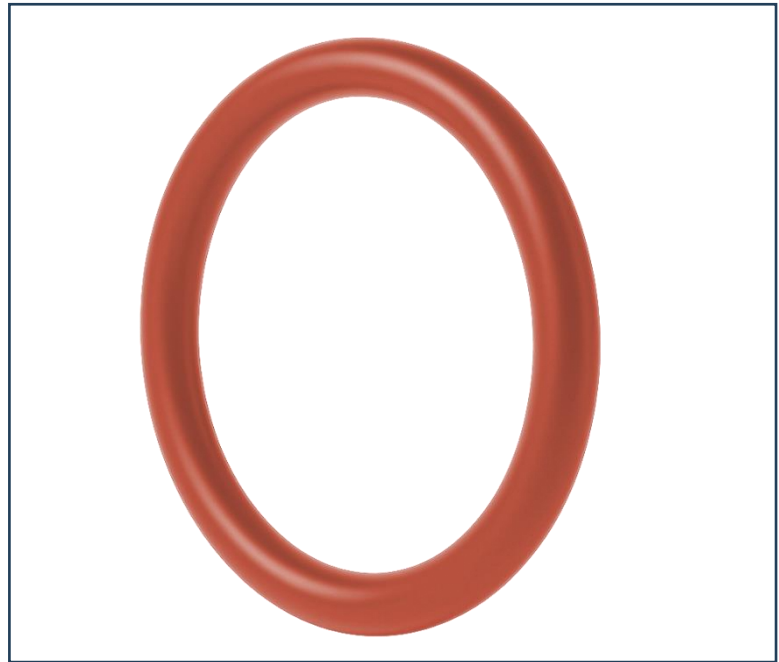


Features

- FDA Approved

RS Imperial Silicone 70 ShA FDA O-rings



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

Silicone (VMQ) FDA O-rings are engineered to provide outstanding sealing performance in harsh environments, offering excellent resistance to extreme temperatures, ozone, weathering, and many chemicals. Known for their exceptional flexibility, high-temperature stability, and excellent electrical insulation properties, VMQ O-rings deliver long-lasting durability in critical applications where reliability and performance are paramount.

Key Benefits:

- Chemical Resistance
- High-Temperature Stability
- Low-Temperature Flexibility
- Low Compression Set
- Long-Term Durability
- High Mechanical Strength

Applications:

- Automotive
- Chemical Processing
- Oil & Gas
- Pharmaceuticals
- Food & Beverage (especially where contamination must be avoided)
- Medical Devices (due to their non-toxic properties)

General Specifications

Type	O-rings
O-ring Type:	Imperial
Material:	Silicone (VMQ)
Hardness	70 ShA
Colour	Red
Operating Temperature Range	-50°C to +232°C
Minimum Operating Temperature	-50°C
Maximum Operating Temperature	+232°C
Internal Diameter	See below table for details
Cross section	See below table for details
Tensile Strength	6.1 MPa

	Millimetres (mm)				Inches (")				Nominal (Inch dimensions)		
RS Article Number	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	Standard Reference
0771843	1.42	0.12	1.52	0.08	0.06	0.005	0.060	0.003	1/16	1/16	AS 568-3,BS 1806-3,Dowty-200-003
0772043	3.68	0.14	1.78	0.08	0.14	0.006	0.070	0.003	5/32	1/16	AS 568-7,BS 1806-7,Dowty-200-007

0771845	4.47	0.14	1.78	0.08	0.18	0.006	0.070	0.003	3/16	1/16	AS 568-8,BS 1806-8,Dowty-200-008
0771852	5.23	0.15	2.62	0.09	0.21	0.006	0.103	0.004	7/32	3/32	AS 568-107,BS 1806-107,Dowty-200-107
0771846	6.07	0.15	1.78	0.08	0.24	0.006	0.070	0.003	1/4	1/16	AS 568-010,BS 1806-010,Dowty-200-010
0772239	7.52	0.17	3.53	0.1	0.30	0.007	0.139	0.004	9/32	1/8	AS 568-203,BS 1806-203,Dowty-200-203
0772241	9.19	0.18	2.62	0.09	0.36	0.007	0.103	0.004	3/8	3/32	AS 568-110,BS 1806-110,Dowty-200-110
0772046	9.25	0.18	1.78	0.08	0.36	0.007	0.070	0.003	3/8	1/16	AS 568-012,BS 1806-012,Dowty-200-012
0772235	10.77	0.19	2.62	0.09	0.42	0.007	0.103	0.004	7/16	3/32	AS 568-111,BS 1806-111,Dowty-200-111
0771849	10.82	0.19	1.78	0.08	0.43	0.007	0.070	0.003	7/16	1/16	AS 568-013,BS 1806-013,Dowty-200-013
0772160	12.29	0.2	3.53	0.1	0.48	0.008	0.139	0.004	15/32	1/8	AS 568-206,BS 1806-206,Dowty-200-206
0771850	12.42	0.2	1.78	0.08	0.49	0.008	0.070	0.003	1/2	1/16	AS 568-014,BS 1806-014,Dowty-200-014
0772050	14	0.22	1.78	0.08	0.55	0.009	0.070	0.003	9/16	1/16	AS 568-015,BS 1806-015,Dowty-200-015
0772242	15.54	0.23	2.62	0.09	0.61	0.009	0.103	0.004	5/8	3/32	AS 568-114,BS 1806-114,Dowty-200-114
0772052	15.6	0.23	1.78	0.08	0.61	0.009	0.070	0.003	5/8	1/16	AS 568-016,BS 1806-016,Dowty-200-016
Millimetres (mm)					Inches (")				Nominal (Inch dimensions)		
RS Article Number	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	Standard Reference
0772254	17.12	0.24	2.62	0.09	0.67	0.009	0.103	0.004	11/16	3/32	AS 568-115,BS 1806-115,Dowty-200-115
0771801	17.17	0.24	1.78	0.08	0.68	0.009	0.070	0.003	11/16	1/16	AS 568-017,BS 1806-

											017,Dowty-200-017
0772154	18.72	0.25	2.62	0.09	0.74	0.010	0.103	0.004	3/4	3/32	AS 568-116,BS 1806-116,Dowty-200-116
0771802	18.77	0.25	1.78	0.08	0.74	0.010	0.070	0.003	3/4	1/16	AS 568-018,BS 1806-018,Dowty-200-018
0772261	20.22	0.26	3.53	0.1	0.80	0.010	0.139	0.004	25/32	1/8	AS 568-211,BS 1806-211,Dowty-200-211
0772155	20.29	0.26	2.62	0.09	0.80	0.010	0.103	0.004	13/16	3/32	AS 568-117,BS 1806-117,Dowty-200-117
0771804	20.35	0.26	1.78	0.08	0.80	0.010	0.070	0.003	13/16	1/16	AS 568-019,BS 1806-019,Dowty-200-019
0771811	21.82	0.27	3.53	0.1	0.86	0.011	0.139	0.004	27/32	1/8	AS 568-212,BS 1806-212,Dowty-200-212
0771806	21.95	0.27	1.78	0.08	0.86	0.011	0.070	0.003	7/8	1/16	AS 568-020,BS 1806-020,Dowty-200-020
0771807	25.12	0.3	1.78	0.08	0.99	0.012	0.070	0.003	1	1/16	AS 568-022,BS 1806-022,Dowty-200-022
0772232	26.7	0.31	1.78	0.08	1.05	0.012	0.070	0.003	1 1/16	1/16	AS 568-023,BS 1806-023,Dowty-200-023
0772233	28.3	0.32	1.78	0.08	1.11	0.013	0.070	0.003	1 1/8	1/16	AS 568-024,BS 1806-024,Dowty-200-024
0772156	29.82	0.33	2.62	0.09	1.17	0.013	0.103	0.004	1 3/16	3/32	AS 568-123,BS 1806-123,Dowty-200-123
0771901	31.34	0.34	3.53	0.1	1.23	0.013	0.139	0.004	1 7/32	1/8	AS 568-218,BS 1806-218,Dowty-200-218
	Millimetres (mm)				Inches (")				Nominal (Inch dimensions)		
RS Article Number	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	Standard Reference
0772157	31.42	0.34	2.62	0.09	1.24	0.013	0.103	0.004	1 1/4	3/32	AS 568-124,BS 1806-124,Dowty-200-124
0772084	36.09	0.38	3.53	0.1	1.42	0.015	0.139	0.004	1 13/32	1/8	AS 568-221,BS 1806-

											221,Dowty-200-221
0772085	40.87	0.41	3.53	0.1	1.61	0.016	0.139	0.004	1 19/32	1/8	AS 568-223,BS 1806-223,Dowty-200-223
0772236	41	0.41	1.78	0.08	1.61	0.016	0.070	0.003	1 5/8	1/16	AS 568-030,BS 1806-030,Dowty-200-030
0771842	43.82	0.43	5.33	0.13	1.73	0.017	0.210	0.005	1 23/32	7/32	AS 568-327,BS 1806-327,Dowty-200-327
0772086	44.04	0.43	3.53	0.1	1.73	0.017	0.139	0.004	1 23/32	1/8	AS 568-224,BS 1806-224,Dowty-200-224
0772087	47.22	0.46	3.53	0.1	1.86	0.018	0.139	0.004	1 27/32	1/8	AS 568-225,BS 1806-225,Dowty-200-225
0771894	47.29	0.46	2.62	0.09	1.86	0.018	0.103	0.004	1 7/8	3/32	AS 568-134,BS 1806-134,Dowty-200-134
0771813	50.39	0.48	3.53	0.1	1.98	0.019	0.139	0.004	1 31/32	1/8	AS 568-226,BS 1806-226,Dowty-200-226
0771896	50.47	0.48	2.62	0.09	1.99	0.019	0.103	0.004	2	3/32	AS 568-136,BS 1806-136,Dowty-200-136
0772089	53.57	0.5	3.53	0.1	2.11	0.020	0.139	0.004	2 3/32	1/8	AS 568-227,BS 1806-227,Dowty-200-227
0771898	53.64	0.5	2.62	0.09	2.11	0.020	0.103	0.004	2 1/8	3/32	AS 568-138,BS 1806-138,Dowty-200-138
0772090	56.74	0.52	3.53	0.1	2.23	0.020	0.139	0.004	2 7/32	1/8	AS 568-228,BS 1806-228,Dowty-200-228
0771899	56.82	0.52	2.62	0.09	2.24	0.020	0.103	0.004	2 1/4	3/32	AS 568-140,BS 1806-140,Dowty-200-140
Millimetres (mm)					Inches (")				Nominal (Inch dimensions)		
RS Article Number	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	Standard Reference
0771892	63.22	0.57	1.78	0.08	2.49	0.022	0.070	0.003	2 1/2	1/16	AS 568-037,BS 1806-037,Dowty-200-037
0771900	71.12	0.62	2.62	0.09	2.80	0.024	0.103	0.004	2 13/16	3/32	AS 568-149,BS 1806-

											149,Dowty-200-149
0771984	72.39	0.63	5.33	0.13	2.85	0.025	0.210	0.005	2 27/32	7/32	AS 568-336,BS 1806-336,Dowty-200-336
0771985	75.57	0.65	5.33	0.13	2.98	0.026	0.210	0.005	2 31/32	7/32	AS 568-337,BS 1806-337,Dowty-200-337
0772266	82.14	0.7	3.53	0.1	3.23	0.028	0.139	0.004	3 7/32	1/8	AS 568-236,BS 1806-236,Dowty-200-236
0771893	88.62	0.74	1.78	0.08	3.49	0.029	0.070	0.003	3 1/2	1/16	AS 568-043,BS 1806-043,Dowty-200-043
0771838	101.32	0.83	1.78	0.08	3.99	0.033	0.070	0.003	4	1/16	AS 568-045,BS 1806-045,Dowty-200-045
0772263	107.62	0.87	2.62	0.09	4.24	0.034	0.103	0.004	4 1/4	3/32	AS 568-156,BS 1806-156,Dowty-200-156
0771839	114.02	0.91	1.78	0.08	4.49	0.036	0.070	0.003	4 1/2	1/16	AS 568-047,BS 1806-047,Dowty-200-047
0771987	135.89	1.06	5.33	0.13	5.35	0.042	0.210	0.005	5 11/32	7/32	AS 568-356,BS 1806-356,Dowty-200-356
0771980	177.47	1.34	2.62	0.09	6.99	0.053	0.103	0.004	7	3/32	AS 568-167,BS 1806-167,Dowty-201-153
0772265	189.87	1.42	6.99	0.15	7.48	0.056	0.275	0.006	7 15/32	9/32	AS 568-443,BS 1806-443,Dowty-202-510
0771836	209.14	1.55	3.53	0.1	8.23	0.061	0.139	0.004	8 7/32	1/8	AS 568-267,BS 1806-267,Dowty-202-525
0772097	215.27	1.59	5.33	0.13	8.48	0.063	0.210	0.005	8 15/32	7/32	AS 568-371,BS 1806-371,Dowty-202-527