

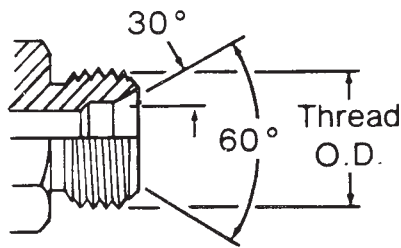


NPSM

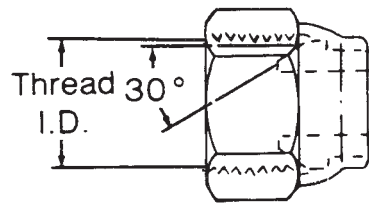
(National Pipe Straight Mechanical)

This connection is sometimes used in fluid power systems. The female half has a straight thread and an inverted 30° seat. The male half of the connection has a straight thread and a 30° internal chamfer. The seal takes place by compression of the 30° seat on the chamfer. The threads hold the connection mechanically.

Note: A properly chamfered NPTF male will also seal with the NPSM female.



Male Half



Female Half

Inch Size	Dash Size	Nominal Thread Size	Male Thread O.D. (in)	Female Thread I.D. (in)
1/8	02	1/8-27	13/32 (.41)	3/8 (.38)
1/4	04	1/4-18	17/32 (.54)	1/2 (.49)
3/8	06	3/8-18	11/16 (.68)	5/8 (.63)
1/2	08	1/2-14	27/32 (.84)	25/32 (.77)
3/4	12	3/4-14	1 1/16 (1.05)	1 (.98)
1	16	1-11 1/2	1 5/16 (1.32)	1 1/4 (1.24)
1 1/4	20	1 1/4-11 1/2	1 21/32 (1.66)	1 19/32 (1.58)
1 1/2	24	1 1/2-11 1/2	1 29/32 (1.90)	1 13/16 (1.82)
2	32	2-11 1/2	2 3/8 (2.38)	2 5/16 (2.30)