



# O-Ring Selector

Region: North America

Unit: inch

## Service Conditions & Defining Attributes

Operating Temperature	Minimum: 73°F    Maximum: 73°F
Polymer Group	Choose...
Seal Hardness	Choose... SHA
Compound	

## O-ring Size Code

### Hardware Configuration

Sealing Case	Radial - Rod Seal
Application	Static

## Thermal Expansion & Volume Swelling

Seal	Group default	$\times 10^{-6} / K$
Rod	Inactive	$0 \times 10^{-6} / K$
Bore / Groove	Inactive	$0 \times 10^{-6} / K$
Seal max. volume swell		0 %

### Sizing Selection

Back-up Rings			Amount : 0		Width : inch		
O-ring Size Code			2-132				
OR		Nominal	Tolerance	Limit	Min	Max	
$\phi d1$	Inner diameter	1.737	AS 568 $\pm$	0.015	1.722	1.752	inch
$\phi d2$	Cross section	0.103	AS 568 $\pm$	0.003	0.100	0.106	inch
Groove		Nominal	Lower	Upper	Min	Max	
$\phi d6$	Groove	1.9120	-0.0020	0.0000	1.9100	1.9120	inch
$\phi d10$	Bore	1.7520	0.0000	0.0010	1.7520	1.7530	inch
$\phi d5$	Rod	1.7500	-0.0020	0.0000	1.7480	1.7500	inch
b	Width	0.1400	0.0000	0.0050	0.1400	0.1450	inch
r	Radius	0.0100	-0.0040	0.0040	0.0060	0.0140	inch

## Results

● Recommended 
 ⚠ Warning 
 ✖ Critical

Results	Recommendation	Concentric		Eccentric		
		Min	Max	Min	Max	
t Depth + gap		0.0800	0.0820	0.0785	0.0845	inch
s gap		0.0010	0.0025		0.0050	inch
Interference of OR outer- $\phi$	0...3	● 0.5	● 2.7			inch
Stretch of OR inner- $\phi$	0...6	⚠ (-0.2)	● 1.6			%
Compression of OR $\phi d2$	17...24	⚠ 16.8	⚠ 24.5	✖ 14.2	✖ 25.9	%
Gland fill	60...90	● 65.9	● 80.6			%
Total deformation force						lbf

### Notes

Recommendations on application design and material selection are based on available technical data and are offered as suggestions only. Each user should make his own tests to determine the suitability for his own particular use. Parker offers no express or implied warranties concerning the form, fit, or function of a product in any application.

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