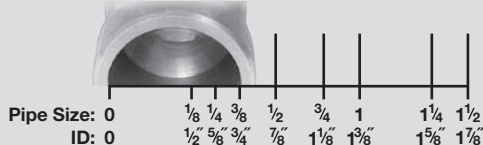
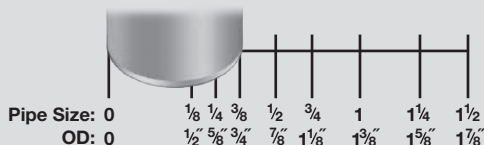



How to Measure Pipe Size for Unthreaded Pipe and Fittings—Example shows pipe size 3/8.

Pipe size is not an actual measured size, but rather an industry designation. Align your pipe or fitting with the “0” line. 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 and slip-on weld flange, 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.

Standard-Wall Butt-Weld Stainless Steel Unthreaded Pipe Fittings

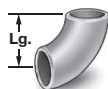
- Use with air, natural gas, oil, water
- Pipe Nipples and Pipe: Use unthreaded Schedule 40 standard-wall stainless steel (see page 39)
- Flanges: Use unthreaded Class 150 low-pressure stainless steel (see pages 37-38)

Also known as Schedule 40 fittings, these have thicker walls than our thin-wall stainless steel unthreaded butt-weld fittings. They have beveled ends that, when flush to pipe, create a trough for a strong weld that permits maximum flow. Fittings meet ANSI/ASME B16.9, ASTM A403/A403M, and MSS SP-43.

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

Stub ends are used with flanges. Slide a flange onto the stub end and weld the stub end to pipe (not the flange). Since the flange isn’t welded to the pipe, it can be disconnected easily, which creates an access point for frequent cleaning and inspecting.

Connectors



Pipe Size	Wall Thick.	Long 90° Elbows	Short 90° Elbows	45° Elbows	Tees
		Lg.	Lg.		
304/304L Stainless Steel					
1/2	0.109"	1 1/2" 45605K511 \$5.95	—	45605K551 \$8.21	45605K621 \$19.71
3/4	0.113"	1 1/2" 45605K512 6.07	—	45605K552 8.29	45605K622 19.89
1	0.133"	1 1/2" 45605K513 6.91	1" 45605K211 \$31.39	45605K553 8.37	45605K623 20.09
1 1/4	0.14"	1 7/8" 45605K514 10.26	—	45605K554 12.13	45605K624 33.47
1 1/2	0.145"	2 1/4" 45605K515 8.16	1 1/2" 45605K213 35.99	45605K555 9.42	45605K625 20.28
2	0.154"	3" 45605K516 11.29	2" 45605K214 43.94	45605K556 11.71	45605K626 21.76
2 1/2	0.203"	3 3/4" 45605K517 23.85	—	45605K557 23.85	45605K627 54.40
3	0.216"	4 1/2" 45605K521 30.34	3" 45605K216 56.49	45605K561 21.97	45605K631 43.94
4	0.237"	6" 45605K523 56.49	4" 45605K217 89.97	45605K563 39.59	45605K633 62.77
6	0.28"	9" 45605K525 154.13	—	45605K565 98.91	45605K635 141.44
8	0.322"	12" 45605K526 279.24	—	45605K527 194.78	45605K528 413.04
316/316L Stainless Steel					
1/2	0.109"	1 1/2" 45555K511 7.36	—	45555K551 9.93	45555K621 22.91
3/4	0.113"	1 1/2" 45555K512 7.45	—	45555K552 10.01	45555K622 23.11
1	0.133"	1 1/2" 45555K513 8.33	1" 45555K211 40.68	45555K553 10.07	45555K623 23.24
1 1/4	0.14"	1 7/8" 45555K514 12.59	—	45555K554 14.13	45555K624 40.68
1 1/2	0.145"	2 1/4" 45555K515 9.88	1 1/2" 45555K213 45.71	45555K555 11.43	45555K625 23.52
2	0.154"	3" 45555K516 13.95	2" 45555K214 60.68	45555K556 14.13	45555K626 25.19
2 1/2	0.203"	3 3/4" 45555K517 28.86	—	45555K557 31.18	45555K627 62.99
3	0.216"	4 1/2" 45555K521 37.39	3" 45555K216 71.67	45555K561 26.54	45555K631 50.36
4	0.237"	6" 45555K523 68.97	4" 45555K217 114.28	45555K563 48.42	45555K633 75.56
6	0.28"	9" 45555K525 197.65	—	45555K565 117.87	45555K635 190.40
8	0.322"	12" 45555K611 333.26	—	45555K612 223.12	45555K613 495.25

Caps and Stub Ends



Pipe Size	Wall Thick.	Caps	Stub Ends
304/304L Stainless Steel			
1/2	0.109"	45605K581 \$11.71	45605K651 \$13.04
3/4	0.113"	45605K582 13.39	45605K652 14.08
1	0.133"	45605K583 16.74	45605K653 17.73
1 1/4	0.14"	45605K584 31.39	45605K654 39.12
1 1/2	0.145"	45605K585 20.92	45605K655 18.25
2	0.154"	45605K586 14.22	45605K656 19.30
2 1/2	0.203"	45605K587 25.94	45605K657 39.64
3	0.216"	45605K591 19.25	45605K661 27.64
4	0.237"	45605K593 27.20	45605K663 39.12
6	0.28"	45605K595 62.77	45605K665 80.84
8	0.322"	45605K529 101.41	45605K531 120.34
316/316L Stainless Steel			
1/2	0.109"	45555K581 14.34	45555K651 16.04
3/4	0.113"	45555K582 18.21	45555K652 19.30
1	0.133"	45555K583 20.93	45555K653 22.43
1 1/4	0.14"	45555K584 38.75	45555K654 49.55
1 1/2	0.145"	45555K585 26.54	45555K655 23.47
2	0.154"	45555K586 18.40	45555K656 24.51
2 1/2	0.203"	45555K587 32.93	45555K657 50.59
3	0.216"	45555K591 24.41	45555K661 34.42
4	0.237"	45555K593 34.87	45555K663 49.02
6	0.28"	45555K595 75.56	45555K665 93.69
8	0.322"	45555K614 135.18	45555K615 153.73

Reducers



Pipe Size (A)	Pipe Size (B)	Reducers
304/304L Stainless Steel		
3/4	1/2	45605K711 \$13.39
1	1/2	45605K111 19.67
1	3/4	45605K716 15.48
1 1/4	3/4	45605K112 46.04
1 1/4	1	45605K726 22.18
1 1/2	1/2	45605K113 38.92
1 1/2	1	45605K725 10.05
1 1/2	1 1/4	45605K114 15.90
2	3/4	45605K115 37.65
2	1	45605K741 14.64
2	1 1/2	45605K745 11.71
2 1/2	1	45605K116 66.96
2 1/2	1 1/2	45605K746 52.31
3	1	45605K117 46.04
3	1 1/4	45605K118 66.96
3	1 1/2	45605K119 20.92
3	2	45605K762 18.83
4	1 1/2	45605K121 48.12
4	2	45605K122 27.19
4	3	45605K783 20.92
6	4	45605K786 54.40
8	4	45605K123 176.22
8	6	45605K532 122.95
316/316L Stainless Steel		
3/4	1/2	45555K711 \$16.28
1	1/2	45555K111 22.47
1	3/4	45555K716 19.37
1 1/4	3/4	45555K112 58.11
1 1/4	1	45555K717 30.22
1 1/2	1/2	45555K113 47.27
1 1/2	1	45555K725 13.39
1 1/2	1 1/4	45555K114 19.37
2	3/4	45555K115 46.48
2	1	45555K741 17.05
2	1 1/2	45555K745 13.95
2 1/2	1	45555K116 81.36
2 1/2	1 1/2	45555K746 65.86
3	1	45555K117 56.17
3	1 1/4	45555K118 81.36
3	1 1/2	45555K119 25.17
3	2	45555K762 22.47
4	1 1/2	45555K121 58.11
4	2	45555K122 32.94
4	3	45555K783 25.19
6	4	45555K786 63.92
8	4	45555K123 249.98
8	6	45555K616 147.95