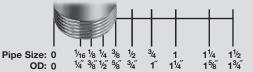
# Stainless Steel Pipe Fittings & Flanges

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

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

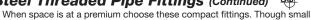
Pipe size is not an actual measured size, but rather an industry designation. Align your pipe or fitting with the "0" line as shown. The line on the opposite edge gives the pipe size. You can also measure the OD of male threads or the ID of female threads, then find the corresponding pipe size in the chart. If your measurement doesn't match an OD or ID listed, round to the nearest 1/8".





( $\dot{i}$ ) To measure larger pipe sizes, go to mcmaster.com and search for 4464KAC. For information about fittings and pipe, see pages 2-3.

## Miniature Medium-Pressure Stainless Steel Threaded Pipe Fittings (Continued)



Use with air, natural gas, oil, steam, water
Maximum Pressure: 500 psi @ 72° F;

100 psi @ 350° F for steam

in size, they have the strength to handle medium-pressure applications. Fittings are 303 stainless steel for very good corrosion resistance. They meet ASTM A314, ASTM A320, and ASTM A582. Metric and UN/UNF (SAE) male threads have a fluoroelastomer gasket

to protect against leaks. UN/UNF (SAE) threads are also known as O-ring

#### Thread Adapters, Male-Straights (Cont.)



NPT x Metric										
1	INFIXMENT									
Pipe	Thread		Pipe	Thread			Pipe	Thread		
Size	Size		Size	Size			Size	Size		
1/16	M3×0.5 2684K74	\$15.95	1/8	M3×0.5	2684K821	\$15.95	1/4	M3×0.5	2684K948	\$19.45
1/16	M5×0.5 2684K75	7 14.38	1/8	M5×0.5	2684K831	14.38	1/4	M5×0.5	2684K952	17.30
1/16	M6×1 2684K77	14.38	1/8	M6×1	2684K842	14.38	1/4	M6×1	2684K957	17.30
1/16	M8×12684K774	14.38	1/8	M8×1	2684K853	14.38	1/4	M8×1	2684K959	17.30
1/16	M10×1.25 2684K78	15.95	1/8	M10×1.25	2684K858	15.95	1/4	M10×1.25	2684K974	17.30

#### Reducing Thread Adapters, Malex Female - Bushings



NPT×UN	Metric × UN/UNF (SAE)		
Pipe Thread	Pipe Thread	Thread Thread	
Size (A) Size (B)	Size (A) Size (B)	Size (A) Size (B)	
<sup>1</sup> / <sub>16</sub> 10-32 <b>2684K34</b> \$10.30	<sup>1</sup> / <sub>4</sub> 10-32 <b>2684K36</b> \$12.80	M6×1 10-32 <b>2684K31</b> \$10.95	
<sup>1</sup> / <sub>8</sub> 10-32 <b>2684K35</b> 10.30	<sup>1</sup> / <sub>4</sub>	M8×1 10-32 <b>2684K32</b> 10.95	
1/a 1/4"-28 <b>2684K655</b> 10.30			

NPT × Metric							
1	INPLXMETIC						
Pipe	Thread	Pipe Thread	Pipe Thread				
Size (A)	Size (B)	Size (A) Size (B)	Size (A) Size (B)				
1/16	M3×0.5 2684K637 \$10.30	<sup>1</sup> / <sub>8</sub>	1/4 M6×1 <b>2684K719</b> \$12.80				
1/16	M5×0.5 <b>2684K642</b> 10.30	<sup>1</sup> / <sub>8</sub> M8×1 <b>2684K681</b> 10.30	<sup>1</sup> / <sub>4</sub> M8 x 1 <b>2684K723</b> 12.80				
	M3×0.5 <b>2684K673</b> 10.30		<sup>1</sup> / <sub>4</sub> M10×1.25 <b>2684K731</b> 15.30				
1/8	M5×0.5 <b>2684K676</b> 10.30	<sup>1</sup> / <sub>4</sub> M5×0.5 <b>2684K704</b> 12.80					

# High-Pressure Stainless Steel Threaded Pipe Flanges





**Raised Surface** on Back

- · Use with air, hydraulic fluid,
- natural gas, oil, steam, water
   Pipe Nipples and Pipe: Use threaded Schedule 80 thick-wall stainless steel (see pages 22-23)

Forged for high strength, these heavy duty flanges can handle high-pressure applications. They are also known as ANSI flanges. Bolt two same-size flanges together with a gasket (sold separately) to create an access point within a line. For gaskets, see pages 3621-3624. Flanges meet ASTM A182 and ANSI/ASME B16.5.

304 stainless steel flanges provide very good corrosion resistance. 316 stainless steel flanges have excellent corrosion resistance.

### NPT Class 300 Forged Flanges

• Maximum Pressure: 300 psi @ 72° F; 300 psi @ 300° F for steam

Pipe Size	Flange OD	For Bolt Dia. (No.)	304/304L Stainless Steel	316/316L Stainless Steel
1/2	33/4"		<b>7977K11</b> \$42.74	<b>7469T31</b> \$54.36
3/4	45/8"	. 5/8" (4)	<b>7977K12</b> 44.45	<b>7469T32</b> 68.44
1	47/8"	. 5/8" (4)	<b>7977K13</b> 45.35	<b>7469T33</b> 73.33
11/4	51/4"	. 5/8" (4)	<b>7977K14</b> 68.44	<b>7469T34</b> 101.68
11/2	61/8"	. 3/4" (4)	<b>7977K15</b> 69.69	<b>7469T35</b> 123.54
2	61/2"	5/8" (8)	<b>7977K16</b> 82.63	<b>7469T36</b> 132.68
21/2	71/2"	3/4" (8)	<b>7977K17</b> 135.58	<b>7469T37</b> 232.91
3	81/4"	. 3/4" (8)	<b>7977K18</b> 140.96	<b>7469T38</b> 237.56
4	10"	. 3/4" (8)	<b>7977K19</b> 184.04	<b>7469T39</b> 305.56
6	121/2"	3/4" (12)	<b>7977K21</b> 516.91	<b>7469T41</b> 595.46
8	15"	. <sup>7</sup> /8" (12)	<b>7977K22</b> 521.78	<b>7469T42</b> 790.55

### NPT Class 600 Forged Flanges

 Maximum Pressure: 1,200 psi @ 72° F; 840 psi @ 400° F for steam

Pipe Flange		304/304L	316/316L
Size OD		Stainless Steel	Stainless Steel
1	5/8" (4). 5/8" (4). 5/8" (4). 3/4" (4). 5/8" (8). 3/4" (8). 3/4" (8).	1441N26 76.12 1441N27 83.94 1441N28 143.75 1441N29 119.56 1441N31 126.87 1441N32 195.20	1501N23 90.40 1501N24 156.16 1501N25 122.56 1501N26 135.75 1501N27 251.12