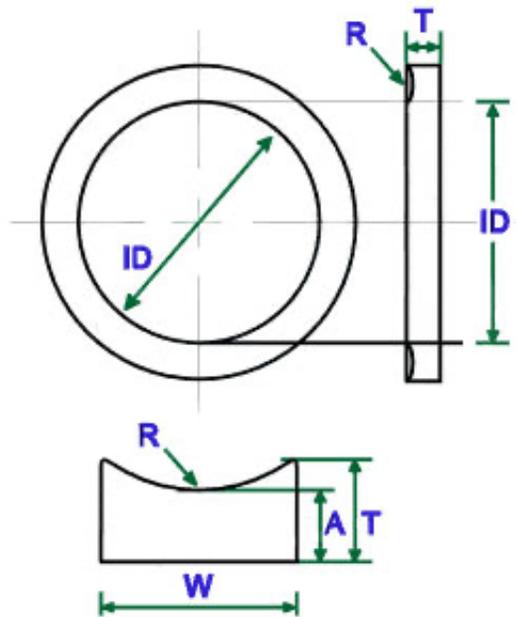


Backup Rings Overview

To view dimensions of all American Standard Sizes for Backup Rings, scroll down to see our Backup Ring Size Chart.

In a sealing application, backup rings provide added extrusion resistance and prevent damage to o-rings and seals when subjected to high pressures, larger extrusion gaps, and/or high temperatures.



Extrusion failure is one of the most common types of o-ring failure. When the internal pressure of an application becomes too great, the o-ring will actually extrude into the clearance gap. This extrudate will quickly be nibbled away causing a loss of material, and once sufficient material is lost, seal failure will quickly follow.

There are three options to prevent this, the first of which is to reduce the clearances to lower the extrusion gap. This is obviously an expensive option, so a cheaper solution is to raise the durometer of the o-ring. Even though a higher durometer o-ring offers superior extrusion resistance, this is

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often not a feasible solution due to material availability, and to the fact that harder durometer materials have limited low-pressure sealing ability. The last and best option is the addition of a backup ring. A backup ring is a ring of hard, extrusion resistant material such as high-durometer Nitrile, Viton® (FKM), or PTFE.

A backup ring is designed to fit between the o-ring and the extrusion gap and prevent the extrusion of the o-ring. Depending upon the direction of pressure in the sealing application, you can either use one backup ring or two backup rings. If unsure, it is always best to use two backup rings per one o-ring.

For more information or to request a quote on backup rings, please give us a call at [832-271-5218](tel:832-271-5218) or submit the Product Inquiry Form.

[SHOP FOR BACKUP RINGS](#)

Contoured Backup Rings

At Global O-Ring and Seal, we stock contoured elastomeric back-up rings in Nitrile 90 Durometer and Viton® 90 Durometer. We can also provide contoured backup rings in other materials by request.

➤ [N8-90 - Nitrile 90 Duro Contoured Backup Rings](#)

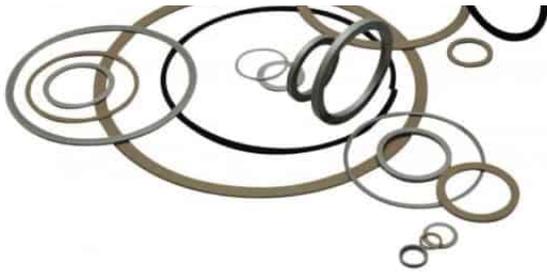
➤ [V8-90 - Viton® 90 Duro Contoured Backup Rings](#)

Teflon (PTFE) Backup Rings



We also offer a large selection of PTFE Backup Rings

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including; Solid (uncut), Single Turn (scarf cut), and Spiral (multiturn) PTFE Backup Rings.

STS - Solid Teflon

Backup Rings

ST - Split Teflon Backup Rings

SP - Spiral Teflon Backup Rings

Backup Ring Size Chart

The chart below gives the metric and inch dimensions for the most common AS568 sizes of backup rings.

NOTE: The "A" dimension, or Axial Height, applies only to the rubber contoured backup rings. PTFE backup rings are flat, so they do not have this contour.

DASH #	ID (in)	WIDTH (in)	THK (in)	A (in)	ID (mm)	WIDTH (mm)
347	4.278	0.183	0.076	0.06	108.88	4.65
348	4.403	0.183	0.076	0.06	111.84	4.65
349	4.528	0.183	0.076	0.06	115.01	4.65
350	4.653	0.183	0.076	0.06	118.19	4.65
351	4.778	0.183	0.076	0.06	121.36	4.65
352	4.903	0.183	0.076	0.06	124.54	4.65
353	5.028	0.183	0.076	0.06	127.71	4.65
354	5.153	0.183	0.076	0.06	130.89	4.65
355	5.278	0.183	0.076	0.06	134.06	4.65
356	5.403	0.183	0.076	0.06	137.24	4.65
357	5.528	0.183	0.076	0.06	140.41	4.65

358	5.653	0.183	0.076	0.06	143.59	4.65	1.93	1.52
359	5.778	0.183	0.076	0.06	146.76	4.65	1.93	1.52
360	5.903	0.183	0.076	0.06	149.94	4.65	1.93	1.52
361	6.028	0.183	0.076	0.06	153.11	4.65	1.93	1.52
362	6.278	0.183	0.076	0.06	159.46	4.65	1.93	1.52
363	6.528	0.183	0.076	0.06	165.81	4.65	1.93	1.52

Get The Backup Ring Size Chart Emailed To You!

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