



How to Order Apple O-Rings

Apple O-rings and MicrOring™ seals are specified by three characteristics: size, hardness, and material. Prior to seal specification, please check for availability. We add to our tooling list all the time.

SIZE: Standards are specified by their AS-568* dash number. Non-standards are referenced by I.D. and width (cross section). **Although we only include the AS-568* standard sizes in this guide, Apple has a vast inventory of non-standard and metric sizes.**

Visit our website at www.applerubber.com for more information. And, if you still don't find the size you are looking for, please keep in mind that Apple provides complete customized work to meet your special needs.

HARDNESS: This is specified by a two-digit Shore A durometer number, ranging from 25(soft) to 90(hard), depending on the type of elastomer. Our standard durometer is 70 Shore A, except for Viton which is 75 Shore A. Standard durometer tolerance is ± 5 .

MATERIAL: Our standard range of materials is designated by a two-letter abbreviation for each elastomer. See Section 6 for designations and further discussions of materials.

Provide us with the following when ordering:

1. Quantity of O-rings.
2. Size by AS-568* dash number, or I.D. and C.S., if ordering a non-standard.
3. Material by hardness and two-digit material abbreviation.

Examples:

Standard O-Ring. If you were to order 10,000 pieces of an AS-568*-110 in 70 durometer Silicone your order would read:

10,000 -110 (dash number) 70SL

Non-Standard. If you were to order 25,000 pieces with an internal diameter of .144" and a cross section of .025" 70 durometer Buna-N your order would read:

25,000 .144 I.D. x .025 C.S. 70BN

*Note: The current revision of the Standard is "C" but it changes periodically.

Shrinkage Size Adjustment

It is important to note that ALL O-ring materials shrink to some extent during molding. Over time, certain O-ring materials have been identified as possessing similar shrink rates, and are therefore used as O-ring size standards. The nominal O-ring sizes listed in this catalog are based upon a 70 durometer Nitrile. For O-ring materials other than 70 durometer Nitrile, please contact Apple Rubber, as extensive tooling is available for high shrink compounds.

Standard Tolerances for O-Ring Cross Sections

Cross Section	Tolerance (\pm)
UP TO .104	.003
.139	.004
.210	.005
.275	.006
.375	.008

How to Order Custom Parts

For assistance with seal design, prototypes, and production orders on custom parts, please contact one of our account managers.

EAR - Engineering Assistance Request

RFQ - Request for quote

To Place Orders or Quotations

PHONE: 1.800-828.7745

FAX: 716.684.8302

E-MAIL: info@applerubber.com

URL: www.applerubber.com

NOTE: For a complete list of O-ring seal sizes, please use the **O-Ring Size Search** Tool Online at:

<http://www.applerubber.com>

Tolerances for CUSTOM Molded Parts

The following tables illustrate different levels of tolerance control for all elastomeric parts. However, these standard tables do not take into account specific design concerns such as allowable flash. For assistance, please contact Apple Rubber for specific recommendations.

RMA Designation “A1” High Precision

Drawing designation “A1” is the tightest tolerance classification and indicates a high precision product. Such products require expensive molds, fewer cavities per mold, costly in-process controls and inspection procedures. It is desirable that the exact method of measurement be agreed upon between Apple Rubber and customer, as errors in measurement may be large in relation to the tolerance.

“A1” High Precision

Size (Inches)	Fixed	Closure
Above Incl.		
0-.40	±.004	±.005
.40-.63	±.005	±.006
.63-1.00	±.006	±.008
1.00-1.60	±.008	±.010
1.60-2.50	±.010	±.013
2.50-4.00	±.013	±.016
4.00-6.30	±.016	±.020

RMA Designation “A2” Precision

Drawing Designation “A2” tolerances indicate a precision product and are typically applied to custom molder parts. Molds must be precision machined and kept in good repair. While measurement methods may be simpler than with Drawing Designation “A1”, careful inspection will usually be required.

“A2” Precision

Size (Inches)	Fixed	Closure
Above Incl.		
0-.40	±.006	±.008
.40-.63	±.008	±.010
.63-1.00	±.010	±.013
1.00-1.60	±.013	±.016
1.60-2.50	±.016	±.020
2.50-4.00	±.020	±.025
4.00-6.30	±.025	±.032
6.30 & over multiply by	± 0.4%	

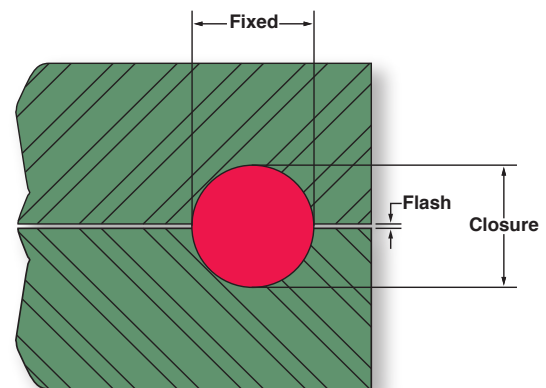


Illustration 9.1

Fixed - Dimensions not affected by flash thickness variation.

Closure - Dimensions affected by flash thickness variation.

Standard AS-568* Size O-Rings

Many more O-ring sizes available, visit us online for our full listing.

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AS-568* NO.	NOMINAL REFERENCE			ACTUAL DIMENSIONS	
	I.D.	O.D.	Width	I.D. Tol.	W. Tol.
-001	1/32	3/32	1/32	.029 ±.004	.040 ±.003
-001 1/2	1/16	1/8	1/32	.070 ±.004	.040 ±.003
-002	3/64	9/64	3/64	.042 ±.004	.050 ±.003
-003	1/16	3/16	1/16	.056 ±.004	.060 ±.003
-004	5/64	13/64	1/16	.070 ±.005	.070 ±.003
-005	3/32	7/32	1/16	.101 ±.005	.070 ±.003
-006	1/8	1/4	1/16	.114 ±.005	.070 ±.003
-007	5/32	9/32	1/16	.145 ±.005	.070 ±.003
-008	3/16	5/16	1/16	.176 ±.005	.070 ±.003
-009	7/32	11/32	1/16	.208 ±.005	.070 ±.003
-010	1/4	3/8	1/16	.239 ±.005	.070 ±.003
-011	5/16	7/16	1/16	.301 ±.005	.070 ±.003
-012	3/8	1/2	1/16	.364 ±.005	.070 ±.003
-013	7/16	9/16	1/16	.426 ±.005	.070 ±.003
-014	1/2	5/8	1/16	.489 ±.005	.070 ±.003
-015	9/16	11/16	1/16	.551 ±.007	.070 ±.003
-016	5/8	3/4	1/16	.614 ±.009	.070 ±.003
-017	11/16	13/16	1/16	.676 ±.009	.070 ±.003
-018	3/4	7/8	1/16	.739 ±.009	.070 ±.003
-019	13/16	15/16	1/16	.801 ±.009	.070 ±.003
-020	7/8	1	1/16	.864 ±.009	.070 ±.003
-021	15/16	1 1/16	1/16	.926 ±.009	.070 ±.003
-022	1	1 1/8	1/16	.989 ±.010	.070 ±.003
-023	1 1/16	1 3/16	1/16	1.051 ±.010	.070 ±.003
-024	1 1/8	1 1/4	1/16	1.114 ±.010	.070 ±.003
-025	1 3/16	1 5/16	1/16	1.176 ±.011	.070 ±.003
-026	1 1/4	1 3/8	1/16	1.239 ±.011	.070 ±.003
-027	1 5/16	1 7/16	1/16	1.301 ±.011	.070 ±.003
-028	1 3/8	1 1/2	1/16	1.364 ±.013	.070 ±.003
-029	1 1/2	1 5/8	1/16	1.489 ±.013	.070 ±.003
-030	1 5/8	1 3/4	1/16	1.614 ±.013	.070 ±.003
-031	1 3/4	1 7/8	1/16	1.739 ±.015	.070 ±.003
-032	1 7/8	2	1/16	1.864 ±.015	.070 ±.003
-033	2	2 1/8	1/16	1.989 ±.018	.070 ±.003
-034	2 1/8	2 1/4	1/16	2.114 ±.018	.070 ±.003
-035	2 1/4	2 3/8	1/16	2.239 ±.018	.070 ±.003
-036	2 3/8	2 1/2	1/16	2.364 ±.018	.070 ±.003
-037	2 1/2	2 5/8	1/16	2.489 ±.018	.070 ±.003
-038	2 5/8	2 3/4	1/16	2.614 ±.020	.070 ±.003
-039	2 3/4	2 7/8	1/16	2.739 ±.020	.070 ±.003
-040	2 7/8	3	1/16	2.864 ±.020	.070 ±.003
-041	3	3 1/8	1/16	2.989 ±.024	.070 ±.003
-042	3 1/4	3 3/8	1/16	3.239 ±.024	.070 ±.003
-043	3 1/2	3 5/8	1/16	3.489 ±.024	.070 ±.003
-044	3 3/4	3 7/8	1/16	3.739 ±.027	.070 ±.003
-045	4	4 1/8	1/16	3.989 ±.027	.070 ±.003
-046	4 1/4	4 3/8	1/16	4.239 ±.030	.070 ±.003
-047	4 1/2	4 5/8	1/16	4.489 ±.030	.070 ±.003
-048	4 3/4	4 7/8	1/16	4.739 ±.030	.070 ±.003
-049	5	5 1/8	1/16	4.989 ±.037	.070 ±.003
-050	5 1/4	5 3/8	1/16	5.239 ±.037	.070 ±.003
-102	1/16	1/4	3/32	.049 ±.005	.103 ±.003
-103	3/32	9/32	3/32	.081 ±.005	.103 ±.003
-104	1/8	5/16	3/32	.112 ±.005	.103 ±.003
-105	5/32	11/32	3/32	.143 ±.005	.103 ±.003
-106	3/16	3/8	3/32	.174 ±.005	.103 ±.003
-107	7/32	13/32	3/32	.206 ±.005	.103 ±.003
-108	1/4	7/16	3/32	.237 ±.005	.103 ±.003
-109	5/16	1/2	3/32	.299 ±.005	.103 ±.003
-110	3/8	9/16	3/32	.362 ±.005	.103 ±.003
-111	7/16	5/8	3/32	.424 ±.005	.103 ±.003
-112	1/2	11/16	3/32	.487 ±.005	.103 ±.003
-113	9/16	3/4	3/32	.549 ±.005	.103 ±.003
-114	5/8	13/16	3/32	.612 ±.009	.103 ±.003

Standard AS-568* Size O-Rings

Many more O-ring sizes available, visit us online for our full listing.

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AS-568* NO.	NOMINAL REFERENCE			ACTUAL DIMENSIONS	
	I.D.	O.D.	Width	I.D. Tol.	W. Tol.
-115	1 ¹ / ₁₆	7 ⁷ / ₈	3 ³ / ₃₂	.674 ±.009	.103 ±.003
-116	3 ³ / ₄	1 ⁵ / ₁₆	3 ³ / ₃₂	.737 ±.009	.103 ±.003
-117	1 ³ / ₁₆	1	3 ³ / ₃₂	.799 ±.010	.103 ±.003
-118	7 ⁷ / ₈	1 1 ¹ / ₁₆	3 ³ / ₃₂	.862 ±.010	.103 ±.003
-119	1 ⁵ / ₁₆	1 1 ¹ / ₈	3 ³ / ₃₂	.924 ±.010	.103 ±.003
-120	1	1 3 ³ / ₁₆	3 ³ / ₃₂	.987 ±.010	.103 ±.003
-121	1 1 ¹ / ₁₆	1 1 ¹ / ₄	3 ³ / ₃₂	1.049 ±.010	.103 ±.003
-122	1 1 ¹ / ₈	1 5 ⁵ / ₁₆	3 ³ / ₃₂	1.112 ±.010	.103 ±.003
-123	1 3 ³ / ₁₆	1 3 ³ / ₈	3 ³ / ₃₂	1.174 ±.012	.103 ±.003
-124	1 1 ¹ / ₄	1 7 ⁷ / ₁₆	3 ³ / ₃₂	1.237 ±.012	.103 ±.003
-125	1 5 ⁵ / ₁₆	1 1 ¹ / ₂	3 ³ / ₃₂	1.299 ±.012	.103 ±.003
-126	1 3 ³ / ₈	1 9 ⁹ / ₁₆	3 ³ / ₃₂	1.362 ±.012	.103 ±.003
-127	1 7 ⁷ / ₁₆	1 5 ⁵ / ₈	3 ³ / ₃₂	1.424 ±.012	.103 ±.003
-128	1 1 ¹ / ₂	1 1 ¹ / ₁₆	3 ³ / ₃₂	1.487 ±.012	.103 ±.003
-129	1 9 ⁹ / ₁₆	1 3 ³ / ₄	3 ³ / ₃₂	1.549 ±.012	.103 ±.003
-130	1 5 ⁵ / ₈	1 1 ³ / ₁₆	3 ³ / ₃₂	1.612 ±.015	.103 ±.003
-131	1 1 ¹ / ₁₆	1 7 ⁷ / ₈	3 ³ / ₃₂	1.674 ±.015	.103 ±.003
-132	1 3 ³ / ₄	1 1 ⁵ / ₁₆	3 ³ / ₃₂	1.737 ±.015	.103 ±.003
-133	1 1 ³ / ₁₆	2	3 ³ / ₃₂	1.799 ±.015	.103 ±.003
-134	1 7 ⁷ / ₈	2 1 ¹ / ₁₆	3 ³ / ₃₂	1.862 ±.015	.103 ±.003
-135	1 1 ⁵ / ₁₆	2 1 ¹ / ₈	3 ³ / ₃₂	1.925 ±.017	.103 ±.003
-136	2	2 3 ³ / ₁₆	3 ³ / ₃₂	1.987 ±.017	.103 ±.003
-137	2 1 ¹ / ₁₆	2 1 ¹ / ₄	3 ³ / ₃₂	2.050 ±.017	.103 ±.003
-138	2 1 ¹ / ₈	2 5 ⁵ / ₁₆	3 ³ / ₃₂	2.112 ±.017	.103 ±.003
-139	2 3 ³ / ₁₆	2 3 ³ / ₈	3 ³ / ₃₂	2.175 ±.017	.103 ±.003
-140	2 1 ¹ / ₄	2 7 ⁷ / ₁₆	3 ³ / ₃₂	2.237 ±.017	.103 ±.003
-141	2 5 ⁵ / ₁₆	2 1 ¹ / ₂	3 ³ / ₃₂	2.300 ±.020	.103 ±.003
-142	2 3 ³ / ₈	2 9 ⁹ / ₁₆	3 ³ / ₃₂	2.362 ±.020	.103 ±.003
-143	2 7 ⁷ / ₁₆	2 5 ⁵ / ₈	3 ³ / ₃₂	2.425 ±.020	.103 ±.003
-144	2 1 ¹ / ₂	2 1 ¹ / ₁₆	3 ³ / ₃₂	2.487 ±.020	.103 ±.003
-145	2 9 ⁹ / ₁₆	2 3 ³ / ₄	3 ³ / ₃₂	2.550 ±.020	.103 ±.003
-146	2 5 ⁵ / ₈	2 1 ³ / ₁₆	3 ³ / ₃₂	2.612 ±.022	.103 ±.003
-147	2 1 ¹ / ₁₆	2 7 ⁷ / ₈	3 ³ / ₃₂	2.675 ±.022	.103 ±.003
-148	2 3 ³ / ₄	2 1 ⁵ / ₁₆	3 ³ / ₃₂	2.737 ±.022	.103 ±.003
-149	2 1 ⁵ / ₁₆	3	3 ³ / ₃₂	2.800 ±.022	.103 ±.003
-150	2 7 ⁷ / ₈	3 1 ¹ / ₁₆	3 ³ / ₃₂	2.862 ±.022	.103 ±.003
-151	3	3 3 ³ / ₁₆	3 ³ / ₃₂	2.987 ±.024	.103 ±.003
-152	3 1 ¹ / ₄	3 7 ⁷ / ₁₆	3 ³ / ₃₂	3.237 ±.024	.103 ±.003
-153	3 1 ¹ / ₂	3 1 ¹ / ₁₆	3 ³ / ₃₂	3.487 ±.024	.103 ±.003
-154	3 3 ³ / ₄	3 1 ⁵ / ₁₆	3 ³ / ₃₂	3.737 ±.028	.103 ±.003
-155	4	4 3 ³ / ₁₆	3 ³ / ₃₂	3.987 ±.028	.103 ±.003
-156	4 1 ¹ / ₄	4 7 ⁷ / ₁₆	3 ³ / ₃₂	4.237 ±.030	.103 ±.003
-157	4 1 ¹ / ₂	4 1 ¹ / ₁₆	3 ³ / ₃₂	4.487 ±.030	.103 ±.003
-158	4 3 ³ / ₄	4 1 ⁵ / ₁₆	3 ³ / ₃₂	4.737 ±.030	.103 ±.003
-159	5	5 3 ³ / ₁₆	3 ³ / ₃₂	4.987 ±.035	.103 ±.003
-160	5 1 ¹ / ₄	5 7 ⁷ / ₁₆	3 ³ / ₃₂	5.237 ±.035	.103 ±.003
-161	5 1 ¹ / ₂	5 1 ¹ / ₁₆	3 ³ / ₃₂	5.487 ±.035	.103 ±.003
-162	5 3 ³ / ₄	5 1 ⁵ / ₁₆	3 ³ / ₃₂	5.737 ±.035	.103 ±.003
-163	6	6 3 ³ / ₁₆	3 ³ / ₃₂	5.987 ±.035	.103 ±.003
-164	6 1 ¹ / ₄	6 7 ⁷ / ₁₆	3 ³ / ₃₂	6.237 ±.040	.103 ±.003
-165	6 1 ¹ / ₂	6 1 ¹ / ₁₆	3 ³ / ₃₂	6.487 ±.040	.103 ±.003
-166	6 3 ³ / ₄	6 1 ⁵ / ₁₆	3 ³ / ₃₂	6.737 ±.040	.103 ±.003
-167	7	7 3 ³ / ₁₆	3 ³ / ₃₂	6.987 ±.040	.103 ±.003
-168	7 1 ¹ / ₄	7 7 ⁷ / ₁₆	3 ³ / ₃₂	7.237 ±.045	.103 ±.003
-169	7 1 ¹ / ₂	7 1 ¹ / ₁₆	3 ³ / ₃₂	7.487 ±.045	.103 ±.003
-170	7 3 ³ / ₄	7 1 ⁵ / ₁₆	3 ³ / ₃₂	7.737 ±.045	.103 ±.003
-171	8	8 3 ³ / ₁₆	3 ³ / ₃₂	7.987 ±.045	.103 ±.003
-172	8 1 ¹ / ₄	8 7 ⁷ / ₁₆	3 ³ / ₃₂	8.237 ±.050	.103 ±.003
-173	8 1 ¹ / ₂	8 1 ¹ / ₁₆	3 ³ / ₃₂	8.487 ±.050	.103 ±.003
-174	8 3 ³ / ₄	8 1 ⁵ / ₁₆	3 ³ / ₃₂	8.737 ±.050	.103 ±.003
-175	9	9 3 ³ / ₁₆	3 ³ / ₃₂	8.987 ±.050	.103 ±.003
-176	9 1 ¹ / ₄	9 7 ⁷ / ₁₆	3 ³ / ₃₂	9.237 ±.055	.103 ±.003
-177	9 1 ¹ / ₂	9 1 ¹ / ₁₆	3 ³ / ₃₂	9.487 ±.055	.103 ±.003
-178	9 3 ³ / ₄	9 1 ⁵ / ₁₆	3 ³ / ₃₂	9.737 ±.055	.103 ±.003



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AS-568* NO.	NOMINAL REFERENCE			ACTUAL DIMENSIONS	
	I.D.	O.D.	Width	I.D. Tol.	W. Tol.
-201	3/16	7/16	1/8	.171 ±.005	.139 ±.004
-202	1/4	1/2	1/8	.234 ±.005	.139 ±.004
-203	5/16	9/16	1/8	.296 ±.005	.139 ±.004
-204	3/8	5/8	1/8	.359 ±.005	.139 ±.004
-205	7/16	1 1/16	1/8	.421 ±.005	.139 ±.004
-206	1/2	3/4	1/8	.484 ±.005	.139 ±.004
-207	9/16	1 3/16	1/8	.546 ±.007	.139 ±.004
-208	5/8	7/8	1/8	.609 ±.009	.139 ±.004
-209	1 1/16	1 5/16	1/8	.671 ±.009	.139 ±.004
-210	3/4	1	1/8	.734 ±.010	.139 ±.004
-211	1 3/16	1 1/16	1/8	.796 ±.010	.139 ±.004
-212	7/8	1 1/8	1/8	.859 ±.010	.139 ±.004
-213	1 5/16	1 1/16	1/8	.921 ±.010	.139 ±.004
-214	1	1 1/4	1/8	.984 ±.010	.139 ±.004
-215	1 1/16	1 5/16	1/8	1.046 ±.010	.139 ±.004
-216	1 1/8	1 3/8	1/8	1.109 ±.012	.139 ±.004
-217	1 3/16	1 7/16	1/8	1.171 ±.012	.139 ±.004
-218	1 1/4	1 1/2	1/8	1.234 ±.012	.139 ±.004
-219	1 5/16	1 9/16	1/8	1.296 ±.012	.139 ±.004
-220	1 3/8	1 5/8	1/8	1.359 ±.012	.139 ±.004
-221	1 7/16	1 11/16	1/8	1.421 ±.012	.139 ±.004
-222	1 1/2	1 3/4	1/8	1.484 ±.015	.139 ±.004
-223	1 5/8	1 7/8	1/8	1.609 ±.015	.139 ±.004
-224	1 3/4	2	1/8	1.734 ±.015	.139 ±.004
-225	1 7/8	2 1/8	1/8	1.859 ±.018	.139 ±.004
-226	2	2 1/4	1/8	1.984 ±.018	.139 ±.004
-227	2 1/8	2 3/8	1/8	2.109 ±.018	.139 ±.004
-228	2 1/4	2 1/2	1/8	2.234 ±.020	.139 ±.004
-229	2 3/8	2 5/8	1/8	2.359 ±.020	.139 ±.004
-230	2 1/2	2 3/4	1/8	2.484 ±.020	.139 ±.004
-231	2 5/8	2 7/8	1/8	2.609 ±.020	.139 ±.004
-232	2 3/4	3	1/8	2.734 ±.024	.139 ±.004
-233	2 7/8	3 1/8	1/8	2.859 ±.024	.139 ±.004
-234	3	3 1/4	1/8	2.984 ±.024	.139 ±.004
-235	3 1/8	3 3/8	1/8	3.109 ±.024	.139 ±.004
-236	3 1/4	3 1/2	1/8	3.234 ±.024	.139 ±.004
-237	3 3/8	3 5/8	1/8	3.359 ±.024	.139 ±.004
-238	3 1/2	3 3/4	1/8	3.484 ±.024	.139 ±.004
-239	3 5/8	3 7/8	1/8	3.609 ±.028	.139 ±.004
-240	3 3/4	4	1/8	3.734 ±.028	.139 ±.004
-241	3 7/8	4 1/8	1/8	3.859 ±.028	.139 ±.004
-242	4	4 1/4	1/8	3.984 ±.028	.139 ±.004
-243	4 1/8	4 3/8	1/8	4.109 ±.028	.139 ±.004
-244	4 1/4	4 1/2	1/8	4.234 ±.030	.139 ±.004
-245	4 3/8	4 5/8	1/8	4.359 ±.030	.139 ±.004
-246	4 1/2	4 3/4	1/8	4.484 ±.030	.139 ±.004
-247	4 5/8	4 7/8	1/8	4.609 ±.030	.139 ±.004
-248	4 3/4	5	1/8	4.734 ±.030	.139 ±.004
-249	4 7/8	5 1/8	1/8	4.859 ±.030	.139 ±.004
-250	5	5 1/4	1/8	4.984 ±.035	.139 ±.004
-251	5 1/8	5 3/8	1/8	5.109 ±.035	.139 ±.004
-252	5 1/4	5 1/2	1/8	5.234 ±.035	.139 ±.004
-253	5 3/8	5 5/8	1/8	5.359 ±.035	.139 ±.004
-254	5 1/2	5 3/4	1/8	5.484 ±.035	.139 ±.004
-255	5 5/8	5 7/8	1/8	5.609 ±.035	.139 ±.004
-256	5 3/4	6	1/8	5.734 ±.035	.139 ±.004
-257	5 7/8	6 1/8	1/8	5.859 ±.035	.139 ±.004
-258	6	6 1/4	1/8	5.984 ±.035	.139 ±.004
-259	6 1/4	6 1/2	1/8	6.234 ±.040	.139 ±.004
-260	6 1/2	6 3/4	1/8	6.484 ±.040	.139 ±.004
-261	6 3/4	7	1/8	6.734 ±.040	.139 ±.004
-262	7	7 1/4	1/8	6.984 ±.040	.139 ±.004
-263	7 1/4	7 1/2	1/8	7.234 ±.045	.139 ±.004
-264	7 1/2	7 3/4	1/8	7.484 ±.045	.139 ±.004

Standard AS-568* Size O-Rings

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AS-568* NO.	NOMINAL REFERENCE			ACTUAL DIMENSIONS	
	I.D.	O.D.	Width	I.D. Tol.	W. Tol.
-265	7 ¾	8	⅛	7.734 ±.045	.139 ±.004
-266	8	8 ¼	⅛	7.984 ±.045	.139 ±.004
-267	8 ¼	8 ½	⅛	8.234 ±.050	.139 ±.004
-268	8 ½	8 ¾	⅛	8.484 ±.050	.139 ±.004
-269	8 ¾	9	⅛	8.734 ±.050	.139 ±.004
-270	9	9 ¼	⅛	8.984 ±.050	.139 ±.004
-271	9 ¼	9 ½	⅛	9.234 ±.055	.139 ±.004
-272	9 ½	9 ¾	⅛	9.484 ±.055	.139 ±.004
-273	9 ¾	10	⅛	9.734 ±.055	.139 ±.004
-274	10	10 ¼	⅛	9.984 ±.055	.139 ±.004
-275	10½	10 ¾	⅛	10.484 ±.055	.139 ±.004
-276	11	11 ¼	⅛	10.984 ±.065	.139 ±.004
-277	11 ½	11 ¾	⅛	11.484 ±.065	.139 ±.004
-278	12	12 ¼	⅛	11.984 ±.065	.139 ±.004
-279	13	13 ¼	⅛	12.984 ±.065	.139 ±.004
-280	14	14 ¼	⅛	13.984 ±.065	.139 ±.004
-281	15	15 ¼	⅛	14.984 ±.065	.139 ±.004
-282	16	16 ¼	⅛	15.955 ±.075	.139 ±.004
-283	17	17 ¼	⅛	16.955 ±.080	.139 ±.004
-284	18	18 ¼	⅛	17.955 ±.085	.139 ±.004
-309	7/16	13/16	3/16	.412 ±.005	.210 ±.005
-310	½	7/8	3/16	.475 ±.005	.210 ±.005
-311	9/16	15/16	3/16	.537 ±.007	.210 ±.005
-312	⅜	1	3/16	.600 ±.009	.210 ±.005
-313	1 1/16	1 1/16	3/16	.662 ±.009	.210 ±.005
-314	¾	1 1/8	3/16	.725 ±.010	.210 ±.005
-315	13/16	1 3/16	3/16	.787 ±.010	.210 ±.005
-316	7/8	1 ¼	3/16	.850 ±.050	.210 ±.005
-317	15/16	1 5/16	3/16	.912 ±.010	.210 ±.005
-318	1	1 ⅝	3/16	.975 ±.010	.210 ±.005
-319	1 1/16	1 7/16	3/16	1.037 ±.010	.210 ±.005
-320	1 1/8	1 ½	3/16	1.100 ±.012	.210 ±.005
-321	1 3/16	1 9/16	3/16	1.162 ±.012	.210 ±.005
-322	1 ¼	1 ⅝	3/16	1.225 ±.012	.210 ±.005
-323	1 5/16	1 11/16	3/16	1.287 ±.012	.210 ±.005
-324	1 ⅜	1 ¾	3/16	1.350 ±.012	.210 ±.005
-325	1 ½	1 7/8	3/16	1.475 ±.015	.210 ±.005
-326	1 5/8	2	3/16	1.600 ±.015	.210 ±.005
-327	1 ¾	2 1/8	3/16	1.725 ±.015	.210 ±.005
-328	1 7/8	2 ¼	3/16	1.850 ±.015	.210 ±.005
-329	2	2 ⅝	3/16	1.975 ±.018	.210 ±.005
-330	2 1/8	2 ½	3/16	2.100 ±.018	.210 ±.005
-331	2 ¼	2 5/8	3/16	2.225 ±.018	.210 ±.005
-332	2 ⅜	2 ¾	3/16	2.350 ±.018	.210 ±.005
-333	2 ½	2 7/8	3/16	2.475 ±.020	.210 ±.005
-334	2 5/8	3	3/16	2.600 ±.020	.210 ±.005
-335	2 ¾	3 1/8	3/16	2.725 ±.020	.210 ±.005
-336	2 7/8	3 ¼	3/16	2.850 ±.020	.210 ±.005
-337	3	3 ⅝	3/16	2.975 ±.024	.210 ±.005
-338	3 1/8	3 ½	3/16	3.100 ±.024	.210 ±.005
-339	3 ¼	3 5/8	3/16	3.225 ±.024	.210 ±.005
-340	3 ⅝	3 ¾	3/16	3.350 ±.024	.210 ±.005
-341	3 ½	3 7/8	3/16	3.475 ±.024	.210 ±.005
-342	3 5/8	4	3/16	3.600 ±.028	.210 ±.005
-343	3 ¾	4 1/8	3/16	3.725 ±.028	.210 ±.005
-344	3 7/8	4 ¼	3/16	3.850 ±.028	.210 ±.005
-345	4	4 ⅝	3/16	3.975 ±.028	.210 ±.005
-346	4 1/8	4 ½	3/16	4.100 ±.028	.210 ±.005
-347	4 ¼	4 5/8	3/16	4.225 ±.030	.210 ±.005
-348	4 ⅝	4 ¾	3/16	4.350 ±.030	.210 ±.005
-349	4 ½	4 7/8	3/16	4.475 ±.030	.210 ±.005

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AS-568* NO.	NOMINAL REFERENCE			ACTUAL DIMENSIONS	
	I.D.	O.D.	Width	I.D. Tol.	W. Tol.
-350	4 5/8	5	3/16	4.600 ±.030	.210 ±.005
-351	4 3/4	5 1/8	3/16	4.725 ±.030	.210 ±.005
-352	4 7/8	5 1/4	3/16	4.850 ±.030	.210 ±.005
-353	5	5 3/8	3/16	4.975 ±.037	.210 ±.005
-354	5 1/8	5 1/2	3/16	5.100 ±.037	.210 ±.005
-355	5 1/4	5 5/8	3/16	5.225 ±.037	.210 ±.005
-356	5 3/8	5 3/4	3/16	5.350 ±.037	.210 ±.005
-357	5 1/2	5 7/8	3/16	5.475 ±.037	.210 ±.005
-358	5 5/8	6	3/16	5.600 ±.037	.210 ±.005
-359	5 3/4	6 1/8	3/16	5.725 ±.037	.210 ±.005
-360	5 7/8	6 1/4	3/16	5.850 ±.037	.210 ±.005
-361	6	6 3/8	3/16	5.975 ±.037	.210 ±.005
-362	6 1/4	6 5/8	3/16	6.225 ±.040	.210 ±.005
-363	6 1/2	6 7/8	3/16	6.475 ±.040	.210 ±.005
-364	6 3/4	7 1/8	3/16	6.725 ±.040	.210 ±.005
-365	7	7 3/8	3/16	6.975 ±.040	.210 ±.005
-366	7 1/4	7 5/8	3/16	7.225 ±.045	.210 ±.005
-367	7 1/2	7 7/8	3/16	7.475 ±.045	.210 ±.005
-368	7 3/4	8 1/8	3/16	7.725 ±.045	.210 ±.005
-369	8	8 3/8	3/16	7.975 ±.045	.210 ±.005
-370	8 1/4	8 5/8	3/16	8.225 ±.050	.210 ±.005
-371	8 1/2	8 7/8	3/16	8.475 ±.050	.210 ±.005
-372	8 3/4	9 1/8	3/16	8.725 ±.050	.210 ±.005
-373	9	9 3/8	3/16	8.975 ±.050	.210 ±.005
-374	9 1/4	9 5/8	3/16	9.225 ±.055	.210 ±.005
-375	9 1/2	9 7/8	3/16	9.475 ±.055	.210 ±.005
-376	9 3/4	10 1/8	3/16	9.725 ±.055	.210 ±.005
-377	10	10 3/8	3/16	9.975 ±.055	.210 ±.005
-378	10 1/2	10 7/8	3/16	10.475 ±.060	.210 ±.005
-379	11	11 3/8	3/16	10.975 ±.060	.210 ±.005
-380	11 1/2	11 7/8	3/16	11.475 ±.065	.210 ±.005
-381	12	12 3/8	3/16	11.975 ±.065	.210 ±.005
-382	13	13 3/8	3/16	12.975 ±.065	.210 ±.005
-383	14	14 3/8	3/16	13.975 ±.070	.210 ±.005
-384	15	15 3/8	3/16	14.975 ±.070	.210 ±.005
-385	16	16 3/8	3/16	15.955 ±.075	.210 ±.005
-386	17	17 3/8	3/16	16.955 ±.080	.210 ±.005
-387	18	18 3/8	3/16	17.955 ±.085	.210 ±.005
-388	19	19 3/8	3/16	18.955 ±.090	.210 ±.005
-389	20	20 3/8	3/16	19.955 ±.095	.210 ±.005
-390	21	21 3/8	3/16	20.955 ±.095	.210 ±.005
-391	22	22 3/8	3/16	21.955 ±.100	.210 ±.005
-392	23	23 3/8	3/16	22.940 ±.105	.210 ±.005
-393	24	24 3/8	3/16	23.940 ±.110	.210 ±.005
-394	25	25 3/8	3/16	24.940 ±.115	.210 ±.005
-395	26	26 3/8	3/16	25.940 ±.120	.210 ±.005
-425	4 1/2	5	1/4	4.475 ±.033	.275 ±.006
-426	4 5/8	5 1/8	1/4	4.600 ±.033	.275 ±.006
-427	4 3/4	5 1/4	1/4	4.725 ±.033	.275 ±.006
-428	4 7/8	5 3/8	1/4	4.850 ±.033	.275 ±.006
-429	5	5 1/2	1/4	4.975 ±.037	.275 ±.006
-430	5 1/8	5 5/8	1/4	5.100 ±.037	.275 ±.006
-431	5 1/4	5 3/4	1/4	5.225 ±.037	.275 ±.006
-432	5 3/8	5 7/8	1/4	5.350 ±.037	.275 ±.006
-433	5 1/2	6	1/4	5.475 ±.037	.275 ±.006
-434	5 5/8	6 1/8	1/4	5.600 ±.037	.275 ±.006
-435	5 3/4	6 1/4	1/4	5.725 ±.037	.275 ±.006
-436	5 7/8	6 3/8	1/4	5.850 ±.037	.275 ±.006
-437	6	6 1/2	1/4	5.975 ±.037	.275 ±.006
-438	6 1/4	6 3/4	1/4	6.225 ±.040	.275 ±.006
-439	6 1/2	7	1/4	6.475 ±.040	.275 ±.006

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AS-568* NO.	NOMINAL REFERENCE			ACTUAL DIMENSIONS	
	I.D.	O.D.	Width	I.D. Tol.	W. Tol.
-440	6 ¾	7 ¼	¼	6.725 ±.040	.275 ±.006
-441	7	7 ½	¼	6.975 ±.040	.275 ±.006
-442	7 ¼	7 ¾	¼	7.225 ±.045	.275 ±.006
-443	7 ½	8	¼	7.475 ±.045	.275 ±.006
-444	7 ¾	8 ¼	¼	7.725 ±.045	.275 ±.006
-445	8	8 ½	¼	7.975 ±.045	.275 ±.006
-446	8 ½	9	¼	8.475 ±.055	.275 ±.006
-447	9	9 ½	¼	8.975 ±.055	.275 ±.006
-448	9 ½	10	¼	9.475 ±.055	.275 ±.006
-449	10	10 ½	¼	9.975 ±.055	.275 ±.006
-450	10 ½	11	¼	10.475 ±.060	.275 ±.006
-451	11	11 ½	¼	10.975 ±.060	.275 ±.006
-452	11 ½	12	¼	11.475 ±.060	.275 ±.006
-453	12	12 ½	¼	11.975 ±.060	.275 ±.006
-454	12 ½	13	¼	12.475 ±.060	.275 ±.006
-455	13	13 ½	¼	12.975 ±.060	.275 ±.006
-456	13 ½	14	¼	13.475 ±.070	.275 ±.006
-457	14	14 ½	¼	13.975 ±.070	.275 ±.006
-458	14 ½	15	¼	14.475 ±.070	.275 ±.006
-459	15	15 ½	¼	14.975 ±.070	.275 ±.006
-460	15 ½	16	¼	15.475 ±.070	.275 ±.006
-461	16	16 ½	¼	15.955 ±.075	.275 ±.006
-462	16 ½	17	¼	16.455 ±.075	.275 ±.006
-463	17	17 ½	¼	16.955 ±.080	.275 ±.006
-464	17 ½	18	¼	17.455 ±.085	.275 ±.006
-465	18	18 ½	¼	17.955 ±.085	.275 ±.006
-466	18 ½	19	¼	18.455 ±.085	.275 ±.006
-467	19	19 ½	¼	18.955 ±.090	.275 ±.006
-468	19 ½	20	¼	19.455 ±.090	.275 ±.006
-469	20	20 ½	¼	19.955 ±.090	.275 ±.006
-470	21	21 ½	¼	20.955 ±.090	.275 ±.006
-471	22	22 ½	¼	21.955 ±.100	.275 ±.006
-472	23	23 ½	¼	22.940 ±.105	.275 ±.006
-473	24	24 ½	¼	23.940 ±.110	.275 ±.006
-474	25	25 ½	¼	24.940 ±.115	.275 ±.006
-475	26	26 ½	¼	25.940 ±.120	.275 ±.006

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Standard O-Rings BOSS GASKETS For Straight Thread Tube Fitting

AS-568* NO.	TUBE SIZE (O.D.) FRACTIONAL	ACTUAL DIMENSIONS	
		I.D. Tol.	W.Tol.
-901	3/32	.185 ±.005	.056 ±.003
-902	1/8	.239 ±.005	.064 ±.003
-903	3/16	.301 ±.005	.064 ±.003
-904	1/4	.351 ±.005	.072 ±.003
-905	5/16	.414 ±.005	.072 ±.003
-906	3/8	.468 ±.005	.078 ±.003
-907	7/16	.530 ±.005	.082 ±.003
-908	1/2	.644 ±.009	.087 ±.003
-909	9/16	.706 ±.009	.097 ±.003
-910	5/8	.755 ±.009	.097 ±.003
-911	1 1/16	.863 ±.009	.116 ±.004
-912	3/4	.924 ±.009	.116 ±.004
-913	13/16	.986 ±.010	.116 ±.004
-914	7/8	1.047 ±.010	.116 ±.004
-916	1	1.171 ±.010	.116 ±.004
-918	1 1/8	1.355 ±.012	.116 ±.004
-920	1 1/4	1.475 ±.014	.118 ±.004
-924	1 1/2	1.720 ±.014	.118 ±.004
-928	1 3/4	2.090 ±.018	.118 ±.004
-932	2	2.337 ±.018	.118 ±.004

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O-Rings for Straight Thread Tube Fitting Bosses

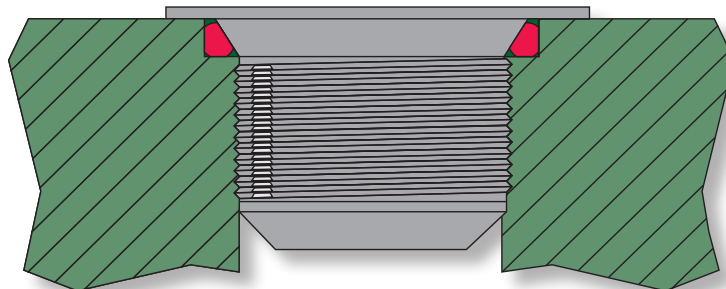


Illustration 9.2

This class of O-rings is primarily utilized in hydraulic tubing and fittings up to 3000 psi. A straight thread, not tapered, is used so that the O-ring seals under compression.

Because of their use in primarily high pressure applications, these seals are normally supplied in 90 durometer material.