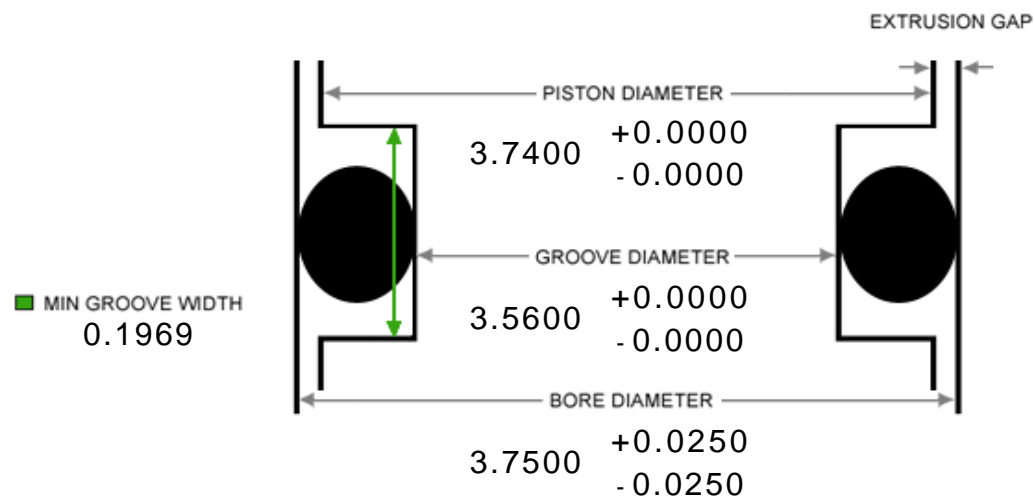


Static Concentric Piston Seal
Water

Ref: ARP110945

Input Values

	Nominal	+ Tolerance	- Tolerance
Bore Diameter	3.7500	0.0250	0.0250
Piston Diameter	3.7400	0.0000	0.0000
Groove Diameter	3.5600	0.0000	0.0000
O-Ring ID	3.484	0.000	0.000
O-Ring CS	0.139	0.000	0.000
Volume Swell	85%		



■ O-RING INSIDE DIAMETER (ID)

3.484 +0.000
- 0.000

■ O-RING CROSS SECTION (C/S)

0.139 +0.000
- 0.000



Results*

Concentric Condition

	Minimum	Nominal	Maximum
% Compression	22.66	31.65	40.65*
Extrusion Gap	-0.0075	0.005	0.0175
% Stretch	2.18	2.18	2.18
Squeeze	0.0315	0.044	0.0565

* Value out of recommended range.

*Note: The advice given is believed to be accurate and reliable, however, it is the responsibility of the user to determine its safety and suitability. The proposed design should be thoroughly tested for each specific application.

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