

British Standard Pipe Tapered (BSPT)

British Standard Pipe Tapered (BSPT) Connection Types / Identification

BSPT connections, just as NPT connections, seal by thread interference. BSPT connections are the same as JIS Tapered Pipe, Whitworth Tapered Pipe (inch threads), and ISO Tapered Pipe Thread. For hydraulic applications, they are most commonly found on Japanese Equipment, therefore usually being JIS Tapered Pipe Thread.

Most of our Male BSPT connections are offered with a 30° chamfered seat, giving them the ability to seal against a BSPP 30° Cone Female Swivel, as well as by thread interference in a female tapered port (figure below).

Measurement Procedure

1. With calipers, measure the O.D. (outside diameter) of the Male threads or the I.D. (inside diameter) of the Female Threads over the **THIRD ROW** of threads from the end of the fitting. (Note: Because the threads are tapered, a different O.D. will be identified depending on where you place the calipers; this is why the 3rd row of threads is used as a standard.
2. Check the thread pitch with the thread pitch gauge.
3. Compare measurements against chart.

Dash Size	Nominal Size	Thread Pitch	Male Thread O.D. (inches)		Female Thread I.D. (inches)	
2	1/8	28	.375	3/8	.344	11/32
4	1/4	19	.531	17/32	.469	7/16
6	3/8	19	.656	21/32	.594	19/32
8	1/2	14	.813	13/16	.750	3/4
12	3/4	14	1.031	1-1/32	.969	15/16
16	1	11	1.344	1-15/16	1.219	1-13/16
20	1-1/4	11	1.656	1-21/32	1.531	1-17/32
24	1-1/2	11	1.875	1-7/8	1.781	1-25/32
32	2	11	2.334	2-11/32	2.219	2-7/32
40	2-1/2	11	2.959		2.844	
48	3	11	3.459		3.344	
64	4	11	4.449		4.333	
80	5	11	5.449		5.333	
96	6	11	6.449		6.334	

