
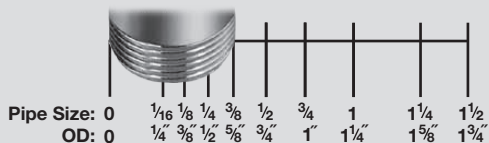



Stainless Steel Pipe Nipples & Pipe

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.

Thick-Wall Stainless Steel Threaded Pipe Nipples and Pipe



Pipe, Fully Threaded



Pipe, Threaded on Both Ends



Reducer

- Use with air, hydraulic fluid, natural gas, oil, steam, water
- Fittings: Use threaded Class 3000 high-pressure stainless steel (see pages 20-21)
- Flanges: Use threaded high-pressure Class 300 and Class 600 stainless steel (see page 18)

Thick walls, also known as Schedule 80, give this pipe the strength to handle high-pressure applications. It is seamless so it has a smooth interior for unrestricted flow.

304 stainless steel pipe has very good corrosion resistance. **316 stainless steel** pipe has excellent corrosion resistance.

Pipe—304/304L Stainless Steel

All meet ANSI/ASME B1.20.1, ASTM A312, and ASTM A733. **Fully threaded** pipe is also known as a close nipple; it is threaded on each end to the center.

| NPT Fully Threaded | | | |
|--------------------|--------|---------------------------|--------|
| Pipe Size | Lg. | | |
| 1/8 | 3/4" | 46755K11 | \$3.99 |
| 1/4 | 7/8" | 46755K12 | 4.50 |
| 3/8 | 1" | 46755K13 | 5.27 |
| 1/2 | 1 1/8" | 46755K14 | 6.51 |
| 3/4 | 1 3/8" | 46755K15 | 8.13 |
| 1 | 1 1/2" | 46755K16 | 10.80 |
| 1 1/4 | 1 5/8" | 46755K17 | 13.55 |
| 1 1/2 | 1 3/4" | 46755K18 | 15.68 |
| 2 | 2" | 46755K19 | 24.22 |
| 3 | 2 5/8" | 46755K261 | 56.08 |
| 4 | 2 7/8" | 46755K271 | 72.09 |

| NPT Threaded on Both Ends | | | | | | | | | | |
|---------------------------|--------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Pipe Size | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4" | 5" | 6" | 8" | |
| 1/8 | 48395K61 | \$5.01 | \$5.89 | \$6.70 | \$7.61 | \$8.67 | \$9.55 | \$11.27 | \$12.22 | \$15.92 |
| 1/4 | 48395K62 | 5.38 | 6.41 | 7.47 | 8.56 | 9.92 | 11.13 | 12.49 | 14.51 | 19.18 |
| 3/8 | 48395K63 | 6.22 | 7.39 | 8.71 | 10.03 | 11.64 | 12.15 | 14.58 | 17.02 | 22.65 |
| 1/2 | 48395K64 | 7.65 | 8.93 | 10.54 | 12.15 | 13.28 | 14.86 | 17.88 | 20.90 | 27.66 |
| 3/4 | 48395K65 | 8.56 | 9.96 | 11.75 | 12.70 | 14.79 | 16.47 | 19.87 | 23.23 | 30.61 |
| 1 | 48395K66 | — | 12.35 | 14.45 | 16.68 | 19.49 | 21.72 | 26.21 | 30.71 | 40.87 |
| 1 1/4 | 48395K67 | — | 15.75 | 18.29 | 21.17 | 24.77 | 27.62 | 33.35 | 39.08 | 51.47 |
| 1 1/2 | 48395K68 | — | 16.92 | 20.11 | 23.26 | 27.24 | 30.44 | 36.78 | 43.13 | 57.10 |
| 2 | 48395K69 | — | — | 26.08 | 29.68 | 34.83 | 38.91 | 47.15 | 55.35 | 62.21 |
| 3 | 48395K81 | — | — | — | 61.17 | 69.58 | 76.31 | 84.34 | 97.87 | 117.31 |
| 4 | 48395K82 | — | — | — | — | 97.69 | 95.03 | 112.26 | 130.60 | 177.59 |

| NPT Threaded on Both Ends | | | | | | | | | | | | | | |
|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Pipe Size | | 10" | 12" | 14" | 16" | 18" | 20" | 22" | 24" | 36" | 48" | 60" | 72" | 120" |
| 1/8 | 48395K61 | \$19.39 | \$22.61 | \$24.26 | \$26.09 | \$27.03 | \$29.97 | \$32.95 | \$36.02 | \$54.02 | \$72.08 | \$90.06 | \$108.11 | \$142.01 |
| 1/4 | 48395K62 | 23.50 | 27.62 | 29.10 | 33.25 | 35.20 | 39.14 | 43.05 | 46.96 | 64.75 | 86.27 | 108.05 | 121.00 | 167.65 |
| 3/8 | 48395K63 | 27.83 | 32.70 | 35.31 | 40.39 | 45.43 | 47.47 | 52.25 | 55.34 | 72.71 | 96.87 | 107.63 | 116.28 | 173.40 |
| 1/2 | 48395K64 | 34.11 | 40.15 | 46.05 | 52.64 | 54.12 | 60.14 | 64.29 | 72.19 | 90.22 | 112.24 | 140.32 | 148.60 | 229.64 |
| 3/4 | 48395K65 | 37.78 | 44.50 | 55.28 | 63.20 | 54.27 | 52.68 | 61.78 | 75.84 | 113.84 | 151.83 | 168.60 | 182.14 | 261.70 |
| 1 | 48395K66 | 50.41 | 59.40 | 65.25 | 81.60 | 73.35 | 77.72 | 89.73 | 97.91 | 146.83 | 163.12 | 188.20 | 225.89 | 337.50 |
| 1 1/4 | 48395K67 | 55.08 | 63.28 | 79.82 | 71.39 | 92.34 | 102.61 | 112.85 | 123.14 | 175.94 | 218.99 | 236.87 | 263.93 | 424.70 |
| 1 1/2 | 48395K68 | 59.44 | 70.13 | 84.74 | 96.84 | 108.92 | 121.05 | 133.16 | 145.27 | 193.64 | 223.44 | 279.31 | 311.22 | 484.11 |
| 2 | 48395K69 | 76.89 | 90.70 | 110.43 | 126.19 | 135.18 | 150.24 | 165.25 | 180.28 | 233.68 | 245.78 | 307.23 | 368.68 | 608.52 |
| 3 | 48395K81 | 142.61 | 152.27 | 163.78 | 187.17 | 210.58 | 233.97 | 257.36 | 280.75 | 380.39 | 507.19 | 633.99 | — | — |
| 4 | 48395K82 | 216.59 | 253.35 | 220.31 | 251.78 | 283.26 | 314.73 | 346.20 | 377.67 | 566.53 | 755.37 | — | — | — |

Pipe—316/316L Stainless Steel

All meet ANSI/ASME B1.20.1, ASTM A312, and ASTM A733. **Fully threaded** pipe is also known as a close nipple; it is threaded on each end to the center.

| NPT Fully Threaded | | | |
|--------------------|--------|--------------------------|--------|
| Pipe Size | Lg. | | |
| 1/8 | 3/4" | 4475K11 | \$4.15 |
| 1/4 | 7/8" | 4475K12 | 4.70 |
| 3/8 | 1" | 4475K13 | 5.63 |
| 1/2 | 1 1/8" | 4475K14 | 7.32 |
| 3/4 | 1 3/8" | 4475K15 | 9.33 |
| 1 | 1 1/2" | 4475K16 | 11.95 |
| 1 1/4 | 1 5/8" | 4475K17 | 16.34 |
| 1 1/2 | 1 3/4" | 4475K18 | 19.34 |
| 2 | 2" | 4475K19 | 29.87 |
| 3 | 2 5/8" | 4475K251 | 69.12 |
| 4 | 2 7/8" | 4475K271 | 90.86 |

| NPT Threaded on Both Ends | | | | | | | | | | |
|---------------------------|--------------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| Pipe Size | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4" | 5" | 6" | 8" | |
| 1/8 | 68045K61 | \$5.46 | \$6.52 | \$7.51 | \$8.58 | \$9.85 | \$10.91 | \$12.24 | \$14.21 | \$18.63 |
| 1/4 | 68045K62 | 5.83 | 7.00 | 8.27 | 9.50 | 11.08 | 12.46 | 14.08 | 16.47 | 21.80 |
| 3/8 | 68045K63 | 6.79 | 8.20 | 9.71 | 11.22 | 12.30 | 13.76 | 16.60 | 19.44 | 25.90 |
| 1/2 | 68045K64 | 8.78 | 10.47 | 12.49 | 13.63 | 15.99 | 17.92 | 21.70 | 25.48 | 33.81 |
| 3/4 | 68045K65 | 9.92 | 11.73 | 13.18 | 15.31 | 17.92 | 20.05 | 24.29 | 28.55 | 37.78 |
| 1 | 68045K66 | — | 14.79 | 17.44 | 20.31 | 23.87 | 26.74 | 32.42 | 38.14 | 50.83 |
| 1 1/4 | 68045K67 | — | 19.12 | 22.57 | 26.29 | 30.94 | 34.65 | 42.08 | 49.51 | 58.60 |
| 1 1/2 | 68045K68 | — | 21.12 | 25.32 | 29.55 | 34.81 | 39.01 | 47.44 | 55.84 | 64.70 |
| 2 | 68045K69 | — | — | 33.23 | 38.30 | 45.21 | 50.73 | 61.78 | 61.90 | 82.71 |
| 3 | 68045K81 | — | — | — | 76.09 | 87.70 | 96.98 | 110.38 | 119.96 | 162.17 |
| 4 | 68045K83 | — | — | — | — | 117.25 | 114.84 | 135.64 | 158.83 | 215.05 |

(Continued on following page)