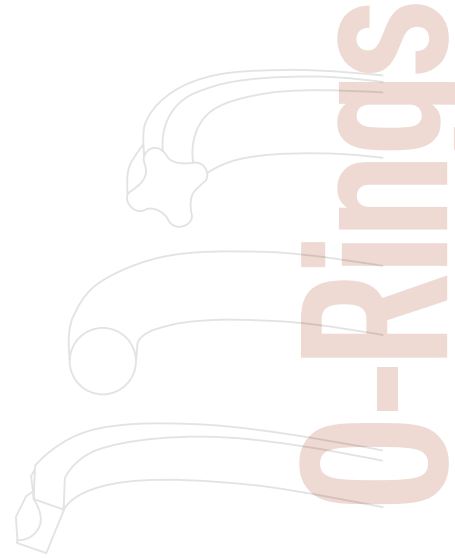


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# O-Rings



**HIGH PERFORMANCE SEALS**  
An RT Dygert Company



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Tired of hearing, "We can get it for you?" High Performance Seals already has 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.

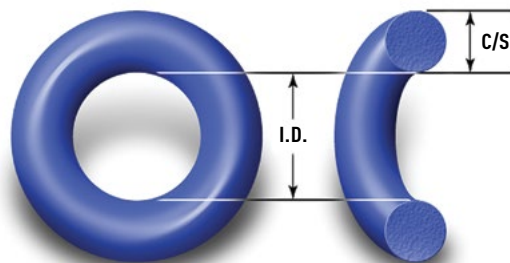
\*Operating ranges are approximate and apply to medium hardness (~70 Shore A) compounds. Harder or softer compounds will have different temperature ranges.

### 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



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For over five decades, High Performance Seals has been a world leader in servicing and supplying our customers with only the best quality O-Rings, Custom Molded Rubber Products, Seals and Machined Plastics at very competitive prices. We also offer time and money saving value added services like JIT/Kanban programs, pre-production and kitting, special marking and packaging options and more.

## CROSS SECTION .070" ± .003"

AS568	—Dimensions in Inches—			—Nominal Size—		
	I.D.	±	C/S	I.D.	O.D.	C/S
-001	.029	.004	.040	1/32	3/32	1/32
-002	.042	.004	.050	3/64	9/64	3/64
-003	.056	.004	.060	1/16	3/16	1/16
-004	.070	.005	.070	5/16	13/64	1/16
-005	.101	.005	.070	3/32	7/32	1/16
-006	.114	.005	.070	1/8	1/4	1/16
-007	.145	.005	.070	5/32	9/32	1/16
-008	.176	.005	.070	3/16	5/16	1/16
-009	.208	.005	.070	7/32	11/32	1/16
-010	.239	.005	.070	1/4	3/8	1/16
-011	.301	.005	.070	5/16	7/16	1/16
-012	.364	.005	.070	3/8	1/2	1/16
-013	.426	.005	.070	7/16	9/16	1/16
-014	.489	.005	.070	1/2	5/8	1/16
-015	.551	.007	.070	9/16	11/16	1/16
-016	.614	.009	.070	5/8	3/4	1/16
-017	.676	.009	.070	11/16	13/16	1/16

AS568	—Dimensions in Inches—			—Nominal Size—		
	I.D.	±	C/S	I.D.	O.D.	C/S
-018	.739	.009	.070	3/4	7/8	1/16
-019	.801	.009	.070	13/16	15/16	1/16
-020	.864	.009	.070	7/8	1	1/16
-021	.926	.009	.070	15/16	1-1/16	1/16
-022	.989	.010	.070	1	1-1/8	1/16
-023	1.051	.010	.070	1-1/16	1-3/16	1/16
-024	1.114	.010	.070	1-1/8	1-1/4	1/16
-025	1.176	.011	.070	1-3/16	1-5/16	1/16
-026	1.239	.011	.070	1-1/4	1-3/8	1/16
-027	1.301	.011	.070	1-5/16	1-7/16	1/16
-028	1.364	.013	.070	1-3/8	1-1/2	1/16
-029	1.489	.013	.070	1-1/2	1-5/8	1/16
-030	1.614	.013	.070	1-5/8	1-3/4	1/16
-031	1.739	.015	.070	1-3/4	1-7/8	1/16
-032	1.864	.015	.070	1-7/8	2	1/16
-033	1.989	.018	.070	2	2-1/8	1/16
-034	2.114	.018	.070	2-1/8	2-1/4	1/16

AS568	—Dimensions in Inches—			—Nominal Size—		
	I.D.	±	C/S	I.D.	O.D.	C/S
-035	2.239	.018	.070	2-1/4	2-3/8	1/16
-036	2.364	.018	.070	2-3/8	2-1/2	1/16
-037	2.489	.018	.070	2-1/2	2-5/8	1/16
-038	2.614	.020	.070	2-5/8	2-3/4	1/16
-039	2.739	.020	.070	2-3/4	2-7/8	1/16
-040	2.864	.020	.070	2-7/8	3	1/16
-041	2.989	.024	.070	3	3-1/8	1/16
-042	3.239	.024	.070	3-1/4	3-3/8	1/16
-043	3.489	.024	.070	3-1/2	3-5/8	1/16
-044	3.739	.027	.070	3-3/4	3-7/8	1/16
-045	3.989	.027	.070	4	4-1/8	1/16
-046	4.239	.030	.070	4-1/4	4-3/8	1/16
-047	4.489	.030	.070	4-1/2	4-5/8	1/16
-048	4.739	.030	.070	4-3/4	4-7/8	1/16
-049	4.989	.037	.070	5	5-1/8	1/16
-050	5.239	.037	.070	5-1/4	5-3/8	1/16

## CROSS SECTION .103" ± .003"

AS568	—Dimensions in Inches—			—Nominal Size—		
	I.D.	±	C/S	I.D.	O.D.	C/S
-102	.049	.005	.103	1/16	1/4	3/32
-103	.081	.005	.103	3/32	9/32	3/32
-104	.112	.005	.103	1/8	5/16	3/32
-105	.143	.005	.103	5/32	11/32	3/32
-106	.174	.005	.103	3/16	3/8	3/32
-107	.206	.005	.103	7/32	13/32	3/32
-108	.237	.005	.103	1/4	7/16	3/32
-109	.299	.005	.103	5/16	1/2	3/32
-110	.362	.005	.103	3/8	9/16	3/32
-111	.424	.005	.103	7/16	5/8	3/32
-112	.487	.005	.103	1/2	11/16	3/32
-113	.549	.007	.103	9/16	3/4	3/32
-114	.612	.009	.103	5/8	13/16	3/32
-115	.674	.009	.103	11/16	7/8	3/32
-116	.737	.009	.103	3/4	15/16	3/32
-117	.799	.010	.103	13/16	1	3/32
-118	.862	.010	.103	7/8	1-1/16	3/32
-119	.924	.010	.103	15/16	1-1/8	3/32
-120	.987	.010	.103	1	1-3/16	3/32
-121	1.049	.010	.103	1-1/16	1-1/4	3/32
-122	1.112	.010	.103	1-1/8	1-5/16	3/32
-123	1.174	.012	.103	1-3/16	1-3/8	3/32
-124	1.237	.012	.103	1-1/4	1-7/16	3/32
-125	1.299	.012	.103	1-5/16	1-1/2	3/32
-126	1.362	.012	.103	1-3/8	1-9/16	3/32
-127	1.424	.012	.103	1-7/16	1-5/8	3/32

AS568	—Dimensions in Inches—			—Nominal Size—		
	I.D.	±	C/S	I.D.	O.D.	C/S
-128	1.487	.012	.103	1-1/2	1-11/16	3/32
-129	1.549	.015	.103	1-9/16	1-3/4	3/32
-130	1.612	.015	.103	1-5/8	1-13/16	3/32
-131	1.674	.015	.103	1-11/16	1-7/8	3/32
-132	1.737	.015	.103	1-3/4	1-15/16	3/32
-133	1.799	.015	.103	1-13/16	2	3/32
-134	1.862	.015	.103	1-7/8	2-1/16	3/32
-135	1.925	.017	.103	1-15/16	2-1/8	3/32
-136	1.987	.017	.103	2	2-3/16	3/32
-137	2.050	.017	.103	2-1/16	2-1/4	3/32
-138	2.112	.017	.103	2-1/8	2-5/16	3/32
-139	2.175	.017	.103	2-3/16	2-3/8	3/32
-140	2.237	.017	.103	2-1/4	2-7/16	3/32
-141	2.300	.020	.103	2-5/16	2-1/2	3/32
-142	2.362	.020	.103	2-3/8	2-9/16	3/32
-143	2.425	.020	.103	2-7/16	2-5/8	3/32
-144	2.487	.020	.103	2-1/2	2-11/16	3/32
-145	2.550	.020	.103	2-9/16	2-3/4	3/32
-146	2.612	.020	.103	2-5/8	2-13/16	3/32
-147	2.675	.022	.103	2-11/16	2-7/8	3/32
-148	2.737	.022	.103	2-3/4	2-15/16	3/32
-149	2.800	.022	.103	2-13/16	3	3/32
-150	2.862	.022	.103	2-7/8	3-1/16	3/32
-151	2.987	.024	.103	3	3-3/16	3/32
-152	3.237	.024	.103	3-1/4	3-7/16	3/32
-153	3.487	.024	.103	3-1/2	3-11/16	3/32

AS568	—Dimensions in Inches—			—Nominal Size—		
	I.D.	±	C/S	I.D.	O.D.	C/S
-154	3.737	.028	.103	3-3/4	3-15/16	3/32
-155	3.987	.028	.103	4	4-3/16	3/32
-156	4.237	.030	.103	4-1/4	4-7/16	3/32
-157	4.487	.030	.103	4-1/2	4-11/16	3/32
-158	4.737	.030	.103	4-3/4	4-15/16	3/32
-159	4.987	.035	.103	5	5-3/16	3/32
-160	5.237	.035	.103	5-1/4	5-7/16	3/32
-161	5.487	.035	.103	5-1/2	5-11/16	3/32
-162	5.737	.035	.103	5-3/4	5-15/16	3/32
-163	5.987	.035	.103	6	6-3/16	3/32
-164	6.237	.040	.103	6-1/4	6-7/16	3/32
-165	6.487	.040	.103	6-1/2	6-11/16	3/32
-166	6.737	.040	.103	6-3/4	6-15/16	3/32
-167	6.987	.040	.103	7	7-3/16	3/32
-168	7.237	.045	.103	7-1/4	7-7/16	3/32
-169	7.487	.045	.103	7-1/2	7-11/16	3/32
-170	7.737	.045	.103	7-3/4	7-15/16	3/32
-171	7.987	.045	.103	8	8-3/16	3/32
-172	8.237	.050	.103	8-1/4	8-7/16	3/32
-173	8.487	.050	.103	8-1/2	8-11/16	3/32
-174	8.737	.050	.103	8-3/4	8-15/16	3/32
-175	8.987	.050	.103	9	9-3/16	3/32
-176	9.237	.055	.103	9-1/4	9-7/16	3/32
-177	9.487	.055	.103	9-1/2	9-11/16	3/32
-178	9.737	.055	.103	9-3/4	9-15/16	3/32



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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

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