

FEATURES

- Nitrile rubber material
- Hardness 70 shore A
- Continuous operating temperature -40°C to 110°C, short term to 135°C
- Resistant to mineral hydraulic oils and greases
- Tolerance BS4518

RS PRO Nitrile Rubber O-Ring Seal, 1/8in Bore, 1/4in Outer Diameter

RS Stock No.: 689-574



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO imperial O-Rings made from Nitrile, the most widely used elastomer in sealing applications. These O-Rings have an excellent resistance to petroleum products and work well in either low or high temperatures. Nitrile is highly resistant to abrasion and is an ideal choice in most industries

General Specifications

Type	O-Ring Seal
Material	Nitrile Rubber
Application	Automotive; Plumbing; Aerospace; General Engineering
Resistance To	Mineral Hydraulic Oils And Grease
Kit Contents	8 Pieces

Mechanical Specifications

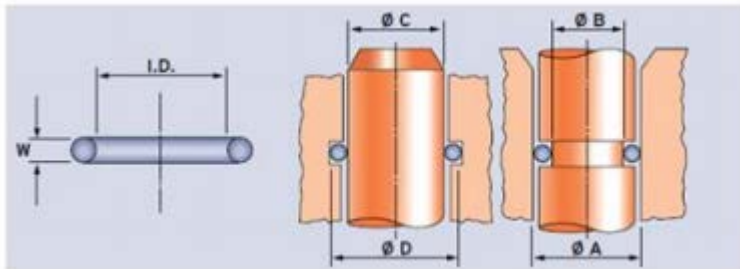
Inside Diameter	1/8in
Outside Diameter	1/4in
Thickness	1/16in
Hardness	70 Shore A
Tensile Strength	14N/mm ²
Elongation At Break Point	250%
Specific Gravity	1.372
Density	1.3g/cm ³
Heat Resistance	Tested To 100°C For 70 Hours
Compression Set 22h/ 100°C	14%
Volume Change	-5.57%

Operation Environment Specifications

Minimum Operating Temperature	-30°C
Maximum Operating Temperature	120°C
Glass Transition Temperature	-35°C

Approvals

Compliance/Certifications	CE / UR / cUR
----------------------------------	---------------



RS Article no.	RS Size Ref.	Nominal Size	Inside Diameter				Cross Section W				Bore Ø A		Piston Groove Ø B		Gland Groove Ø D		Rod Ø C
		C x A x W	INCH	±	mm	±	INCH	±	mm	±	INCH	STAT	DYN	STAT	DYN	INCH	
689574	006	1/8 x 1/4 x 1/16	0.114	0.005	2.90	0.13	0.07	0.003	1.78	0.08	0.250	0.148	0.138	0.227	0.237	0.125	
689580	007	5/32 x 9/32 x 1/16	0.145	0.005	3.68	0.13	0.07	0.003	1.78	0.08	0.281	0.179	0.169	0.258	0.268	0.156	
689596	008	3/16 x 5/16 x 1/16	0.176	0.005	4.47	0.13	0.07	0.003	1.78	0.08	0.312	0.210	0.200	0.289	0.299	0.187	
689603	009	7/32 x 11/32 x 1/16	0.208	0.005	5.28	0.13	0.07	0.003	1.78	0.08	0.344	0.241	0.231	0.321	0.331	0.219	
689619	010	1/4 x 3/8 x 1/16	0.239	0.005	6.07	0.13	0.07	0.003	1.78	0.08	0.375	0.273	0.263	0.352	0.362	0.250	
689625	011	5/16 x 7/16 x 1/16	0.301	0.005	7.65	0.13	0.07	0.003	1.78	0.08	0.437	0.335	0.325	0.414	0.424	0.312	
689631	012	3/8 x 1/2 x 1/16	0.364	0.005	9.25	0.13	0.07	0.003	1.78	0.08	0.500	0.398	0.388	0.477	0.487	0.375	
689647	110	3/8 x 9/16 x 3/32	0.362	0.005	9.19	0.13	0.103	0.003	2.62	0.08	0.562	0.402	0.388	0.535	0.549	0.375	
689653	111	7/16 x 5/8 x 3/32	0.424	0.005	10.77	0.13	0.103	0.003	2.62	0.08	0.625	0.485	0.451	0.597	0.611	0.437	
689669	112	1/2 x 11/16 x 3/32	0.487	0.005	12.37	0.13	0.103	0.003	2.62	0.08	0.687	0.527	0.513	0.680	0.674	0.500	
689675	113	9/16 x 3/4 x 3/32	0.549	0.007	13.94	0.18	0.103	0.003	2.62	0.08	0.750	0.590	0.578	0.722	0.736	0.562	
689681	114	5/8 x 13/16 x 3/32	0.612	0.009	15.54	0.23	0.103	0.003	2.62	0.08	0.812	0.652	0.638	0.785	0.799	0.625	
689697	115	11/16 x 7/8 x 3/32	0.674	0.009	17.12	0.23	0.103	0.003	2.62	0.08	0.875	0.715	0.701	0.848	0.862	0.688	
689704	116	3/4 x 15/16 x 3/32	0.737	0.009	18.72	0.23	0.103	0.003	2.62	0.08	0.937	0.777	0.763	0.910	0.924	0.750	
689710	210	3/4 x 1 x 1/8	0.734	0.010	18.66	0.25	0.139	0.004	3.53	0.10	1.000	0.778	0.762	0.972	0.988	0.750	
689726	211	13/16 x 1 1/16 x 1/8	0.796	0.010	20.22	0.25	0.139	0.004	3.53	0.10	1.062	0.840	0.824	1.034	1.050	0.812	
689732	212	7/8 x 1 1/8 x 1/8	0.859	0.010	21.82	0.25	0.139	0.004	3.53	0.10	1.125	0.903	0.887	1.097	1.113	0.875	
689748	213	15/16 x 1 3/16 x 1/8	0.921	0.010	23.40	0.25	0.139	0.004	3.53	0.10	1.188	0.966	0.950	1.159	1.175	0.937	
689754	214	1 x 1 1/4 x 1/8	0.984	0.010	25.00	0.25	0.139	0.004	3.53	0.10	1.250	1.028	1.012	1.222	1.238	1.000	
689760	215	1 1/16 x 1 5/16 x 1/8	1.046	0.010	26.58	0.25	0.139	0.004	3.53	0.10	1.312	1.090	1.074	1.284	1.300	1.062	
689776	216	1 1/8 x 1 3/8 x 1/8	1.109	0.012	28.17	0.30	0.139	0.004	3.53	0.10	1.375	1.153	1.137	1.347	1.363	1.125	
689782	217	1 5/16 x 1 7/16 x 1/8	1.171	0.012	29.75	0.30	0.139	0.004	3.53	0.10	1.437	1.215	1.199	1.410	1.426	1.188	
689798	218	1 1/4 x 1 1/2 x 1/8	1.234	0.012	31.35	0.30	0.139	0.004	3.53	0.10	1.500	1.278	1.262	1.472	1.488	1.250	
689805	219	1 5/16 x 1 9/16 x 1/8	1.296	0.012	32.92	0.30	0.139	0.004	3.53	0.10	1.562	1.340	1.324	1.534	1.550	1.312	
689811	220	1 3/8 x 1 5/8 x 1/8	1.359	0.012	34.52	0.30	0.139	0.004	3.53	0.10	1.625	1.403	1.387	1.597	1.613	1.375	
689827	221	1 7/16 x 1 11/16 x 1/8	1.421	0.012	36.09	0.30	0.139	0.004	3.53	0.10	1.688	1.466	1.450	1.659	1.675	1.437	
689833	222	1 1/2 x 1 3/4 x 1/8	1.484	0.015	37.70	0.38	0.139	0.004	3.53	0.10	1.750	1.528	1.512	1.722	1.738	1.500	