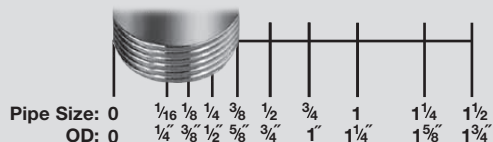



How to Measure Pipe Size for NPT or BSP Threads—Example shows pipe size 3/8.

Pipe size is not an actual measured size, but rather an industry designation. Align your pipe or fitting with the “0” line as shown. The line on the opposite edge gives the pipe size. You can also measure the OD of male threads or the ID of female threads, then find the corresponding pipe size in the chart. If your measurement doesn't match an OD or ID listed, round to the nearest 1/8”.



 To measure larger pipe sizes, go to mcmaster.com and search for **4464KAC**. For information about fittings and pipe, see pages 2-3.

Extreme-Pressure Stainless Steel Threaded Pipe Fittings (Continued)

With the strength to handle extreme pressures, these fittings can be used to connect equipment in hydraulic fluid lines. Fittings are 316 stainless steel and have excellent corrosion resistance. **NPTF** (Dryseal) threads are compatible with NPT threads.

Metric Plugs with Hex Drive



- Use with hydraulic fluid, oil, and water
 - Maximum Pressure: 5,800 psi @ 72°F
- Plugs have a fluoroelastomer gasket to prevent leaks. They are solid and meet DIN 7631 and ISO 9974.

Thread Size	Drive Size, mm			Thread Size	Drive Size, mm		
M10 x 1	14	4822T276	\$20.44	M20 x 1.5	26	4822T282	\$31.04
M12 x 1.5	17	4822T277	21.75	M22 x 1.5	27	4822T283	37.42
M14 x 1.5	19	4822T278	23.10	M26 x 1.5	32	4822T284	49.90
M16 x 1.5	22	4822T279	27.08	M27 x 2	32	4822T285	53.56
M18 x 1.5	24	4822T281	28.87	M33 x 2	40	4822T286	80.48

Thread Adapters, Female



- Use with hydraulic fluid, oil, and water
- Maximum Pressure: 15,000 psi @ 72°F

UN/UNF (SAE) threads are also known as O-ring boss threads.

NPT x UN/UNF (SAE)							
Pipe Size	Thread Size			Pipe Size	Thread Size		
1/4	9/16"-18	51205K721	\$54.55	3/8	1 1/8"-12	51205K725	\$95.05
1/4	3/4"-16	51205K726	67.71	1/2	9/16"-18	51205K723	69.33
1/4	1 1/8"-12	51205K729	87.00	1/2	3/4"-16	51205K724	76.43
3/8	9/16"-18	51205K722	65.86	1/2	1 1/8"-12	51205K731	95.71
3/8	3/4"-16	51205K727	74.48				

Thread Adapters, Male



- Use with hydraulic fluid (petroleum base), oil, and water (unless noted)
- Maximum Pressure: See table

BSPP and **metric** threads have a Buna-N gasket and 316 stainless steel washer to prevent leaks. For replacement washers see page 31. **UN/UNF (SAE)** threads have a Buna-N gasket to prevent leaks, unless noted. Also known as O-ring boss threads.

NPT x BSPT							
Pipe Size	Max. psi @ 72°F			Pipe Size	Max. psi @ 72°F		
1/4	6,000	4822T234	\$27.35	3/4	3,500	4822T237	\$57.83
3/8	5,500	4822T235	25.62	1	3,000	4822T238	77.92
1/2	4,500	4822T236	30.27				

NPT x BSPP							
Pipe Size	Max. psi @ 72°F			Pipe Size	Max. psi @ 72°F		
1/8	6,000	4822T21	\$25.86	1	3,500	4822T66	\$67.71
1/4	6,000	4822T22	23.47	1 1/4	2,500	4822T225	115.75
3/8	6,000	4822T23	26.79	1 1/2	2,000	4822T229	168.12
1/2	5,000	4822T24	34.19	2	2,000	4822T233	229.47
3/4	4,500	4822T65	47.71				

NPTF x UN/UNF (SAE)								
Pipe Size	Thread Size	Max. psi @ 72°F			Pipe Size	Thread Size	Max. psi @ 72°F	
1/8	7/16"-20	6,000	51205K521 ♣	\$29.57	1/2	7/8"-14	5,400	51205K523 ♣
1/4	1/2"-20	6,000	51205K522 ♣	30.75	3/4	1 1/16"-12	6,000	51205K262 ♦
1/4	9/16"-18	6,000	51205K256 ♦	68.12	3/4	1 5/16"-12	3,600	51205K524 ♣
3/8	9/16"-18	6,000	51205K257 ♦	42.87	1	1 5/16"-12	5,400	51205K263 ♦
3/8	3/4"-16	6,000	51205K258 ♦	97.87	1 1/4	1 5/8"-12	3,000	51205K525 ♣
1/2	3/4"-16	6,000	51205K259 ♦	43.23	1 1/4	1 7/8"-12	2,400	51205K526 ♣
								\$36.62
								105.33
								49.49
								90.27
								166.43
								177.98

♣ Also for use with steam. Rated for steam @ 200°F. ♦ Gasket is fluoroelastomer.

BSPP x BSPT							
Pipe Size	Max. psi @ 72°F			Pipe Size	Max. psi @ 72°F		
1/8	2,900	4822T125	\$25.71	1	2,900	4822T151	\$77.67
1/4	2,900	4822T128	32.33	1 1/4	2,300	4822T155	115.75
3/8	2,900	4822T134	34.42	1 1/2	1,800	4822T159	137.96
1/2	2,900	4822T139	47.38	2	1,200	4822T163	218.00
3/4	2,900	4822T146	58.88				

(Continued on following page)