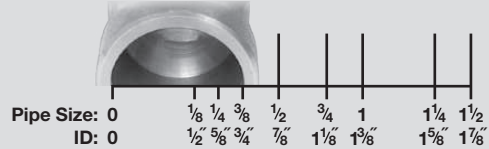
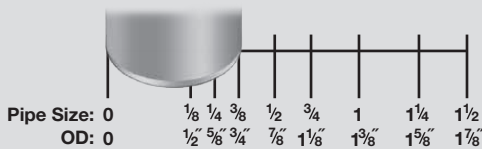


Stainless Steel Pipe Flanges

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

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.

High-Pressure Stainless Steel Unthreaded Pipe Flanges



- Use with air, hydraulic fluid, natural gas, oil, steam, water (unless noted)
- Maximum Pressure (unless noted):
Class 300: 300 psi @ 72° F;
300 psi @ 360° F for steam
Class 600: 1,200 psi @ 72° F;
840 psi @ 400° F for steam
- Pipe: Use unthreaded Schedule 40 standard-wall stainless steel (see page 39)
- Fittings: Use butt-weld Schedule 40 standard-wall stainless steel (see page 36)

Use these heavy duty forged flanges for high-pressure applications. Bolt two flat-surface flanges or two raised-surface flanges of same size together with a gasket (sold separately on pages 3619-3624) to create an access point in a pipe line. Flanges come with a material certificate with traceable lot number and test report. They meet ASTM A182 and ANSI/ASME B16.5, unless noted. Class 300 flanges also meet MSS SP-6 and SP-25.

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

Butt-weld flanges are also known as weld-neck flanges; the flange neck has a beveled end that, when flush to pipe, creates a trough for a strong weld. **Slip-on weld** flanges have no internal stop; slide a pipe through the flange and weld on both sides. **Socket-connect** flanges have an internal stop that supports the pipe when welding and prevents the pipe from sliding all the way through. **Stub-end** flanges are also known as lap-joint flanges; use them with a stub-end fitting (not included). The stub-end fitting slides into the flange and welds to pipe (not the flange). Since the flange isn't welded to the pipe, it can be disconnected easily for frequent cleaning and inspecting. **Cap** flanges are also known as blind flanges.



Pipe Size	Flange OD	For Bolt Dia. (No.)	Butt Weld		Slip-On Weld		Socket Connect		Stub End		Cap	
Class 300 Forged Flanges												
304/304L Stainless Steel												
1/2	3 3/4"	1/2" (4)	4448T286	\$55.96	4448T251	\$43.01	4448T264	\$50.80	4448T297	\$48.65	4448T275	\$40.18
3/4	4 5/8"	5/8" (4)	4448T287	51.78	4448T252	44.43	4448T265	44.43	4448T298	48.65	4448T276	47.68
1	4 7/8"	5/8" (4)	4448T288	55.12	4448T253	54.95	4448T266	54.01	4448T299	52.80	4448T277	52.43
1 1/4	5 1/4"	5/8" (4)	4448T289	89.80	4448T254	75.71	4448T267	84.67	4448T311	85.37	4448T278	79.44
1 1/2	6 1/8"	3/4" (4)	4448T291	91.84	4448T255	89.87	4448T268	79.87	4448T312	98.13	4448T279	83.69
2	6 1/2"	5/8" (8)	4448T292	103.69	4448T256	89.36	4448T269	111.02	4448T313	113.22	4448T281	101.24
2 1/2	7 1/2"	3/4" (8)	4448T293	165.33	4448T257	171.55	4448T271	178.23	4448T314	183.24	4448T282	148.22
3	8 1/4"	3/4" (8)	4448T294	148.95	4448T258	159.38	4448T272	175.08	4448T315	168.98	4448T283	130.13
4	10"	3/4" (8)	4448T295	214.48	4448T259	209.33	4448T273▲	267.18	4448T262	217.30	4448T284	203.63
6	12 1/2"	3/4" (12)	4448T296	451.56	4448T261	361.82	4448T274▲	493.80	4448T263	394.02	4448T285	352.04
8	15"	7/8" (12)	4448T45	477.69	4448T43	417.22			4448T47	474.72	4448T48	481.22
10	17 1/2"	1" (16)	4448T46	649.76	4448T44	602.64					4448T49	673.14
316/316L Stainless Steel												
1/2	3 3/4"	1/2" (4)	4452T296	55.73	4452T261	55.44	4452T274	57.71	4452T317	53.70	4452T285	47.40
3/4	4 5/8"	5/8" (4)	4452T297	67.42	4452T262	57.96	4452T275	59.55	4452T318	60.38	4452T286	58.23
1	4 7/8"	5/8" (4)	4452T298	74.11	4452T263	70.82	4452T276	62.39	4452T319	65.87	4452T287	60.14
1 1/4	5 1/4"	5/8" (4)	4452T299	117.13	4452T264	95.92	4452T277	95.78	4452T321	90.87	4452T288	107.96
1 1/2	6 1/8"	3/4" (4)	4452T311	108.89	4452T265	97.42	4452T278	110.55	4452T322	102.31	4452T289	88.67
2	6 1/2"	5/8" (8)	4452T312	133.00	4452T266	121.56	4452T279	121.57	4452T323	122.55	4452T291	91.85
2 1/2	7 1/2"	3/4" (8)	4452T313	204.37	4452T267	213.26	4452T281	197.77	4452T324	202.81	4452T292	183.73
3	8 1/4"	3/4" (8)	4452T314	197.10	4452T268	191.32	4452T282	234.82	4452T325	201.92	4452T293	209.09
4	10"	3/4" (8)	4452T315	321.18	4452T269	273.48	4452T283▲	328.94	4452T272	284.31	4452T294	263.35
6	12 1/2"	3/4" (12)	4452T316	536.31	4452T271	532.67	4452T284▲	530.65	4452T273	546.48	4452T295	520.34
8	15"	7/8" (12)	4452T113	613.44	4452T111	491.05			4452T115	559.60	4452T116	545.24
10	17 1/2"	1" (16)	4452T114	841.79	4452T112	754.10					4452T117	860.91
Class 600 Forged Flanges												
304/304L Stainless Steel												
1/2	3 3/4"	1/2" (4)	1538N55	70.92	1538N15	59.64	1538N35	70.30	1538N75	66.96	1538N91	60.26
3/4	4 5/8"	5/8" (4)	1538N56	72.46	1538N16	64.48	1538N36	74.16	1538N76	73.66	1538N92	71.92
1	4 7/8"	5/8" (4)	1538N57	77.00	1538N17	69.56	1538N37	80.60	1538N77	77.38	1538N93	80.36
1 1/4	5 1/4"	5/8" (4)	1538N58	153.76	1538N18	137.98	1538N38	143.62	1538N78	152.18	1538N94	155.35
1 1/2	6 1/8"	3/4" (4)	1538N59	115.32	1538N19	101.56	1538N39	118.04	1538N79	111.10	1538N95	111.22
2	6 1/2"	5/8" (8)	1538N61	123.88	1538N21	107.14	1538N41	130.58	1538N81	121.64	1538N96	125.74
2 1/2	7 1/2"	3/4" (8)	1538N62	183.18	1538N22	175.85	1538N42	194.91	1538N82	205.16	1538N97	215.42
3	8 1/4"	3/4" (8)	1538N63	191.75	1538N23	187.80	1538N43	221.85	1538N83	202.69	1538N98	207.07
4	10 3/4"	7/8" (8)	1538N64	362.50	1538N24	326.43			1538N84	355.47	1538N99	376.65
316/316L Stainless Steel												
1/2	3 3/4"	1/2" (4)	1503N31	74.64	1503N11	65.48	1503N21	74.16	1503N41	73.66	1503N51	70.30
3/4	4 5/8"	5/8" (4)	1503N32	83.82	1503N12	71.42	1503N22	78.98	1503N42	83.32	1503N52	76.38
1	4 7/8"	5/8" (4)	1503N33	92.00	1503N13	78.98	1503N23	86.80	1503N43	90.28	1503N53	86.80
1 1/4	5 1/4"	5/8" (4)	1503N34	159.73	1503N14	151.51	1503N24	152.18	1503N44	158.27	1503N54	163.45
1 1/2	6 1/8"	3/4" (4)	1503N35	129.42	1503N15	108.44	1503N25	121.53	1503N45	133.92	1503N55	130.58
2	6 1/2"	5/8" (8)	1503N36	139.22	1503N16	117.24	1503N26	147.89	1503N46	156.24	1503N56	140.62
2 1/2	7 1/2"	3/4" (8)	1503N37	221.33	1503N17	167.92	1503N27	279.00	1503N47	197.47	1503N57	205.22
3	8 1/4"	3/4" (8)	1503N38	223.20	1503N18	204.18	1503N28	295.53	1503N48	251.10	1503N58	245.93
4	10 3/4"	7/8" (8)	1503N39	450.02	1503N19	448.47			1503N49	491.87	1503N59	460.35

▲ Not for use with steam. Does not meet ANSI/ASME B16.5.