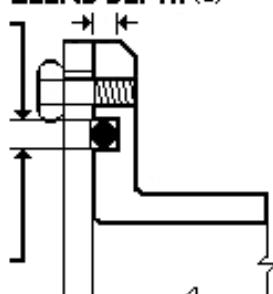
Tol=-1% of Mean OD  
not > -.060

**Groove ID (Hi)**

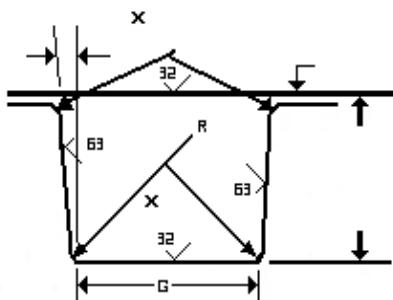
For External Pressure:

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	$.070 \pm .003$	.050	.013	19	.101	.084	.005
			to	to	to	to	to	to
			.054	.023	32	.107	.089	.015
-102 To -178	3/32	$.103 \pm .003$	.074	.020	20	.136	.120	.005
			to	to	to	to	to	to
			.080	.032	30	.142	.125	.015
-201 To -284	1/8	$.139 \pm .004$	.101	.028	20	.177	.158	.010
			to	to	to	to	to	to
			.107	.042	30	.187	.164	.025
-309 To -395	3/16	$.210 \pm .005$	.152	.043	21	.270	.239	.020
			to	To	to	to	to	to
			.162	.063	30	.290	.244	.035
-425 to -475	1/4	$.275 \pm .006$	.201	.058	21	.342	.309	.020
			to	To	to	to	to	to
			.211	.080	29	.362	.314	.035
Special	3/8	$.375 \pm .007$	.276	.082	22	.475	.419	.030
			to	To	to	to	to	to
Special	1/2	$.500 \pm .008$	.286	.106	28	.485	.424	.045
			.370	.112	22	.638	.560	.030
			.380	.138	27	.645	.565	.045

