About O-Rings

Inch O-rings are sized to the SAE standard AS568, which is known as a dash number. Metric O-rings are sized to the actual measured inside dia.

Applications Guide

Use the chart below to identify the best material for your application. Blank boxes indicate a poor rating or no rating. Information is intended for comparison only.

● Excellent
◓ Good

	Buna-N	Viton® Fluoro-elastomer	Silicone	EPDM	Polyurethane	Neoprene	Kalrez	PTFE	FEP	Aflas	Fluoro-silicone	Stainless Steel
Minimum Temperature, °F	–20°	0°	–40°	–40°	–20°	–30°	30°	–100°	15°	25°	–80°	–40°
Maximum Temperature, °F	225°	400°	400°	212°	180°	212°	525°	500°	400°	450°	400°	800°
Resistance to:												
Acids				◓		◓	●	●	●	●		
Alcohol	◓		◓	◓		◓	●	●	●	●	◓	●
Alkalies				●		◓	●	●	●	●		
Anilines						◓	●	●	●	◓	◓	●
Animal/Vegetable Oils	◓	◓	◓		◓	◓	●	●	●			●
Detergents			◓	●			●	●	●	●		●
Gasoline	◓	●			◓	◓	●	●	●	●	●	
Hydraulic Fluid	◓	◓				◓	●	●	●	●	●	◓
Hydrocarbons	◓	◓			◓		●	●	●	●		
Ketones							●	●	●	●	◓	●
Refrigerants				◓				●	●			●
Salt Water	◓	◓	◓	◓		◓	●	●	●	◓	●	◓
Steam				◓		◓	●	●	◓	◓	◓	
Synthetic Lubricants		●					●	●	●	●	◓	●
Water	◓			●		◓	●	●	●	◓		●
Weather		◓	◓	◓		◓	●	●	●	●	●	●

O-Ring Size-Identification Tools


Inch Gauge


Deluxe Inch Cone

Use one of these plastic tools to identify your O-ring sizes. Inch tools identify the AS568 dash number. The metric cone identifies the actual O-ring size.

Inch Gauge—This sliding gauge identifies 312 dash numbers with 1/32″ to 13″ IDs in five widths: 0.070″, 0.103″, 0.139″, 0.210″, and 0.275″. It extends to 25″ long.

Standard Inch Cone—Comes as a two-piece measuring system to identify 226 dash numbers in five widths: 0.070″, 0.103″, 0.139″, 0.210″, and 0.275″. The cone identifies 112 dash numbers with 1/4″ to 3″ IDs; an included sizing tape identifies another 114 dash numbers with 3 1/8″ to 8″ IDs.

Deluxe Inch Cone—Identifies 209 dash numbers with 1/4″ to 5 5/8″ IDs in five widths: 0.070″, 0.103″, 0.139″, 0.210″, and 0.275″.

Metric Cone—Identifies 6 to 69 mm IDs in 12 widths: 1, 1.5, 1.6, 1.9, 2, 2.4, 2.5, 3, 3.1, 3.5, 4, and 5 mm.

	Ht.		
Inch Gauge	13 1/2″	9699K51	$22.22
Standard Inch Cone	7 3/4″	9440K41	24.42

	Ht.		
Deluxe Inch Cone	17 5/8″	9440K42	$52.22
Metric Cone	7 7/8″	9440K43	20.69

Multipurpose O-Rings



Wd.

All O-rings are sized to the SAE standard AS568. They meet ASTM D2000/SAE J200.

Oil-Resistant Buna-N—The most widely used O-ring material, Buna-N also resists grease, hydraulic fluids, and abrasion. Temperature range is –20° to 250° F. Durometer is A70 (medium). Color is black.

Chemical-Resistant Viton® Fluoroelastomer—Choose these O-rings for their excellent resistance to boric acid, citric acid, isopropyl alcohol, fuels, and transmission fluids. Temperature range is 0° to 400° F. Durometer is A75 (medium). Color is black.

High-Temperature Silicone—O-rings stand up to temperatures from –80° to 450° F. They resist weather, detergents, and salt water. They're made from FDA-listed materials for use with food and beverage. Durometer is A70 (medium). Color is red.

Steam-Resistant EPDM—These O-rings are peroxide cured, so they're more resistant to high temperatures than standard EPDM. They also resist water and brake fluid. Temperature range is –70° to 250° F. Durometer is A70 (medium). Color is black.

	Fractional Size		Actual Inch Size		Oil-Resistant Buna-N			Chemical-Resistant Viton® Fluoroelastomer			High-Temperature Silicone			Steam-Resistant EPDM		
Dash No.	ID	OD	ID	OD	Pkg. Qty.		Pkg.	Pkg. Qty.		Pkg.	Pkg. Qty.		Pkg.	Pkg. Qty.		Pkg.
Width: 1/32 Fractional (0.040″ Actual)																
001	1/32	3/32	0.029″	0.109″	100	9452K111	$2.40	100	9464K101	$4.92	25	1283N11	$3.38	25	9557K111	$3.06
001-1/2	1/16	1/8	0.070″	0.150″	100	9452K311	2.26	100	9464K181	9.05	—	—	—	25	9557K199	6.23
Width: 3/64 Fractional (0.050″ Actual)																
002	3/64	9/64	0.042″	0.142″	100	9452K112	2.26	100	9464K102	4.16	25	1283N12	3.38	25	9557K112	2.68
Width: 1/16 Fractional (0.060″ Actual)																
003	1/16	3/16	0.056″	0.176″	100	9452K11	2.26	100	9464K103	4.11	25	1283N13	3.38	25	9557K113	2.82
Width: 1/16 Fractional (0.070″ Actual)																
004	5/64	13/64	0.070″	0.210″	100	9452K12	2.26	100	9464K104	4.22	25	1283N14	3.38	25	9557K61	2.73
005	3/32	7/32	0.101″	0.241″	100	9452K13	2.26	100	9464K105	4.36	25	1283N15	3.38	25	9557K62	2.73
006	1/8	1/4	0.114″	0.254″	100	9452K14	2.14	100	9464K11	4.48	25	1283N16	3.16	100	9557K457	7.29
007	5/32	9/32	0.145″	0.285″	100	9452K15	2.16	100	9464K12	4.62	25	1283N17	3.16	100	9557K458	7.57
008	3/16	5/16	0.176″	0.316″	100	9452K16	2.08	100	9464K13	4.95	25	1283N18	3.16	100	9557K459	7.65
009	7/32	11/32	0.208″	0.348″	100	9452K17	2.08	100	9464K14	5.21	25	1283N19	3.16	100	9557K461	7.75
010	1/4	3/8	0.239″	0.379″	100	9452K18	2.11	100	9464K15	5.31	25	1283N21	3.16	100	9557K462	7.75
011	5/16	7/16	0.301″	0.441″	100	9452K19	2.11	100	9464K16	6.32	25	1283N22	3.29	100	9557K463	7.93

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