14. O-ring Size Charts

The following tables list approximately 2000 O-ring sizes in order by inside diameter. These O-ring sizes correspond to US Standard AS568, British Standard, Swedish, as well as many common metric sizes according to DIN and ISO standards. Most of these sizes are readily available from ERIKS stock in:

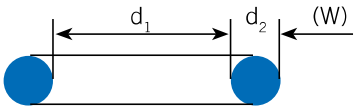
- Nitrile NBR 70 and 90 Shore A,
- Fluoroelastomer FKM (Viton®) 75 and 90 Shore A,
- Perfluoroelastomer FFKM (Kalrez®) 75 Shore A.
- Ethylene-propylene EP, EPDM 70° Shore A,
- Silicone VMQ 70 Shore A,
- PTFE (virgin teflon),
- Teflex FEP/Viton®
- Teflex FEP/VMQ

The list of standards is continually being expanded. Please contact the nearest ERIKS representative for sizes not indicated here.

Standards in Different Countries

Norm	Cross Section (mm)					
AS 568A, BS 1806	1,78	2,62	3,53	5,33	6,99	
DIN 3771 / ISO3601	1,80	2,65	3,55	5,30	7,00	
SMS 1586, BS 4518	1,60	2,40	3,00	5,70	8,40	
Japanese Norm JIS B 2401	1,60	1,90	2,40	3,00	5,70	8,40
Metric	1,00	1,50	2,00	2,50	3,00	5,00
	10,00	12,00				

The different section diameters are due to the standards in different countries.



Note:
The AS O-ring Size Chart has a column that shows the Nominal Size alongside the Actual Size. Originally the nominal size was just for a listing of the approximate fractional dimensions of the O-ring. Prior to the common use of dial calipers many people called out a 1 inch by 1-1/4 rt = O-ring, this was a dash -214 O-ring. They used to also use these fractional dimensions as the gland size. So, the nominal size is in fact based on the gland size and not the O-ring size.

14. A. Standard O-ring Sizes

Standard O-ring Sizes (200 Series 201 to 285 cross section Diameters w = 139 ± .004 inches, w = 3,53 ± 0,10 mm

Size Only	Nominal Size (Inches)			Standard O-ring Size (Inches)			Metric O-ring Size (millimeters)		
AS 568A Uniform				Actual Per AS 568 A			Actual Per AS 568A		
Dash No.	I.D.	O.D.	W.	I.D.	Tol. +/-	W	I.D.	Tol. +/-	W
-201	3/16	7/16	1/8	.171	.055	.139	4,34	0,13	3,53
-202	1/4	1/2	1/8	.234	.005	.139	5,94	0,13	3,53
-203	5/16	9/16	1/8	.296	.005	.139	7,52	0,13	3,53
-204	3/8	5/8	1/8	.359	.005	.139	9,12	0,13	3,53
-205	7/16	11/16	1/8	.421	.005	.139	10,69	0,13	3,53
-206	1/2	3/4	1/8	.484	.005	.139	12,29	0,13	3,53
-207	9/16	13/16	1/8	.546	.007	.139	13,87	0,18	3,53
-208	5/8	7/8	1/8	.609	.009	.139	15,47	0,23	3,53
-209	11/16	15/16	1/8	.671	.010	.139	17,04	0,23	3,53
-210	3/4	1	1/8	.734	.010	.139	18,64	0,25	3,53
-211	13/16	1- 1/16	1/8	.796	.010	.139	20,22	0,25	3,53
-212	7/8	1- 1/8	1/8	.859	.010	.139	21,82	0,25	3,53
-213	15/16	1- 3/16	1/8	.921	.010	.139	23,39	0,25	3,53
-214	1	1- 1/4	1/8	.984	.010	.139	24,99	0,25	3,53
-215	1- 1/16	1- 5/16	1/8	1.046	.010	.139	26,57	0,25	3,53
-216	1- 1/8	1- 3/8	1/8	1.109	.012	.139	28,17	0,30	3,53
-217	1- 3/16	1- 7/16	1/8	1.171	.012	.139	29,74	0,30	3,53
-218	1- 1/4	1- 1/2	1/8	1.234	.012	.139	31,34	0,30	3,53
-219	1- 5/16	1- 9/16	1/8	1.296	.012	.139	32,92	0,30	3,53
-220	1- 3/8	1- 5/8	1/8	1.359	.012	.139	34,52	0,30	3,53
-221	1- 7/16	1- 11/16	1/8	1.421	.012	.139	36,09	0,30	3,53
-222	1- 1/2	1- 3/4	1/8	1.484	.015	.139	37,69	0,38	3,53
-223	1- 5/8	1- 7/8	1/8	1.609	.015	.139	40,87	0,38	3,53
-224	1- 3/4	2	1/8	1.734	.015	.139	44,04	0,38	3,53
-225	1- 7/8	2- 1/8	1/8	1.859	.015	.139	47,22	0,46	3,53
-226	2	2- 1/4	1/8	1.984	.018	.139	50,39	0,46	3,53
-227	2- 1/16	2- 3/8	1/8	2.109	.018	.139	53,57	0,46	3,53
-228	2- 1/4	2- 1/2	1/8	2.234	.020	.139	56,74	0,51	3,53
-229	2- 3/8	2- 5/8	1/8	2.359	.020	.139	59,92	0,51	3,53
-230	2- 1/2	2- 3/4	1/8	2.484	.020	.139	63,09	0,51	3,53
-231	2- 5/8	2- 7/8	1/8	2.609	.020	.139	66,27	0,51	3,53
-232	2- 3/4	3	1/8	2.734	.024	.139	69,44	0,61	3,53
-233	2- 7/8	3- 1/8	1/8	2.859	.024	.139	72,62	0,61	3,53
-234	3	3- 1/4	1/8	2.984	.024	.139	75,79	0,61	3,53
-235	3- 1/8	3- 3/8	1/8	3.109	.024	.139	78,97	0,61	3,53
-236	3- 1/4	3- 1/2	1/8	3.234	.024	.139	82,14	0,61	3,53
-237	3- 3/8	3- 5/8	1/8	3.359	.024	.139	85,32	0,61	3,53
-238	3- 1/2	3- 3/4	1/8	3.484	.024	.139	88,49	0,61	3,53
-239	3- 5/8	3- 7/8	1/8	3.609	.024	.139	91,67	0,71	3,53
-240	3- 3/4	4	1/8	3.734	.028	.139	94,84	0,71	3,53
-241	3- 7/8	4- 1/8	1/8	3.859	.028	.139	98,02	0,71	3,53
-242	4	4- 1/4	1/8	3.984	.028	.139	101,19	0,71	3,53