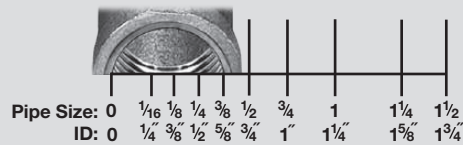
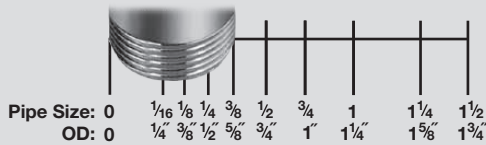



How to Measure Pipe Size for NPT or BSP Threads—Example shows pipe size 3/8.

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.

Standard-Wall Chrome-Plated Brass Threaded Pipe Nipples and Pipe


Fully Threaded

- Use with air, natural gas, oil, steam, water
- Fittings: Use threaded Class 125 low-pressure chrome-plated brass (see page 49)

The polished chrome plating gives this brass pipe a bright, shiny appearance and provides extra corrosion resistance. Also known as Schedule 40 pipe, it is commonly used in low-pressure applications. Pipe is seamless so it has a smooth interior for unrestricted flow. All meet ASTM B43, B687, and B456.

Fully threaded pipe is also known as a close nipple; it is threaded on each end to the center.


Threaded on Both Ends

NPT Fully Threaded			
Pipe Size	Lg.		
1/8	3/4"	9176K111	\$4.35
1/4	7/8"	9176K112	4.89
3/8	1"	9176K113	3.84
1/2	1 1/8"	9176K114	4.73
3/4	1 3/8"	9176K115	9.37
1	1 1/2"	9176K116	13.81

NPT Threaded on Both Ends						
Pipe Size	1 1/2" Lengths	2" Lengths	3" Lengths	3 1/2" Lengths	4" Lengths	
1/8	9176K121 \$4.89	9176K131 \$5.24	9176K141 \$6.43	9176K221 \$6.97	9176K151 \$7.80	
1/4	9176K122 5.66	9176K132 6.36	9176K142 8.09	9176K222 9.18	9176K152 10.36	
3/8	9176K123 4.32	9176K133 5.15	9176K143 6.91	9176K223 7.93	9176K153 8.89	
1/2	9176K124 5.44	9176K134 6.49	9176K144 9.05	9176K224 10.55	9176K154 11.77	
3/4	9176K125 9.91	9176K135 11.89	9176K145 15.83	9176K225 18.19	9176K155 20.62	
1		9176K136 16.95	9176K146 22.54	9176K226 26.06	9176K156 29.29	

NPT Threaded on Both Ends						
Pipe Size	4 1/2" Lengths	5" Lengths	6" Lengths	8" Lengths	10" Lengths	12" Lengths
1/8	9176K231 \$8.82	9176K161 \$9.56	9176K171 \$11.06	9176K181 \$14.48	9176K191 \$17.46	9176K211 \$20.46
1/4	9176K232 11.73	9176K162 12.79	9176K172 14.93	9176K182 19.47	9176K192 23.76	9176K212 28.04
3/8	9176K233 10.04	9176K163 11.00	9176K173 12.95	9176K183 17.62	9176K193 20.97	9176K213 24.84
1/2	9176K234 13.08	9176K164 14.42	9176K174 17.11	9176K184 22.73	9176K194 27.88	9176K214 33.09
3/4	9176K235 22.99	9176K165 25.35	9176K175 30.05	9176K185 40.67	9176K195 49.59	9176K215 58.93
1	9176K236 32.64	9176K166 36.03	9176K176 42.91	9176K186 57.30	9176K196 70.76	9176K216 84.25

Medium-Pressure Brass and Bronze Threaded Pipe Fittings

- Use with air, natural gas, oil, water, except connectors with intermittent swivel are only for use with water
- Pipe Nipples and Pipe: Use threaded Schedule 80 thick-wall brass (see pages 51-52)

Choose these fittings when you need better strength than our low-pressure brass and bronze pipe fittings. They offer good corrosion resistance. Also known as Class 250 fittings.

NPT Connectors and Caps—Brass

- Maximum Pressure: 400 psi @ 72° F

All meet ASTM B584, as well as ANSI/ASME B.16.15 and B1.20.1. **Unions** separate into three pieces so you can access your line without unthreading pipe connections.



Pipe Size	90° Elbows	45° Elbows	Tees	Crosses	Straights	Unions	Caps
1/4	9152K11 \$18.20		9152K76 \$28.52		9152K51 \$22.43	9152K61 \$41.67	
3/8	9152K12 18.20		9152K31 28.52		9152K52 22.43	9152K62 47.62	
1/2	9152K13 26.70		9152K32 32.17	9152K77 \$54.92	9152K53 26.80	9152K63 41.67	9152K71 \$31.40
3/4	9152K14 36.00	9152K21 \$37.98	9152K33 52.35	9152K41 80.03	9152K54 39.62	9152K64 59.10	9152K72 39.62
1	9152K15 53.58	9152K22 66.53	9152K34 71.42	9152K42 125.55	9152K55 60.12	9152K65 91.42	9152K73 60.12
1 1/4	9152K16 96.03	9152K23 100.72	9152K35 132.21	9152K43 161.34	9152K56 87.08	9152K66 127.12	9152K74 86.33
1 1/2	9152K17 129.66	9152K24 138.09	9152K36 172.77	9152K44 249.30	9152K57 110.42	9152K67 132.75	9152K75 108.45
2	9152K18 215.93	9152K25 225.23	9152K37 250.98	9152K45 403.06	9152K58 159.77	9152K68 209.68	9152K76 159.77

NPT Connectors with Intermittent Swivel—Bronze

- Maximum Pressure: 300 psi @ 72° F

Fittings rotate 360° as needed to allow movement in a rigid metal piping system.



Pipe Size	90° Elbows	Straights
1	53845K54 \$255.77	53845K44 \$240.38
1 1/2	53845K56 271.15	53845K46 253.85
2	53845K58 413.46	53845K48 407.69

Thread Adapters, Male—Brass

- Maximum Pressure: 250 psi @ 72° F

NPTF (Dryseal) threads are compatible with NPT threads.



Pipe Size	NPSM x NPTF
1/4	4685T11 \$1.54
3/8	4685T12 2.44
1/2	4685T13 3.17

(Continued on following page)