
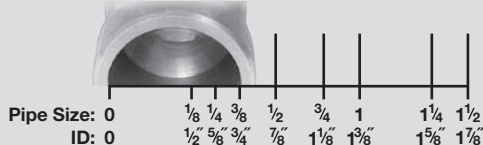
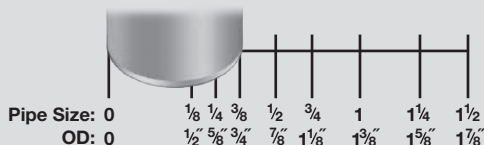



Stainless Steel Pipe Fittings

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

How to Measure Pipe Size for Unthreaded Pipe and Fittings—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 your pipe and butt-weld fitting or the ID of your socket-connect fitting, 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 **4347KAC**. For information about fittings and pipe, see pages 2-3.

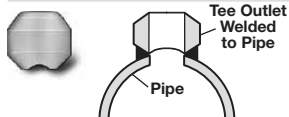
Thick-Wall Butt-Weld Stainless Steel Unthreaded Pipe Fittings (Continued)

- Use with air, natural gas, oil, steam, water
- Pipe: Use unthreaded Schedule 80 thick-wall stainless steel (see page 41)

With a thicker wall than our standard-wall butt-weld pipe fittings, these offer high strength while providing a smooth connection for maximum flow. They have beveled ends that, when flush to pipe, create a trough for a leak-resistant, permanent weld.

304 stainless steel fittings have very good corrosion resistance. **316 stainless steel** fittings have excellent corrosion resistance.

Tee Outlets



- Maximum Pressure: See table; 600 psi @ 220° F for steam

Tee outlets allow you to create a tap anywhere along a pipe. They are also known as branch connectors and are comparable to Weldolet. To install, drill a hole in your pipe to match the fitting's pipe size and weld in place. Outlets meet ANSI/ASME B16.11 and MSS SP-97.

To Order: Please specify For Pipe Size within the range shown.

Pipe Size	For Pipe Size	Ht.	Max. psi @ 72° F	304/304L Stainless Steel	316/316L Stainless Steel
1/4	1/4 to 36	5/8"	3,000	4565T11	\$25.78 4583T29
3/8	3/8 to 36	3/4"	3,000	4565T12	26.36 4583T31
1/2	1/2 to 36	3/4"	3,000	4565T13	26.95 4583T32
3/4	3/4 to 36	7/8"	3,000	4565T14	32.02 4583T33
1	1 to 36	1 1/16"	3,000	4565T15	41.35 4583T34
1 1/4	1 1/4 to 36	1 1/4"	3,000	4565T16	65.44 4583T35
1 1/2	1 1/2 to 36	1 5/16"	2,800	4565T17	75.21 4583T36
2	2 to 36	1 1/2"	2,500	4565T18	99.02 4583T37

High-Pressure Socket-Connect Stainless Steel Unthreaded Pipe Fittings

- Use with air, hydraulic fluid, natural gas, oil, steam, water, except tee outlets are not for use with hydraulic fluid
- Pipe: Use unthreaded Schedule 80 thick-wall stainless steel (see page 41)

Forged for excellent strength, these heavy duty socket-connect fittings stand up to high-pressure applications. Also known as Class 3000 fittings, except tee outlets. Fittings are easier to weld than butt-weld fittings because the fitting doesn't need to align perfectly to the pipe. Slide pipe into the socket and weld for a strong, permanent connection.

304 stainless steel fittings have very good corrosion resistance. **316 stainless steel** fittings have excellent corrosion resistance.

Connectors

- Maximum Pressure (unless noted): 304/304L SS: 2,500 psi @ 72° F; 1,900 psi @ 350° F for steam 316/316L SS: 3,000 psi @ 72° F; 1,900 psi @ 350° F for steam

Connectors meet ANSI/ASME B16.11 and ASTM A182, except unions only meet ASTM A182.

Unions separate into three pieces for access to your line.

Pipe Size	90° Elbows	45° Elbows	Tees	Crosses	Straights	Unions ★
304/304L Stainless Steel						
1/8	44965K411 \$8.48	44965K421 \$12.34	44965K431 \$11.38	44965K441 \$26.46	44965K451 \$7.73	44965K471 \$40.28
1/4	44965K412 8.69	44965K422 12.04	44965K432 11.66	44965K442 20.01	44965K452 8.57	44965K472 40.28
3/8	44965K413 11.30	44965K423 12.19	44965K433 13.92	44965K443 24.64	44965K453 8.40	44965K473 43.08
1/2	44965K414 12.41	44965K424 12.34	44965K434 19.18	44965K444 26.14	44965K454 9.64	44965K474 44.15
3/4	44965K415 15.63	44965K425 14.26	44965K435 21.73	44965K445 33.13	44965K455 12.17	44965K475 56.43
1	44965K416 23.58	44965K426 20.64	44965K436 29.22	44965K446 55.19	44965K456 18.18	44965K476 85.10
1 1/2	44965K418 52.73	44965K428 40.56	44965K438 62.08	44965K448 73.02	44965K458 41.52	44965K478 141.60
2	44965K419 75.66	44965K429 65.51	44965K439 81.88	44965K449 223.67	44965K459 61.86	44965K479 176.88
3	44965K42 189.58	44965K43 202.21	44965K45 223.27		44965K46 185.92	44965K48 461.29
316/316L Stainless Steel						
1/8	45515K111 11.41	45515K131 14.64	45515K151 14.87	45515K171 45.12	45515K191 9.90	45515K241 43.68
1/4	45515K112 11.69	45515K132 14.64	45515K152 11.98	45515K172 28.95	45515K192 10.44	45515K242 45.39
3/8	45515K113 13.66	45515K133 14.64	45515K153 14.58	45515K173 33.10	45515K193 12.34	45515K243 52.57
1/2	45515K114 17.90	45515K134 14.64	45515K154 19.77	45515K174 43.89	45515K194 11.84	45515K244 52.65
3/4	45515K115 18.96	45515K135 19.82	45515K155 30.35	45515K175 57.59	45515K195 15.44	45515K245 68.65
1	45515K116 35.02	45515K136 24.93	45515K156 37.34	45515K176 76.98	45515K196 21.96	45515K246 104.21
1 1/2	45515K118 71.77	45515K138 56.98	45515K158 62.69	45515K178 127.08	45515K198 61.22	45515K248 189.35
2	45515K119 120.61	45515K139 75.55	45515K159 150.20	45515K179 311.59	45515K199 83.58	45515K249 216.67
3	45515K12 230.96	45515K14 212.45	45515K16 256.47		45515K201 211.93	45515K25 532.00

★ Maximum pressure is 2,900 psi @ 72° F.

(Continued on following page)