



# 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

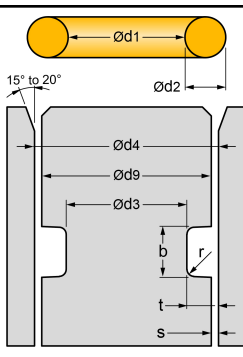
### Hardware Configuration

Sealing Case	Radial - Piston Seal
Application	Static

## Thermal Expansion & Volume Swelling

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

### Sizing Selection

	Back-up Rings			Amount : 0		Width : inch		
	O-ring Size Code			2-240				
	OR		Nominal	Tolerance	Limit	Min	Max	
	Ød1	Inner diameter	3.734	AS 568 ±	0.028	3.706	3.762	inch
	Ød2	Cross section	0.139	AS 568 ±	0.004	0.135	0.143	inch
	Groove		Nominal	Lower	Upper	Min	Max	
	Ød4	Bore	4.0000	0.0000	0.0020	4.0000	4.0020	inch
	Ød9	Piston	3.9970	-0.0010	0.0000	3.9960	3.9970	inch
	Ød3	Groove	3.7780	-0.0020	0.0000	3.7760	3.7780	inch
	b	Width	0.1870	0.0000	0.0050	0.1870	0.1920	inch
r	Radius	0.0150	-0.0040	0.0040	0.0110	0.0190	inch	

## Results

● Recommended 
 ▲ Warning 
 ✱ Critical

Results	Recommendation	Concentric		Eccentric		
		Min	Max	Min	Max	
t Depth + gap		0.1110	0.1130	0.1090	0.1160	inch
s gap		0.0015	0.0030		0.0060	inch
Stretch of OR inner- $\varnothing$	0...6	● 0.4	● 1.9			%
Compression of OR $\varnothing d2$	16...23	✱ 14.9	● 22.1	✱ 12.6	▲ 23.5	%
Gland fill	60...90	● 65.3	● 78.3			%
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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