R.F. CARLSON CO.

YOUR FULL LINE SEAL SUPPLIER

O-Ring Handbook

www.rfcarlson.com sales@rfcarlson.com

Welcome to the RF Carlson Company

Thank you for considering the RF Carlson Company for your sealing needs. Selecting the proper o-ring material and size can be a daunting experience with many options available. Which size do you need? Is the material correct? Will pressure have any bearing?

We at the RF Carlson Company would like to introduce our o-ring catalog featuring size and material options as well as other factors (such as temperature and pressure range considerations). The information enclosed will help you as you take your steps through the seal process.

In addition to this catalogue, we have other options available:

For example, visit our material selector guide at www.rfcarlson.com:

R. F. Carlson Co. Fluid Compatibility Table

Choose a chemical	*Elastomer*	*Compatibility*
Ortho-Dichlorobenzene Oxalic Acid Oxygen, Cold Oxygen, 200-400øF Ozone Paint Thinner, Duco	Nitrile	Unsatisfactory
	EPDM	Recommended
	Fluorocarbon	Recommended
	Neoprene	Fair
	Silicone	Recommended
	Perfluoroelastomer	Recommended

Or contact one our experienced customer sales representatives at the phone number listed in this handbook. As an organization on our way to being employee owned, we are confident that you will be very satisfied with the services that we offer.

Also, as an independent seal distributor we do not promote any particular (and sometimes more costly) brand, but simply show you which products are best for your applications.

Again, thank you for your consideration of our company.

~ Over 50 years of sealing experience ~

~ Service oriented and responsive ~

R.F. CARLSON CO.

~ Compact and unified product line ~

~ Customized supply chain management ~

O-RING HANDBOOK

TABLE OF CONTENTS

This handbook provides general product/guideline options and is intended for users already having sealing expertise. It is important that all aspects of any sealing application be analyzed and reviewed properly prior to the making of final selections.

Due to the variety of operating conditions and applications for the products listed herein, users of this handbook are solely responsible for making the final selection of products/systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs are subject to change by RF Carlson Co.

O-RING STANDARD SIZE (AS568)

AS 568A UNIVERSAL DASH NUMBERS	NOMINAL SIZE			STANDARD O-RING SIZE				METRIC O-RING SIZE			
	INCHES			INCHES				MILLIMETERS			
	I.D.	O.D.	W.	I.D.	±	W.	±	I.D.	±	W.	±
-001	1/32	3/32	1/32	.029	.004	.040	.003	0.74	0.10	1.02	0.08
-002	3/64	9/64	3/64	.042	.004	.050	.003	1.07	0.10	1.27	0.08
-003	1/16	3/16	1/16	.056	.004	.060	.003	1.42	0.10	1.52	0.08
-004	5/64	13/64	1/16	.070	.005	.070	.003	1.78	0.13	1.78	0.08
-005	3/32	7/32	1/16	.101	.005	.070	.003	2.57	0.13	1.78	0.08
-006	1/8	1/4	1/16	.114	.005	.070	.003	2.90	0.13	1.78	0.08
-007	5/32	9/32	1/16	.145	.005	.070	.003	3.68	0.13	1.78	0.08
-008	3/16	5/16	1/16	.176	.005	.070	.003	4.47	0.13	1.78	0.08
-009	7/32	11/32	1/16	.208	.005	.070	.003	5.28	0.13	1.78	0.08
-010	1/4	3/8	1/16	.239	.005	.070	.003	6.07	0.13	1.78	0.08
-011	5/16	7/16	1/16	.301	.005	.070	.003	7.65	0.13	1.78	0.08
-012	3/8	1/2	1/16	.364	.005	.070	.003	9.25	0.13	1.78	0.08
-013	7/16	9/16	1/16	.426	.005	.070	.003	10.82	0.13	1.78	0.08
-014	1/2	5/8	1/16	.489	.005	.070	.003	12.42	0.13	1.78	0.08
-015	9/16	11/16	1/16	.551	.007	.070	.003	14.00	0.18	1.78	0.08
-016	5/8	3/4	1/16	.614	.009	.070	.003	15.60	0.23	1.78	0.08
-017	11/16	13/16	1/16	.676	.009	.070	.003	17.17	0.23	1.78	0.08
-018	3/4	7/8	1/16	.739	.009	.070	.003	18.77	0.23	1.78	0.08
-019	13/16	15/16	1/16	.801	.009	.070	.003	20.35	0.23	1.78	0.08
-020	7/8	1	1/16	.864	.009	.070	.003	21.95	0.23	1.78	0.08
-021	15/16	1 1/16	1/16	.926	.009	.070	.003	23.52	0.23	1.78	0.08
-022	1	1/8	1/16	.989	.010	.070	.003	25.12	0.25	1.78	0.08
-023	1 1/16	1 3/16	1/16	1.051	.010	.070	.003	26.70	0.25	1.78	0.08
-024	1 1/8	1 1/4	1/16	1.114	.010	.070	.003	28.30	0.25	1.78	0.08
-025	1 3/16	1 5/16	1/16	1.176	.011	.070	.003	29.87	0.28	1.78	0.08
-026	1 1/4	1 3/8	1/16	1.239	.011	.070	.003	31.47	0.28	1.78	0.08
-027	1 5/16	1 7/16	1/16	1.301	.011	.070	.003	33.05	0.28	1.78	0.08
-028	1 3/8	1 1/2	1/16	1.364	.013	.070	.003	34.65	0.33	1.78	0.08
-029	1 1/2	1 5/8	1/16	1.489	.013	.070	.003	37.82	0.33	1.78	0.08
-030	1 5/8	1 3/4	1/16	1.614	.013	.070	.003	41.00	0.33	1.78	0.08
-031	1 3/4	1 7/8	1/16	1.739	.015	.070	.003	44.17	0.38	1.78	0.08
-032	1 7/8	2	1/16	1.864	.015	.070	.003	47.35	0.38	1.78	0.08
-033	2	2 1/8	1/16	1.989	.018	.070	.003	50.52	0.46	1.78	0.08
-034	2 1/8	2 1/4	1/16	2.114	.018	.070	.003	53.70	0.46	1.78	0.08
-035	2 1/4	2 3/8	1/16	2.239	.018	.070	.003	56.87	0.46	1.78	0.08
-036	2 3/8	2 1/2	1/16	2.364	.018	.070	.003	60.05	0.46	1.78	0.08
-037	2 1/2	2 5/8	1/16	2.489	.018	.070	.003	63.22	0.46	1.78	0.08
-038	2 5/8	2 3/4	1/16	2.614	.020	.070	.003	66.40	0.51	1.78	0.08
-039	2 3/4	2 7/8	1/16	2.739	.020	.070	.003	69.57	0.51	1.78	0.08
-040	2 7/8	3	1/16	2.864	.020	.070	.003	72.75	0.51	1.78	0.08
-041	3	3 1/8	1/16	2.989	.024	.070	.003	75.92	0.61	1.78	0.08