

Thread Identification Guide

Code 62 Flange & JIC



Technical Information

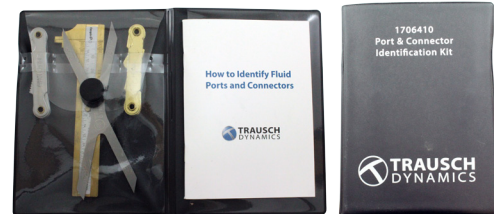
Adapter Sizing Chart

NPTF, BSPT and BSPP measure 1/4" larger than their actual size. For example, a 1/4" NPTF, BSPT or BSPP will actually measure 1/2" on the O. D. of the threads. JIC, SAE O-ring & Flat Face threads measure as listed below. The first number listed is the size of thread, the second number is the threads per inch.

Size	NPTF (Pipe)	JIC (37°)	SAE (O-Ring)	Face Seal (Flat Face)	BSPP (Parallel)	BSPT (Tapered)
-2	1/8 - 27	5/16 - 24	5/16 - 24	-	1/8 - 28	1/8 - 28
-3	-	3/8 - 24	3/8 - 24	-	-	-
-4	1/4 - 18	7/16 - 20	7/16 - 20	9/16 - 18	1/4 - 19	1/4 - 19
-5	-	1/2 - 20	1/2 - 20	-	-	-
-6	3/8 - 18	9/16 - 18	9/16 - 18	11/16 - 16	3/8 - 19	3/8 - 19
-8	1/2 - 14	3/4 - 16	3/4 - 16	13/16 - 16	1/2 - 14	1/2 - 14
-10	-	7/8 - 14	7/8 - 14	1 - 14	-	-
-12	3/4 - 14	1-1/16 - 12	1-1/16 - 12	1 3/16 - 12	3/4 - 14	3/4 - 14
-14	-	1-3/16 - 12	1-3/16 - 12	1 5/16 - 12	-	-
-16	1 - 11-1/2	1-5/16 - 12	1-5/16 - 12	1 7/16 - 12	1 - 11	1 - 11
-20	1-1/4 - 11-1/2	1-5/8 - 12	1-5/8 - 12	1 11/16 - 12	1-1/4 - 11	1-1/4 - 11
-24	1-1/2 - 11-1/2	1-7/8 - 12	1-7/8 - 12	2 - 12	1-1/2 - 11	1-1/2 - 11
-32	2 - 11-1/2	2-1/2 - 12	2-1/2 - 12	2 1/2 - 12	2 - 11	2 - 11

Thread Sizing Kit

Allows the user to properly identify threads of all hydraulic types. This handy kit includes a fractional thread pitch gauge, a metric thread pitch gauge, inside & outside caliper (inches and millimeters), a seat angle gauge (24 degree/30 degree/37 degree/45 degree), 27-page fluid ports & connections identification guid. A carrying case is standard for easy and convenient storage.

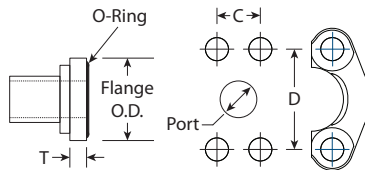


Stock Number	Ship Wt.
1706410	1

Code 62 4-Bolt Flange (SAE J518*)

This connection is commonly used in fluid power systems. The Code 62 is referred to as the "6000 PSI" series of flanges. The female (port) is an unthreaded hole with four bolt holes in a rectangular pattern around the port. The male consists of a flanged head, grooved for an o-ring, and either a captive flange or split flange halves with bolt holes to match the port. The seal takes place on the o-ring. The o-ring is compressed between the flange head and the flat surface surrounding the port. The threaded bolts hold the connection together.

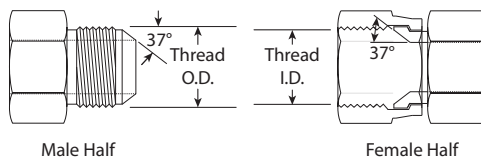
*SAE J518 is interchangeable with ISO 6162, JIS B 8363, and DIN 20066 except for the bolt sizes.



Port/ Inch Size	Dash Size	C	D	Flange O.D.	T	Bolt Thread	O-Ring
1/2	08	0.718	1.594	1.250	0.345	5/16 - 18	210N90
3/4	12	0.937	2.000	1.620	0.345	3/8 - 16	214N90
1	16	1.093	2.250	1.880	0.375	7/16 - 14	219N90
1 1/4	20	1.250	2.625	2.120	0.405	1/2 - 13	222N90
1 1/2	24	1.437	3.125	2.500	0.495	5/8 - 11	225N90
2	32	1.750	3.812	3.120	0.495	3/4 - 10	228N90

JIC 37° Flare (SAE J514)

The 37° JIC (Joint Industrial Council) is a reliable, straight thread, single-flare design that is used across the world. It is very popular in many applications and environments because it's compact and easy to assemble. It also features high holding power with low torque requirements. The 37° JIC connection consists of three pieces: the nut, the sleeve, and the fitting in a range of sizes from 1/8" up to 2". The sleeve not only absorbs vibration, but acts as a support to the flare during assembly and helps reduce the risk of twisting the tube. Since the 37° JIC is a metal-to-metal seal, it can be connected and reconnected multiple times.



Inch Size	Dash Size	Nominal Thread Size	Male Thread O.D.	Female Thread I.D.
1/8	02	5/16 - 24	5/16 (.31)	9/32 (.27)
3/16	03	3/8 - 24	3/8 (.38)	11/32 (.34)
1/4	04	7/16 - 20	7/16 (.44)	13/32 (.39)
5/16	05	1/2 - 20	1/2 (.50)	15/32 (.45)
3/8	06	9/16 - 18	9/16 (.56)	17/32 (.51)
1/2	08	3/4 - 16	3/4 (.75)	11/16 (.69)
5/8	10	7/8 - 14	7/8 (.88)	13/16 (.81)
3/4	12	1 1/16 - 12	1 1/16 (1.06)	1 (.98)
7/8	14	1 3/16 - 12	1 3/16 (1.19)	1 1/8 (1.10)
1	16	1 5/16 - 12	1 5/16 (1.31)	1 1/4 (1.23)
1 1/4	20	1 5/8 - 12	1 5/8 (1.63)	1 9/16 (1.54)
1 1/2	24	1 7/8 - 12	1 7/8 (1.88)	1 13/16 (1.79)
2	32	2-1/2 - 12	2-1/2 (2.50)	2 7/16 (2.42)

