



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: 5-XXX
 Size: 5-164 (12.160" x 0.210")
 Application: Male Static Seal
 Unit of Measure: in

5-164 O-Ring Dimensions (in)

	Nominal	+/-tol
Inner Diameter(ID)	12.160	0.070
Cross Section(W)	0.210	0.005

Male Static Seal Suggested Gland Dimensions

	Nominal	+tol	-tol
Groove Diameter:	12.655	0.000	0.004
Groove Width:	0.284	0.002	0.003
Piston Diameter:	13.0055	0.000	0.001
Bore Diameter:	13.02396	0.000	0.006

Resulting Tolerance Stackups

	Min	Nom	Max	Ideal
Stretch	3.44%	4.07%	4.67%	0-5%
Squeeze	6.47%	9.98%	13.80%	15-21%
Volume Fill	59.27%	63.68%	69.01%	60-90%
Diametral Clearance	0.012	0.018	0.019	> 0

Please confirm availability of 5-xxx tooling by emailing ordmailbox@parker.com. Dimensions are based on standard (AN) shrinkage materials. O-rings manufactured out of compounds with different shrinkage will produce slightly different dimensions and tolerances.

Selected Material: V0747-75

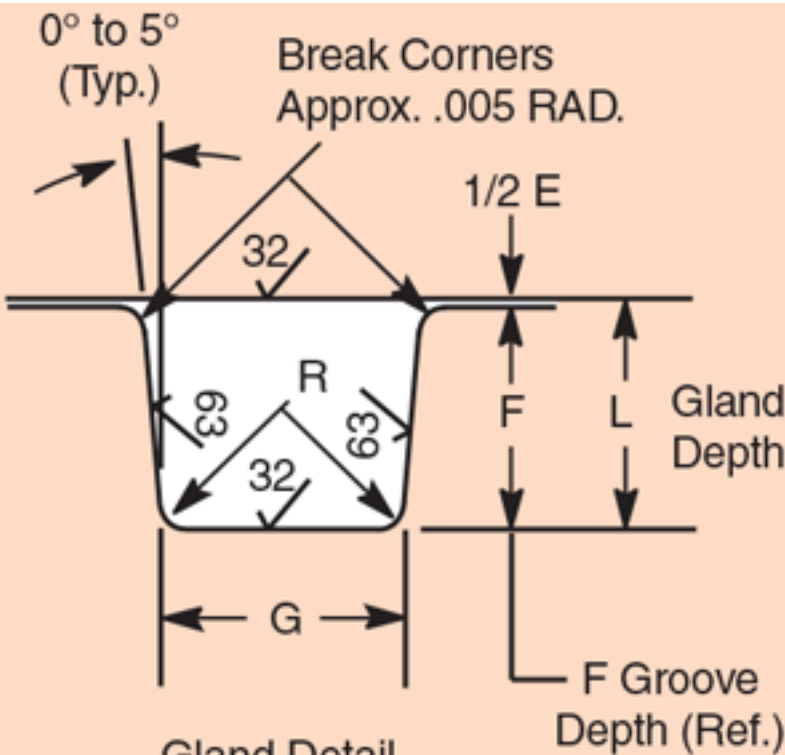
DANGER: FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF SEALS OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This software provides product options for your further investigation. Before using any product, it is important that you analyze all aspects of your application and review the information concerning the product in the current product catalog. Depending on your application, further analysis and testing may be necessary before a suitable product can be selected. Parker shall not be liable for any incidental, consequential or special damages that arise from the use of any product or this software.

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.



Mobile inPHorm Design Analysis



Gland Detail

Finishes are RMS values.

