

ORFS (O-Ring Face Seal) Thread Size Chart

SAE J1453 – O-Ring Face Seal (ORFS) Hydraulic Fittings Standard

SAE J1453 specifies straight thread (UN/UNF) hydraulic fittings that seal by means of an elastomeric O-ring located in the face of the male connector. The seal is achieved by compressing the O-ring against the flat face of the mating female fitting. ORFS fittings are widely used in high-pressure hydraulic systems because they provide excellent leak prevention and strong vibration resistance.

Dash Size	Nominal Tube OD (in)	Thread Size (UN/UNF)	Major Diameter (in)	TPI
-04	1/4"	9/16-18 UNF	0.5625	18
-06	3/8"	11/16-16 UNF	0.6875	16
-08	1/2"	13/16-16 UNF	0.8125	16
-10	5/8"	1-14 UNS	1.0000	14
-12	3/4"	1-3/16-12 UN	1.1875	12
-16	1"	1-7/16-12 UN	1.4375	12
-20	1-1/4"	1-11/16-12 UN	1.6875	12
-24	1-1/2"	2-12 UN	2.0000	12
-32	2"	2-1/2-12 UN	2.5000	12