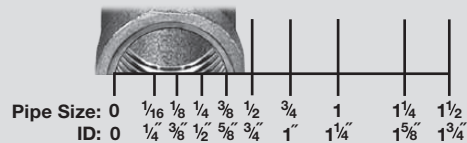
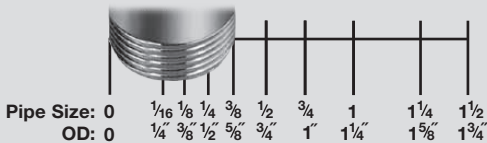


Stainless Steel Pipe Fittings

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

How to Measure Pipe Size for NPT 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.

High-Pressure Stainless Steel Threaded Pipe Fittings

- Pipe Nipples and Pipe: Use threaded Schedule 80 thick-wall stainless steel (see pages 22-23)

Use these heavy duty fittings in high-pressure flow applications. Fittings are forged and Class 3000, unless otherwise stated.

304 stainless steel fittings have very good corrosion resistance. **316 stainless steel** fittings have excellent corrosion resistance. **347 stainless steel** fittings have excellent corrosion resistance and can withstand prolonged heat exposure.

NPT Connectors, Adapters, Caps, and Plugs

- Use with air, hydraulic fluid, natural gas, oil, steam, water
- Maximum Pressure (unless noted):
304 SS: 2,500 psi @ 72°F;
1,900 psi @ 350°F for steam
316 SS: 3,000 psi @ 72°F;
2,800 psi @ 350°F for steam

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

Unions separate into three pieces so you can access your line without unthreading pipe connections.

Female x butt weld straights are also known as half couplings.

Female x male 90° elbows are also known as street elbows.

Plugs are solid.



Pipe Size	90° Elbows	90° Elbows, Female x Male	45° Elbows	Tees	Crosses	Unions*
304 Stainless Steel						
1/8	45525K511 \$13.54	45525K531 \$14.62	45525K521 \$22.10	45525K541 \$12.13	45525K551 \$12.10	45525K591 \$37.63
1/4	45525K512 13.54	45525K532 17.26	45525K522 19.89	45525K542 18.56	45525K552 25.62	45525K592 39.62
3/8	45525K513 19.15	45525K533 17.26	45525K523 19.89	45525K543 24.39	45525K553 28.16	45525K593 40.25
1/2	45525K514 20.39	45525K534 21.31	45525K524 19.89	45525K544 27.63	45525K554 33.44	45525K594 41.29
3/4	45525K515 29.47	45525K535 25.71	45525K525 27.11	45525K545 36.50	45525K555 57.25	45525K595 49.32
1	45525K516 45.12	45525K536 47.68	45525K526 37.38	45525K546 46.57	45525K556 77.50	45525K596 70.73
1 1/4	45525K517 53.68	45525K113 84.98	45525K527 55.06	45525K547 70.95	45525K557 150.70	45525K597 106.06
1 1/2	45525K518 78.36	45525K114 101.68	45525K528 73.12	45525K548 94.16	45525K558 123.38	45525K598 120.39
2	45525K519 107.95		45525K529 83.14	45525K549 109.45	45525K559 231.29	45525K599 143.46
316 Stainless Steel						
1/8	4443K611 16.82	4443K631 22.15	4443K621 30.40	4443K641 18.70	4443K651 19.40	4443K691 41.58
1/4	4443K612 18.50	4443K632 22.17	4443K622 23.66	4443K642 19.95	4443K652 38.87	4443K692 44.32
3/8	4443K613 18.70	4443K633 28.49	4443K623 23.40	4443K643 25.52	4443K653 38.40	4443K693 48.75
1/2	4443K614 23.81	4443K634 37.38	4443K624 24.87	4443K644 30.56	4443K654 54.35	4443K694 48.86
3/4	4443K615 35.50	4443K635 41.53	4443K625 32.08	4443K645 47.10	4443K655 70.98	4443K695 63.70
1	4443K616 74.95	4443K636 66.73	4443K626 51.30	4443K646 66.06	4443K656 94.92	4443K696 91.08
1 1/4	4443K617 88.18	4443K113 126.92	4443K627 55.35	4443K647 88.16	4443K657 143.64	4443K697 122.85
1 1/2	4443K618 145.99		4443K628 89.42	4443K648 150.90	4443K658 143.61	4443K698 152.93
2	4443K619 252.34		4443K629 147.24	4443K649 226.06	4443K659 271.42	4443K699 200.10

* Maximum pressure is 2,900 psi @ 72°F; 2,000 psi @ 350°F for steam.



Pipe Size	Straights	Straights, Female x Butt Weld	Caps	Plugs with External Hex Drive	Plugs with External Square Drive
304 Stainless Steel					
1/8	45525K561 \$4.95	45525K571 \$4.19	45525K581 \$5.87	4464K331 \$3.00	4464K321 \$3.82
1/4	45525K562 5.42	45525K572 4.29	45525K582 6.02	4464K332 3.06	4464K322 4.16
3/8	45525K563 5.95	45525K573 5.11	45525K583 6.24	4464K333 3.82	4464K323 5.48
1/2	45525K564 7.61	45525K574 6.01	45525K584 8.12	4464K334 5.08	4464K324 6.54
3/4	45525K565 10.11	45525K575 8.20	45525K585 10.14	4464K335 7.16	4464K325 8.82
1	45525K566 17.16	45525K576 13.79	45525K586 19.07	4464K336 11.97	4464K326 13.57
1 1/4	45525K567 38.67	45525K577 22.17	45525K587 27.62	4464K337 24.08	4464K327 30.81
1 1/2	45525K568 44.99	45525K578 29.17	45525K588 34.69	4464K338 30.03	4464K328 33.47
2	45525K569 64.16	45525K579 41.18	45525K589 47.07	4464K339 46.62	4464K329 38.94
2 1/2	45525K161 134.76	45525K171 92.86	45525K181 95.17	4464K184 77.87	4464K181 72.20
3	45525K162 190.67	45525K172 131.37	45525K182 141.23	4464K185 107.94	4464K182 106.93
316 Stainless Steel					
1/8	4443K661 5.40	4443K671 4.65	4443K681 7.91	4443K721 3.49	4443K711 3.96
1/4	4443K662 6.12	4443K672 4.88	4443K682 8.00	4443K722 3.57	4443K712 4.01
3/8	4443K663 6.57	4443K673 6.00	4443K683 8.51	4443K723 6.24	4443K713 5.82
1/2	4443K664 9.12	4443K674 7.11	4443K684 11.57	4443K724 6.39	4443K714 7.11
3/4	4443K665 13.40	4443K675 10.70	4443K685 15.03	4443K725 8.54	4443K715 9.86
1	4443K666 22.47	4443K676 16.91	4443K686 23.06	4443K726 13.99	4443K716 14.74
1 1/4	4443K667 46.80	4443K677 32.13	4443K687 34.52	4443K727 32.03	4443K717 35.56
1 1/2	4443K668 58.96	4443K678 42.86	4443K688 44.77	4443K728 39.66	4443K718 38.59
2	4443K669 72.75	4443K679 55.42	4443K689 70.00	4443K729 52.83	4443K719 50.22
2 1/2	4443K161 174.36	4443K171 116.15	4443K181 144.24	4443K221 91.55	4443K211 78.93
3	4443K162 240.19	4443K172 157.21	4443K182 175.52	4443K222 164.29	4443K212 156.16

(Continued on following page)