Mobile inPHorm Design Analysis

Compound Selection

Compound No.:	V0747-75
Durometer:	75
Polymer Family:	Fluorocarbon
Uses:	AMS-R-83248, UL Listed
Low Temp:	-15°F
High Temp:	400°F
Color:	BLACK

Gland Design - Radial Static

Series:	Design Groove For Me
Size:	Design Groove For Me
Application:	Male Static Seal
Unit of Measure:	in

Design Groove For Me
O-Ring Dimensions (in)

	Nominal	+/-tol
Inner Diameter(ID)	.0787	0.005
Cross Section(W)	.0394	0.003

Male Static Seal
Suggested Gland Dimensions

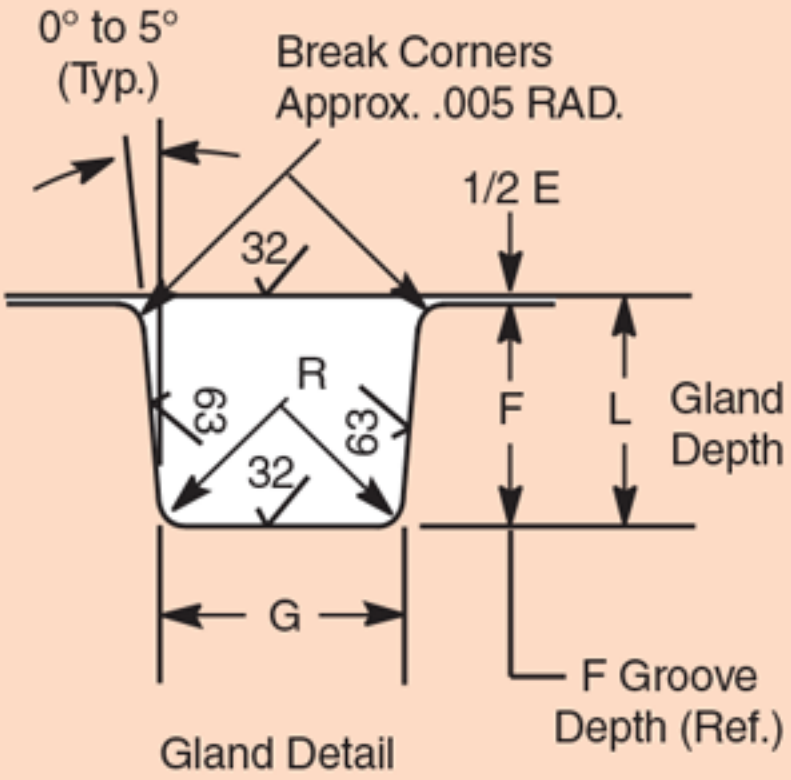
	Nominal	+tol	-tol
Groove Diameter:	0.081	0.000	0.002
Groove Width:	0.053	0.005	0.000
Piston Diameter:	0.136	0.000	0.001
Bore Diameter:	0.138	0.002	0.000

Resulting Tolerance Stackups

	Min	Nom	Max	Ideal
Stretch	None	2.53%	9.46%	0-5%
Squeeze	12.49%	26.03%	32.14%	22-32%
Volume Fill	57.80%	85.22%	105.54%	60-90%
Diametral Clearance	0.002	0.002	0.005	> 0

Selected Material: V0747-75

Note: inPHorm size calculations conform to the standard O-ring sizes per AS 568A asshown 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.



Gland Detail

Finishes are RMS values.