
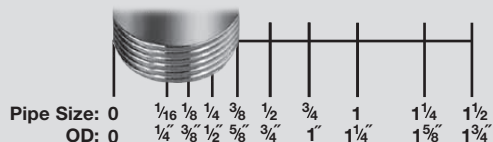



Stainless Steel Pipe Fittings

For technical drawings and 3-D models, go to mcmaster.com. 

How to Measure Pipe Size for NPT or BSP Threads—Example shows pipe size $\frac{3}{8}$.

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 $\frac{1}{8}$ ".



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

Precision Extreme-Pressure Stainless Steel Threaded Pipe Fittings

- Use with hydraulic fluid, liquid nitrogen, natural gas, steam, and water (unless noted)
- Maximum Pressure: See table; rated for steam @ 300° F (unless noted)

Made to tighter tolerances than other stainless steel pipe fittings, these are also known as instrumentation fittings. The male threads are rolled for extra strength in extreme-pressure applications. Fittings are commonly used to connect equipment in gas lines. They are 316 stainless steel for excellent corrosion resistance. Meet ANSI/ASME B1.20.1, ANSI/ASME B31.1, and ANSI/ASME B31.3.

NPT Connectors, Adapters, Caps, and Plugs

Female x male 90° elbows are also known as street elbows. **Inline tees** are also known as branch tees. **Right-angle tees** are also known as run tees. **Plugs with external hex drive** are solid, unless noted. **Plugs with hex drive** are hollow.



Pipe Size	90° Elbows, Female			90° Elbows, Male			90° Elbows, Female x Male			45° Elbows, Female x Male		
	Max. psi @ 72° F			Max. psi @ 72° F			Max. psi @ 72° F			Max. psi @ 72° F		
1/16	7,000	48805K121	\$39.16				7,000	48805K122	\$44.49			
1/8	5,500	48805K92	24.37	9,100	48805K96	\$20.18	5,500	48805K18	24.55	5,500	48805K182	\$35.46
1/4	5,600	48805K351	27.82	7,500	48805K41	21.45	5,600	48805K172	27.09	5,600	48805K183	42.90
3/8	5,000	48805K37	39.09	7,200	48805K431	31.09	5,000	48805K19	38.91	5,000	48805K184	77.82
1/2	4,500	48805K391	63.64	5,800	48805K451	50.91	4,500	48805K211	65.27	4,500	48805K185	108.91
3/4	4,600	48805K713	60.54				4,600	48805K797	60.96			
1	4,400	48805K716	82.24				4,400	48805K813	96.54			



Pipe Size	Tees, Female			Tees, Male			Inline Tees, Female x Male x Female			Right-Angle Tees, Female x Female x Male		
	Max. psi @ 72°F			Max. psi @ 72°F			Max. psi @ 72°F			Max. psi @ 72°F		
1/16	7,000	48805K171	\$51.83	10,000	48805K123	\$79.85	7,000	48805K191	\$60.83	7,000	48805K145	\$60.67
1/8	5,500	48805K97	31.81	9,700	48805K124	26.18	5,500	48805K192	36.18	5,500	48805K98	35.09
1/4	5,600	48805K471	34.73	8,000	48805K125	39.83	5,600	48805K193	37.99	5,600	48805K571	36.36
3/8	5,000	48805K49	65.27	7,600	48805K127	54.55	5,000	48805K194	69.64	5,000	48805K59	66.91
1/2	4,500	48805K511	84.00	6,200	48805K129	77.09	4,500	48805K195	90.36	4,500	48805K611	88.91
3/4	7,300	48805K737	76.97									
1	5,300	48805K74	111.77									



Pipe Size	Crosses			Caps			Plugs with External Hex Drive			Plugs with Hex Drive			
	Max. psi @ 72°F			Max. psi @ 72°F			Max. psi @ 72°F			Max. psi @ 72°F	Drive Size		
1/16	7,000	48805K147	\$80.33	7,500	48805K148	\$22.66	10,000	48805K149 ★	\$5.63	10,000	5/32"	48805K221	\$19.66
1/8	5,500	48805K62	46.00	6,400	48805K93	7.63	9,700	48805K94	6.37	9,100	3/16"	48805K222	9.46
1/4	5,600	48805K631	60.00	6,600	48805K22	11.27	8,000	48805K28	7.27	7,500	1/4"	48805K223	11.09
3/8	5,000	48805K65	86.55	5,300	48805K24	13.27	7,600	48805K32	9.82	7,200	5/16"	48805K224	19.27
1/2	4,500	48805K671	106.73	5,200	48805K26	20.00	7,000	48805K341 ★	13.64				
3/4	4,600	48805K743	131.85	4,600	48805K725	19.07	7,300	48805K731	12.43				
1	4,400	48805K746	208.40	4,400	48805K728	25.34	5,300	48805K734	20.82				

★ Plug is hollow.



Pipe Size	Straights, Female			Straights, Female x Male			Straights, Male		
	Max. psi @ 72° F			Max. psi @ 72° F			Max. psi @ 72° F		
1/16	7,500	48805K151	\$35.50				10,000	48805K161	\$34.00
1/8	6,400	48805K72	11.64	6,400	48805K128	\$9.63	9,100	48805K12	6.72
1/4	6,600	48805K69	14.91	6,600	48805K36	13.09	7,500	48805K11	8.37
3/8	5,300	48805K73	20.55	5,300	48805K42	17.64	7,200	48805K146	10.00
1/2	5,200	48805K79	29.64	5,200	48805K48	26.55	6,600	48805K152	14.91
3/4	4,600	48805K719	23.14	4,600	48805K855	20.57			
1	4,400	48805K722	37.76	4,400	48805K867	55.22			

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