

AS568 O-Rings (Inch Series)

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89 catalogued sizes, dimensioned to AS 568. Pick any row and the technical drawing redraws to it.

AS568 O-Rings (Inch Series) to AS 568 are catalogued in id 0.03-5.24 mm, with id 0.74-133.07 mm, wide 1.42-3.66 mm. 89 sizes are held in the table below, and the technical drawing redraws to whichever row you select.

Standard

AS 568

ID

0.03-5.24 mm

ID

0.74-133.07 mm

Wide

1.42-3.66 mm

Catalogued sizes

89

Dimensions are nominal values from the governing standard. Confirm the tolerance class for your application before ordering.



Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Sends the selected values to the quote form below.

Request a Quotation for AS568 O-Rings (Inch Series)

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (AS 568)

Every row below is a starting point for the customizer above — pick any size and the drawing will redraw to that row.

Dash number	Inner diameter d1 (in)	Inner diameter d1 (mm)	Cross section CS (in)	Cross section CS (mm)	Groove width (mm)	Reference standard
AS568-001	0.029	0.74	0.040	1.02	1.42	AS 568
AS568-002	0.042	1.07	0.040	1.02	1.42	AS 568
AS568-003	0.056	1.42	0.040	1.02	1.42	AS 568
AS568-004	0.070	1.78	0.040	1.02	1.42	AS 568
AS568-005	0.101	2.57	0.040	1.02	1.42	AS 568
AS568-006	0.114	2.90	0.070	1.78	2.49	AS 568
AS568-007	0.145	3.68	0.070	1.78	2.49	AS 568
AS568-008	0.176	4.47	0.070	1.78	2.49	AS 568
AS568-009	0.208	5.28	0.070	1.78	2.49	AS 568
AS568-010	0.239	6.07	0.070	1.78	2.49	AS 568
AS568-011	0.301	7.65	0.070	1.78	2.49	AS 568
AS568-012	0.364	9.25	0.070	1.78	2.49	AS 568
AS568-013	0.426	10.82	0.070	1.78	2.49	AS 568
AS568-014	0.489	12.42	0.070	1.78	2.49	AS 568
AS568-015	0.551	14.00	0.070	1.78	2.49	AS 568
AS568-016	0.614	15.60	0.070	1.78	2.49	AS 568
AS568-017	0.676	17.17	0.070	1.78	2.49	AS 568
AS568-018	0.739	18.77	0.070	1.78	2.49	AS 568
AS568-019	0.801	20.35	0.070	1.78	2.49	AS 568
AS568-020	0.864	21.95	0.070	1.78	2.49	AS 568
AS568-021	0.926	23.52	0.070	1.78	2.49	AS 568
AS568-022	0.989	25.12	0.070	1.78	2.49	AS 568
AS568-023	1.051	26.70	0.070	1.78	2.49	AS 568
AS568-024	1.114	28.30	0.070	1.78	2.49	AS 568
AS568-025	1.176	29.87	0.070	1.78	2.49	AS 568
AS568-026	1.239	31.47	0.070	1.78	2.49	AS 568

Dash number	Inner diameter d1 (in)	Inner diameter d1 (mm)	Cross section CS (in)	Cross section CS (mm)	Groove width (mm)	Reference standard
AS568-027	1.301	33.05	0.070	1.78	2.49	AS 568
AS568-028	1.364	34.65	0.070	1.78	2.49	AS 568
AS568-029	1.489	37.82	0.070	1.78	2.49	AS 568
AS568-030	1.614	41.00	0.070	1.78	2.49	AS 568
AS568-031	1.739	44.17	0.070	1.78	2.49	AS 568
AS568-032	1.864	47.35	0.070	1.78	2.49	AS 568
AS568-033	1.989	50.52	0.070	1.78	2.49	AS 568
AS568-034	2.114	53.70	0.070	1.78	2.49	AS 568
AS568-035	2.239	56.87	0.070	1.78	2.49	AS 568
AS568-036	2.364	60.05	0.070	1.78	2.49	AS 568
AS568-037	2.489	63.22	0.070	1.78	2.49	AS 568
AS568-038	2.614	66.40	0.070	1.78	2.49	AS 568
AS568-039	2.739	69.57	0.070	1.78	2.49	AS 568
AS568-040	2.864	72.75	0.070	1.78	2.49	AS 568
AS568-041	2.989	75.92	0.070	1.78	2.49	AS 568
AS568-042	3.239	82.27	0.070	1.78	2.49	AS 568
AS568-043	3.489	88.62	0.070	1.78	2.49	AS 568
AS568-044	3.739	94.97	0.070	1.78	2.49	AS 568
AS568-045	3.989	101.32	0.070	1.78	2.49	AS 568
AS568-046	4.239	107.67	0.070	1.78	2.49	AS 568
AS568-047	4.489	114.02	0.070	1.78	2.49	AS 568
AS568-048	4.739	120.37	0.070	1.78	2.49	AS 568
AS568-049	4.989	126.72	0.070	1.78	2.49	AS 568
AS568-050	5.239	133.07	0.070	1.78	2.49	AS 568
AS568-102	0.049	1.24	0.103	2.62	3.66	AS 568
AS568-103	0.081	2.06	0.103	2.62	3.66	AS 568

Dash number	Inner diameter d1 (in)	Inner diameter d1 (mm)	Cross section CS (in)	Cross section CS (mm)	Groove width (mm)	Reference standard
AS568-104	0.112	2.84	0.103	2.62	3.66	AS 568
AS568-105	0.143	3.63	0.103	2.62	3.66	AS 568
AS568-106	0.174	4.42	0.103	2.62	3.66	AS 568
AS568-107	0.206	5.23	0.103	2.62	3.66	AS 568
AS568-108	0.237	6.02	0.103	2.62	3.66	AS 568
AS568-109	0.299	7.59	0.103	2.62	3.66	AS 568
AS568-110	0.362	9.19	0.103	2.62	3.66	AS 568
AS568-111	0.424	10.77	0.103	2.62	3.66	AS 568
AS568-112	0.487	12.37	0.103	2.62	3.66	AS 568
AS568-113	0.549	13.94	0.103	2.62	3.66	AS 568
AS568-114	0.612	15.54	0.103	2.62	3.66	AS 568
AS568-115	0.674	17.12	0.103	2.62	3.66	AS 568
AS568-116	0.737	18.72	0.103	2.62	3.66	AS 568
AS568-117	0.799	20.29	0.103	2.62	3.66	AS 568
AS568-118	0.862	21.89	0.103	2.62	3.66	AS 568
AS568-119	0.924	23.47	0.103	2.62	3.66	AS 568
AS568-120	0.987	25.07	0.103	2.62	3.66	AS 568
AS568-121	1.049	26.64	0.103	2.62	3.66	AS 568
AS568-122	1.112	28.24	0.103	2.62	3.66	AS 568
AS568-123	1.174	29.82	0.103	2.62	3.66	AS 568
AS568-124	1.237	31.42	0.103	2.62	3.66	AS 568
AS568-125	1.299	32.99	0.103	2.62	3.66	AS 568
AS568-126	1.362	34.59	0.103	2.62	3.66	AS 568
AS568-127	1.424	36.17	0.103	2.62	3.66	AS 568
AS568-128	1.487	37.77	0.103	2.62	3.66	AS 568
AS568-129	1.549	39.34	0.103	2.62	3.66	AS 568

Dash number	Inner diameter d1 (in)	Inner diameter d1 (mm)	Cross section CS (in)	Cross section CS (mm)	Groove width (mm)	Reference standard
AS568-130	1.612	40.94	0.103	2.62	3.66	AS 568
AS568-131	1.674	42.52	0.103	2.62	3.66	AS 568
AS568-132	1.737	44.12	0.103	2.62	3.66	AS 568
AS568-133	1.799	45.69	0.103	2.62	3.66	AS 568
AS568-134	1.862	47.29	0.103	2.62	3.66	AS 568
AS568-135	1.924	48.87	0.103	2.62	3.66	AS 568
AS568-136	1.987	50.47	0.103	2.62	3.66	AS 568
AS568-137	2.049	52.04	0.103	2.62	3.66	AS 568
AS568-138	2.112	53.64	0.103	2.62	3.66	AS 568
AS568-139	2.174	55.22	0.103	2.62	3.66	AS 568
AS568-140	2.237	56.82	0.103	2.62	3.66	AS 568

AS568 O-Rings (Inch Series) are seals manufactured to AS 568. This page lists the full dimensional range with the key specifications engineers need to select and specify them.

What Are AS568 O-Rings (Inch Series)?

AS568 O-Rings (Inch Series) are seals defined by AS 568. They are selected by size designation and the dimensional characteristics shown below, and are available in a range of materials and finishes to suit the application and environment.

Materials & Finishes

O-rings and seals are specified by elastomer, not by steel grade: NBR (nitrile) for mineral oil and hydraulic service, FKM for higher temperature and aggressive chemistry, EPDM for water, steam and weathering, silicone for a wide temperature range in static duty, and PTFE where chemical resistance outweighs elastic recovery. Specify the compound, the hardness in Shore A and the temperature range alongside the dimensions.

Typical Applications

Preventing fluid or gas leakage at static and dynamic joints. [Read the full application guide for AS568 O-Rings \(Inch Series\) →](#)

Pricing

AS568 O-Rings (Inch Series) are supplied to order. Pricing starts from approximately US\$0.040 per piece for standard sizes in standard nitrile (NBR) 70 Shore A; final pricing depends on size, material, finish and order quantity (MOQ applies). Submit your exact configuration with the quote form above.

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.



1.

01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



2.

02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.

3.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.

4.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Video: AS568 O-Rings (Inch Series)



► Watch video: <https://www.youtube.com/watch?v=TkHeUoDsyaE>

How To Measure O-Rings / For Beginners

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

Frequently Asked Questions

What standard are AS568 O-Rings (Inch Series) manufactured to?

AS568 O-Rings (Inch Series) are manufactured to AS 568. The dimensional values on this page follow that standard.

What sizes are available for AS568 O-Rings (Inch Series)?

The table on this page lists 89 sizes for AS568 O-Rings (Inch Series), ranging from AS568-001 to AS568-140. Sizes outside the table can be quoted on request.

In which materials are AS568 O-Rings (Inch Series) supplied?

AS568 O-Rings (Inch Series) are supplied in NBR (nitrile), FKM, EPDM, silicone and PTFE, selected by fluid and temperature, with finishes including zinc plating, hot-dip galvanizing and black oxide. Choose material and finish to suit the load and the service environment for AS568 O-Rings (Inch Series).

How do I request a quotation?

Use the parametric drawing on this page to set the exact configuration (size, material, finish) and click "Request this configuration" — a specialist from Engineering Hardware will respond within one business day.

More Seals

[← Previous](#)[O-Ring Seal — ISO / DIN \(Series 160\)](#)[ISO / DIN](#)[Next →](#)[O-Ring Seal — ISO / DIN \(Series 159\)](#)[ISO / DIN](#)