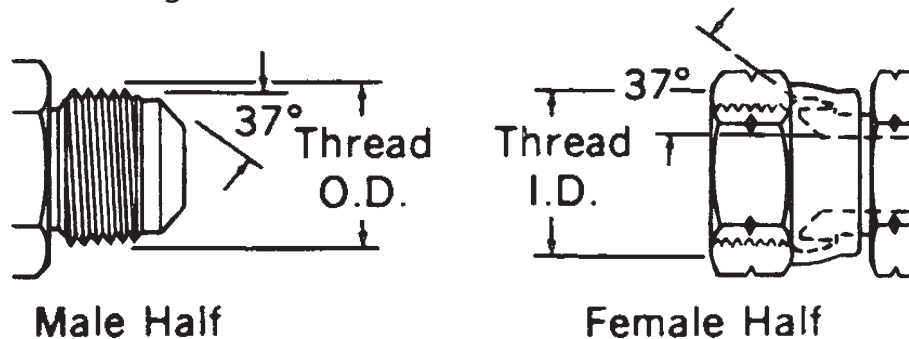




SAE Hydraulic

This connection is very common in fluid power systems. Both the male and female halves of the connections have 37° seats. The seal takes place by establishing a line of contact between the male flare and the female cone seat. The threads hold the connection mechanically.

Caution: In the -02, -03, -04, -05, -08 and -10 sizes, the threads of the SAE 37° flare and SAE 45° flare are the same. However, the sealing surface angles are not the same.



Inch Size	Dash Size	Nominal Thread Size	Male Thread O.D. (in)	Female Thread I.D. (in)
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 13/16-12	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)