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QUALITY | VALUE | SERVICE

# O-Rings

O-Rings





# You need it now! We've got it.

Tired of hearing, "We can get it for you?" J Royal's already got it in stock. That's crucial in today's marketplace where you have to seal the deal ASAP. You order, we ship. Same day.

We stock everything from the conventional to the unconventional. The AS568, "Aerospace Size Standard for O-Rings" is generally considered the U.S. size standard. No matter what you're looking for, you'll find it on the chart below. The one thing they all have in common is they're the industry's best.

Set your own standards – If the O-Ring you need simply doesn't exist, we'll create it for you. And if you need help in determining which size and material is perfect for your unique needs, our expert consultants are just a phone call away.

## ALL COMPOUNDS BELOW ARE IN STOCK AND AVAILABLE FOR IMMEDIATE SHIPMENT.


### O-RINGS

<b>NITRILE (NBR)</b>	<b>OPERATING TEMPERATURE*</b> -30° to +250° F	<b>MATERIALS</b> 70 durometer 90 durometer NSF/FDA 70 durometer
<b>VITON™ (FKM)</b>	<b>OPERATING TEMPERATURE*</b> -15° to +400° F	<b>MATERIALS</b> Black 75 durometer Black 90 durometer Brown 75 durometer
<b>ETHYLENE PROPYLENE (EPDM)</b>	<b>OPERATING TEMPERATURE*</b> -60° to +250° F	<b>MATERIALS</b> 70 durometer 90 durometer NSF/FDA 70 durometer
<b>SILICONE (VMQ)</b>	<b>OPERATING TEMPERATURE*</b> -65° to +400° F	<b>MATERIALS</b> 70 durometer
<b>NEOPRENE (CR)</b>	<b>OPERATING TEMPERATURE*</b> -40° to +225° F	<b>MATERIALS</b> 70 durometer
<b>HYDROGENATED NITRILE (HNBR)</b>	<b>OPERATING TEMPERATURE*</b> -25° to +300° F	<b>MATERIALS</b> Green 70 durometer
<b>TEFLON® ENCAPSULATED SILICONE &amp; VITON™</b>	<b>OPERATING TEMPERATURE*</b> -75° to +400° F	<b>MATERIALS</b> Silicone core Viton™ Core
<b>PTFE</b>	<b>OPERATING TEMPERATURE*</b> -300° to +500° F	<b>MATERIALS</b> PTFE (55 shore D)

#### ALSO AVAILABLE UPON REQUEST:

Viton™: All types, Fluorosilicone, Perfluoroelastomer, Polyurethane, Butyl, UL compounds, NSF compounds, Carboxylated Nitrile, PTFE coated, internally lubricated, colored compounds, metric and custom sizes.

\*Operating ranges are approximate and apply to medium hardness (~70 Shore A) compounds. Harder or softer compounds will have different temperature ranges.

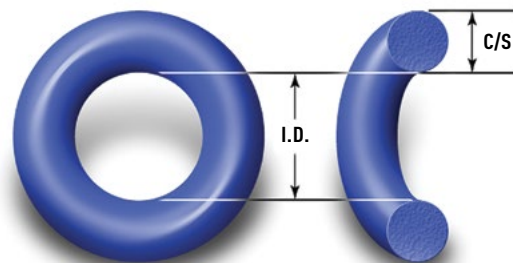
 Viton™ is a trademark of The Chemours Company FC, LLC, used under license by RT Dygert.

### QUATTRO SEALS™

<b>NITRILE (NBR)</b>	<b>OPERATING TEMPERATURE*</b> -30° to +250° F	<b>MATERIALS</b> 70 durometer
<b>VITON™</b>	<b>OPERATING TEMPERATURE*</b> -15° to +400° F	<b>MATERIALS</b> 75 durometer

### BACKUP RINGS

<b>HYTREL®</b>	<b>OPERATING TEMPERATURE*</b> -40° to +250° F	<b>MATERIALS</b> Dynamic (55 shore D) Static (55 shore D)
<b>NITRILE (NBR)</b>	<b>OPERATING TEMPERATURE*</b> -30° to +250° F	<b>MATERIALS</b> Contoured 90 durometer
<b>PTFE</b>	<b>OPERATING TEMPERATURE*</b> -300° to +500° F	<b>MATERIALS</b> PTFE Split backup rings







We're your source for expertise in virtually every area, including materials, design, prototyping, testing and more. We'll work with you to set up a custom just-in-time delivery program. Our Electronic Data Interchange (EDI) reduces even more costs and time. We'll barcode all incoming and outgoing shipments for easy verification and to streamline your receiving process.

When it comes to serving you, we're as reliable as our O-Rings. For more information, quick quotations, expert consultation and responsive customer service call us at 800 626 8807.

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## CROSS SECTION .275" ± .006"

AS568	— Dimensions in Inches —			— Nominal Size —		
	I.D.	±	C/S	I.D.	O.D.	C/S
-425	4.475	.033	.275	4-1/2	5	1/4
-426	4.600	.033	.275	4-5/8	5-1/8	1/4
-427	4.725	.033	.275	4-3/4	5-1/4	1/4
-428	4.850	.033	.275	4-7/8	5-3/8	1/4
-429	4.975	.037	.275	5	5-1/2	1/4
-430	5.100	.037	.275	5-1/8	5-5/8	1/4
-431	5.225	.037	.275	5-1/4	5-3/4	1/4
-432	5.350	.037	.275	5-3/8	5-7/8	1/4
-433	5.475	.037	.275	5-1/2	6	1/4
-434	5.600	.037	.275	5-5/8	6-1/8	1/4
-435	5.725	.037	.275	5-3/4	6-1/4	1/4
-436	5.850	.037	.275	5-7/8	6-3/8	1/4
-437	5.975	.037	.275	6	6-1/2	1/4
-438	6.225	.040	.275	6-1/4	6-3/4	1/4
-439	6.475	.040	.275	6-1/2	7	1/4
-440	6.725	.040	.275	6-3/4	7-1/4	1/4
-441	6.975	.040	.275	7	7-1/2	1/4

AS568	— Dimensions in Inches —			— Nominal Size —		
	I.D.	±	C/S	I.D.	O.D.	C/S
-442	7.225	.045	.275	7-1/4	7-3/4	1/4
-443	7.475	.045	.275	7-1/2	8	1/4
-444	7.725	.045	.275	7-3/4	8-1/4	1/4
-445	7.975	.045	.275	8	8-1/2	1/4
-446	8.475	.055	.275	8-1/2	9	1/4
-447	8.975	.055	.275	9	9-1/2	1/4
-448	9.475	.055	.275	9-1/2	10	1/4
-449	9.975	.055	.275	10	10-1/2	1/4
-450	10.475	.060	.275	10-1/2	11	1/4
-451	10.975	.060	.275	11	11-1/2	1/4
-452	11.475	.060	.275	11-1/2	12	1/4
-453	11.975	.060	.275	12	12-1/2	1/4
-454	12.475	.060	.275	12-1/2	13	1/4
-455	12.975	.060	.275	13	13-1/2	1/4
-456	13.475	.070	.275	13-1/2	14	1/4
-457	13.975	.070	.275	14	14-1/2	1/4
-458	14.475	.070	.275	14-1/2	15	1/4

AS568	— Dimensions in Inches —			— Nominal Size —		
	I.D.	±	C/S	I.D.	O.D.	C/S
-459	14.975	.070	.275	15	15-1/2	1/4
-460	15.475	.070	.275	15-1/2	16	1/4
-461	15.955	.075	.275	16	16-1/2	1/4
-462	16.455	.075	.275	16-1/2	17	1/4
-463	16.955	.080	.275	17	17-1/2	1/4
-464	17.455	.085	.275	17-1/2	18	1/4
-465	17.955	.085	.275	18	18-1/2	1/4
-466	18.455	.085	.275	18-1/2	19	1/4
-467	18.955	.090	.275	19	19-1/2	1/4
-468	19.455	.090	.275	19-1/2	20	1/4
-469	19.955	.095	.275	20	20-1/2	1/4
-470	20.955	.095	.275	21	21-1/2	1/4
-471	21.955	.100	.275	22	22-1/2	1/4
-472	22.940	.105	.275	23	23-1/2	1/4
-473	23.940	.110	.275	24	24-1/2	1/4
-474	24.940	.115	.275	25	25-1/2	1/4
-475	25.940	.120	.275	26	26-1/2	1/4

## O-RINGS FOR TUBE FITTING BOSSES

AS568	— Dimensions in Inches —				— Dimensions in Millimeters —				O-Ring Volume (cubic inches)	— Tube Size —	
	I.D.	±	C/S	±	I.D.	±	C/S	±		OD	Dash No.**
-901	.185	.005	.056	.003	4.70	0.13	1.42	0.08	0.0019	3/32	
-902	.239	.005	.064	.003	6.07	0.13	1.63	0.08	0.0031	1/8	2
-903	.301	.005	.064	.003	7.65	0.13	1.63	0.08	0.0037	3/16	3
-904	.351	.005	.072	.003	8.92	0.13	1.83	0.08	0.0054	1/4	4
-905	.414	.005	.072	.003	10.52	0.13	1.83	0.08	0.0062	5/16	5
-906	.468	.005	.078	.003	11.89	0.13	1.98	0.08	0.0082	3/8	6
-907	.530	.007	.082	.003	13.46	0.18	2.08	0.08	0.0102	7/16	7
-908	.644	.009	.087	.003	16.36	0.23	2.21	0.08	0.0137	1/2	8
-909	.706	.009	.097	.003	17.93	0.23	2.46	0.08	0.0186	9/16	9
-910	.755	.009	.097	.003	19.18	0.23	2.46	0.08	0.0198	5/8	10
-911	.863	.009	.116	.004	21.92	0.23	2.95	0.10	0.0326	11/16	11
-912	.924	.009	.116	.004	23.47	0.23	2.95	0.10	0.0345	3/4	12
-913	.986	.010	.116	.004	25.04	0.25	2.95	0.10	0.0366	13/16	13
-914	1.047	.010	.116	.004	26.59	0.25	2.95	0.10	0.0386	7/8	14
-916	1.171	.010	.116	.004	29.74	0.25	2.95	0.10	0.0427	1	16
-918	1.355	.012	.116	.004	34.42	0.30	2.95	0.10	0.0489	1-1/8	18
-920	1.475	.014	.118	.004	37.47	0.36	3.00	0.10	0.0547	1-1/4	20
-924	1.720	.014	.118	.004	43.69	0.36	3.00	0.10	0.0631	1-1/2	24
-928	2.090	.018	.118	.004	53.09	0.46	3.00	0.10	0.0759	1-3/4	28
-932	2.337	.018	.118	.004	59.36	0.46	3.00	0.10	0.0843	2	32

\*\*The 900 series boss seals are designed to seal straight thread tube fittings when they are fastened into a boss. In this type of fitting the O-Ring is not located in a conventional rectangular groove. Rather, the seal is obtained when the gland components exert a diagonal squeeze through the O-Ring cross section

O-Rings

# Why Industry Leaders Rely on J Royal

## GLOBAL REACH – LOCAL RELATIONSHIPS

For over 60 years, J Royal has provided quality sealing solutions to a diverse group of markets. Our knowledgeable staff is highly regarded in the industry for its ability to consistently provide optimal design recommendations and its commitment to building long-standing, prosperous relationships. What sets J Royal apart is its broad product base, unbeatable product knowledge, extensive logistics and distribution capabilities, and progressive engineering skills, all supported by global resources.

## THE J ROYAL ADVANTAGE

Our products fit nearly every category:

- O-Rings
- Wipers
- Precision Metal Products
- Machined Plastic Parts
- Compounds
- Custom Molded Parts
- Piston Seals
- Rod Seals
- Standard & Custom Seals

## PARTNER OF CHOICE

J Royal has the team to not just meet your needs but surpass your expectations. From local sales support and design assistance to quotation and quality assurance, we are ready to support you as an integral member of your supply chain.



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**LIMITED LIABILITY** Seller's liability for its goods is limited to their terms set forth in Seller's express warranty set for above, in no event shall Seller's liability exceed the total purchase order price. Seller is not assuming any liability for any indirect, collateral, special, incidental or consequential losses or damages suffered by Buyer, or by any end-user or other third party, including but not limited to, lost profits, loss of business reputation and/or lost business opportunity, for any possible cause of action or claim arising out of or related to the goods sold to Buyer, even if Seller has been advised of the possibility of such loss or damage.