

What Are AS568 O-Rings (Inch Series) Used For?

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Seals · AS 568 · Application guide

Typical applications, the industries that specify as568 o-rings (inch series), and how to choose the right size, material and finish for the joint.

AS568 O-Rings (Inch Series) are used for containing fluid or excluding contamination at a static or dynamic interface. They are manufactured to AS 568, and selection is driven by the size designation, the fit and tolerance the assembly requires, and the service environment.

Primary duty

Containing fluid or excluding contamination at a static or dynamic interface

Governing standard

AS 568

Size designation range

568001 to 568140

Category

Seals

Application notes are general engineering guidance. Verify the property class and any approval requirement against your own design calculation.



Application guide for AS568 O-Rings (Inch Series) to AS 568. The core duty of the type is containing fluid or excluding contamination at a static or dynamic interface. The typical industries, the how-to-specify checklist, assembly practice and the exclusion cases are set out below. Stocked across roughly 568001 to 568140, they cover heavy and structural work.

Typical Applications for AS568 O-Rings (Inch Series)

The most common settings where these are specified:

- **General machine building:** fastening covers, brackets, motors and sub-assemblies on production equipment.
- **Maintenance & repair (MRO):** a stocked size for servicing existing plant where the original fastener spec must be matched.
- **Fabrication & metalwork:** bench and on-site assembly of steel frames, enclosures and weldments.

How to Specify AS568 O-Rings (Inch Series) for Your Application

- **Size:** Select on size designation, and confirm it against the mating feature in the assembly. This product spans 568001-568140; check the full table below for the exact dimensions of each size.
- **Material:** Choose the material and finish for the service environment — plated steel for general use, stainless for corrosion resistance.

- **Environment:** For damp, coastal or chemical exposure prefer A4/316 stainless or a suitable coating; indoors, plated steel or A2 is usually sufficient.
- **Standard:** This product is supplied to AS 568. Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Where AS568 O-Rings (Inch Series) Are Not the Right Choice

Match the fastener to the load, environment and whether the joint must be reopened; the wrong class or style is the usual cause of joint failure.

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 Quote

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

Dimensions & Specifications (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
AS568-001	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

Dash number	Inner diameter d1 (in)	Inner diameter d1 (mm)	Cross section CS (in)	Cross section CS (mm)	Groove width (mm)	Reference standard
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
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

Dash number	Inner diameter d1 (in)	Inner diameter d1 (mm)	Cross section CS (in)	Cross section CS (mm)	Groove width (mm)	Reference standard
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
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

Dash number	Inner diameter d1 (in)	Inner diameter d1 (mm)	Cross section CS (in)	Cross section CS (mm)	Groove width (mm)	Reference standard
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
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

Video: What Are AS568 O-Rings (Inch Series) Used For? in use



► Watch video: <https://www.youtube.com/watch?v=98Kb26RVCzg>

[O-Ring Sizing Cone - The O-Ring Store](#)

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.

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.

Frequently Asked Questions

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

Containing fluid or excluding contamination at a static or dynamic interface. They are supplied to AS 568.

Which industries use AS568 O-Rings (Inch Series)?

They are commonly specified in general machine building, maintenance & repair (mro) and fabrication & metalwork, among other sectors.

How do I choose the right size of AS568 O-Rings (Inch Series)?

Select on size designation and on the fit the assembly requires. This product is available from 568001 to 568140; the full dimension table on this page lists each size.

Are AS568 O-Rings (Inch Series) made to a recognized standard?

Yes — they are manufactured to AS 568, so dimensions are interchangeable between suppliers when you quote the standard on your order.

Can I get a quote for AS568 O-Rings (Inch Series) in the size and material I need?

Yes. Use the technical drawing and quote form on this page to set the size and options, then send the exact configuration to our team for pricing and lead time.

Related Pages

Product page: [AS568 O-Rings \(Inch Series\) — specifications & sizes](#)

AS568 O-Rings (Inch Series) Specification Guides

- [A4 stainless AS568 O-Rings \(Inch Series\)](#)

Related Fastener Applications

- [O-Ring Seal — ISO / DIN \(Series 159\) applications](#)
- [O-Ring Seal — ISO / DIN \(Series 160\) applications](#)