



Mobile inPHorm Design Analysis

Compound Selection

Compound No.: N0674-70
Durometer: 70
Polymer Family: Nitrile
Uses: General Purpose, MIL-G-21569 CL 1, UL Listed
Low Temp: -30°F
High Temp: 250°F
Color: BLACK

Gland Design - Radial Static

Series: 2-0XX (0.070" c/s)
Size: 2-010 (0.239" ID)
Application: Male Static Seal
Unit of Measure: in

2-010 O-Ring Dimensions (in)

	Nominal	+/-tol
Inner Diameter(ID)	0.239	0.005
Cross Section(W)	0.070	0.003

Male Static Seal Suggested Gland Dimensions

	Nominal	+tol	-tol
Groove Diameter:	.282	0.000	0.002
Groove Width:	0.093	0.005	0.000
Piston Diameter:	0.373	0.000	0.001
Bore Diameter:	.380	0.002	0.000

Resulting Tolerance Stackups

	Min	Nom	Max	Ideal
Stretch	14.75%	17.99%	20.51%	0-5%
Squeeze	15.31%	22.82%	26.94%	22-32%
Volume Fill	64.15%	78.84%	87.96%	60-90%
Diametral Clearance	0.007	0.007	0.010	> 0

Pressure Rating with single O-ring (N0674-70): 700 (psi)

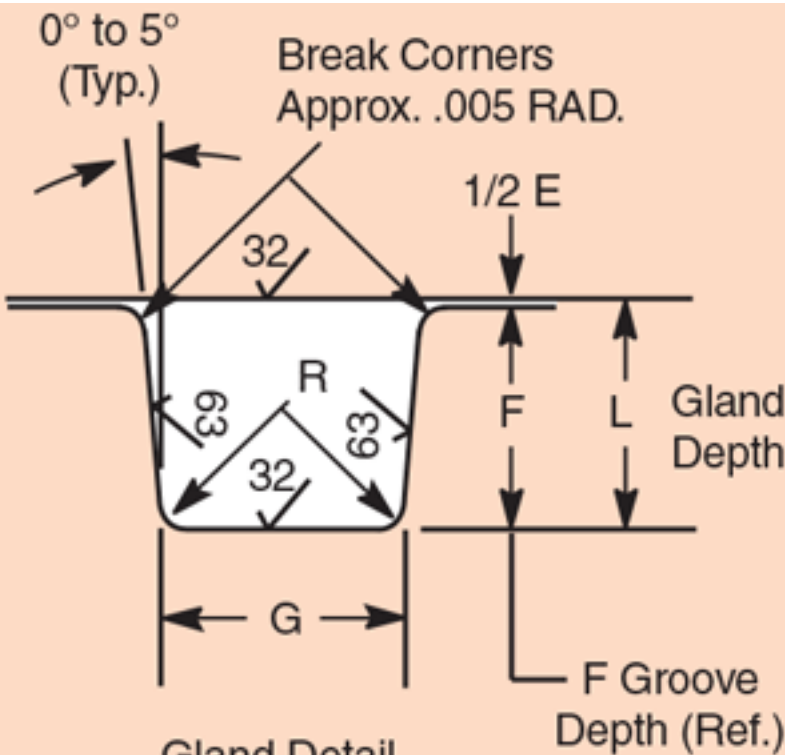
DANGER: FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF SEALS OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Note: inPHorm size calculations conform to the standard O-ring sizes per AS 568A as shown in Table B6 of the on-line REFERENCE GUIDE (Parker Catalog ORD5700). The 5 dash series sizes are non-standard and have been created to special tooling specifications. The dimensions may vary due to materials with unusual shrinkage.



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Gland Detail
Finishes are RMS values.

