

Gland Dimensions

Face Seal Glands

FOR INTERNAL PRESSURE
(outward pressure direction)
dimension the groove by its
outside diameter (H_o) and width:

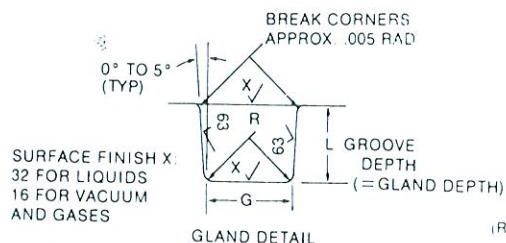
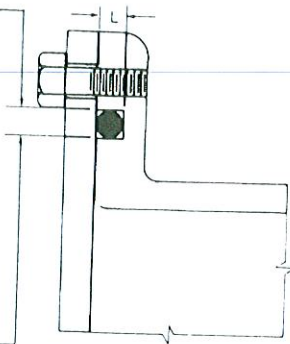
H_o = Mean O.D. of O-ring

Tolerance = Minus 1% of Mean
O.D., but not more than
-.060

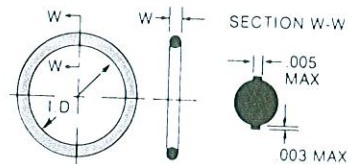
FOR EXTERNAL PRESSURE
(inward pressure direction)
dimension the groove by its
inside diameter (H_i) and width:

H_i = Mean I.D. of O-ring

Tolerance = Plus 1% of Mean
I.D., but not more than
+.060.



(Refer to design table below)



DESIGN TABLE
FOR O-RING FACE SEAL GLANDS

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

O-RING SIZE PARKER 2-	W CROSS SECTION		GLAND DEPTH	SQUEEZE		G GROOVE WIDTH		R GROOVE RADIUS
	Nominal	Actual		ACTUAL	%	LIQUIDS	VACUUM AND GASES	
004 through 050	1/16	.070 ±.003	.050 to .054	.013 to .023	19 to 32	.101 to .107	.083 to .088	.005 to .015
102 through 178	3/32	.103 ±.003	.074 to .080	.020 to .032	20 to 30	.136 to .142	.118 to .123	.005 to .015
201 through 284	1/8	.139 ±.004	.101 to .107	.028 to .042	20 to 30	.177 to .187	.157 to .163	.010 to .025
309 through 395	3/16	.210 ±.005	.152 to .162	.043 to .063	21 to 30	.270 to .290	.236 to .241	.020 to .035
425 through 475	1/4	.275 ±.006	.201 to .211	.058 to .080	21 to 29	.342 to .362	.305 to .310	.020 to .035
Special	3/8	.375 ±.007	.276 to .286	.082 to .108	22 to 28	.475 to .485	.419 to .424	.030 to .045
			.370 to .380	.112 to .138	22 to 27	.638 to .645	.560 to .565	.030 to .045