

ASME/ANSI B16.5 Flanges and Bolts Dimensions - Class 150					
Nominal Pipe Size NPS (Inches)	Class 150				
	Outside Diameter of Flange (Inches)	No. of Bolts	Diameter of Bolts (Inches)	Diameter of Bolt Holes (Inches)	Bolt Circle (Inches)
1/2"	3.50	4	1/2"	5/8"	2.38
3/4"	3.88	4	1/2"	5/8"	2.75
1"	4.25	4	1/2"	5/8"	3.12
1-1/4"	4.62	4	1/2"	5/8"	3.50
1-1/2"	5.00	4	1/2"	5/8"	3.88
2"	6.00	4	5/8"	3/4"	4.75
2-1/2"	7.00	4	5/8"	3/4"	5.50
3"	7.50	4	5/8"	3/4"	6.00
3-1/2"	8.50	8	5/8"	3/4"	7.00
4"	9.00	8	5/8"	3/4"	7.50
5"	10.00	8	3/4"	7/8"	8.50
6"	11.00	8	3/4"	7/8"	9.50
8"	13.50	8	3/4"	7/8"	11.75
10"	16.00	12	7/8"	1"	14.25
12"	19.00	12	7/8"	1"	17.00
14"	21.00	12	1"	1-1/8"	18.75
16"	23.50	16	1"	1-1/8"	21.25
18"	25.00	16	1-1/8"	1-1/4"	22.75
20"	27.50	20	1-1/8"	1-1/4"	25.00
24"	32.00	20	1-1/4"	1-3/8"	29.50

NOTE: 1 inch = 25.4 mm

ASME/ANSI B16.5 Flanges and Bolts Dimensions - Class 300					
Nominal Pipe Size NPS (Inches)	Class 300				
	Diameter of Flange (Inches)	No. of Bolts	Diameter of Bolts (Inches)	Diameter of Bolt Holes (Inches)	Bolt Circle (Inches)
1/2"	3.75	4	1/2"	5/8"	2.62
3/4"	4.62	4	5/8"	3/4"	3.25
1"	4.88	4	5/8"	3/4"	3.50
1-1/4"	5.25	4	5/8"	3/4"	3.88
1-1/2"	6.12	4	3/4"	7/8"	4.50
2"	6.50	8	5/8"	3/4"	5.00
2-1/2"	7.50	8	3/4"	7/8"	5.88
3"	8.25	8	3/4"	7/8"	6.62
3-1/2"	9.00	8	3/4"	7/8"	7.25
4"	10.00	8	3/4"	7/8"	7.88
5"	11.00	8	3/4"	7/8"	9.25
6"	12.50	12	3/4"	7/8"	10.62
8"	15.00	12	7/8"	1"	13.00
10"	17.50	16	1"	1-1/8"	15.25
12"	20.50	16	1-1/8"	1-1/4"	17.75
14"	23.00	20	1-1/8"	1-1/4"	20.24
16"	25.50	20	1-1/4"	1-3/8"	22.50
18"	28.00	24	1-1/4"	1-3/8"	24.74
20"	30.50	24	1-1/4"	1-3/8"	27.00
24"	36.00	24	1-1/2"	1-5/8"	32.00

LEARN MORE



800.726.9800

Follow us on      

www.meritbrass.com
www.mbwebxpress.com
contactus@meritbrass.com

Merit Brass Headquarters Has An ISO 9001:2015 Registered Quality Management System

Pipe Nipples		
Red Brass (Standard/Extra Heavy) ASTM B687**		1/8" – 6"
Chrome Plated Red Brass ASTM B687**		1/8" – 6"
Stainless Steel (304/L & 316/L) ASTM A733	Schedule 40 Welded	1/8" – 8"
	Schedule 40 & 80 Seamless	1/8" – 3"
Aluminum (6061-40)		1/8" – 4"

Pipe		
Red Brass ASTM B43**	Standard H58 Hard Temper	1/8" – 6"
	Standard O61 Annealed Temper	1/8" – 4"
	Extra Heavy H58 Hard Temper	1/8" – 4"
	Chrome Plated H58 Hard Temper	1/4" – 4"
Stainless Steel (304/L & 316/L) ASTM A312/SA312	Welded Schedule 10	1/2" – 12"
	Schedule 40 Welded	1/8" – 12"
	Schedule 80 Welded	1/8" – 4"
	Schedule 40 Seamless	1/8" – 4"
	Schedule 80 Seamless	1/8" – 4"
Aluminum ASTM B241 (6061-T6) - Standard		1/8" – 6"

Tubing		
Stainless Steel (304/L & 316/L) (0.035, 0.049, 0.065, 0.080, 0.095, 0.109 Walls)	Seamless (ASTM A213/A269)	1/4" – 1"
	Welded (ASTM A249/A269)	1/4" – 1"

Syphons	
Brass**	1/4"
Stainless Steel (304/L & 316/L)	1/4"

Tape	
Stainless Steel PTFE Thread Tape	1/2" & 3/4"

Valves	
Stainless Steel - K Series	1/2" – 6"
Stainless Steel - V Series	1/2" – 3"
Brass - Leaded* & Lead-Free**	1/4" – 4"
Instrumentation	1/4" – 1/2"

Tube Fittings	
Stainless Steel	1/8" – 1"

• **Threading Capabilities**

- » NPT (National Pipe Taper)
- » NPTF (National Pipe Taper Fuel & Oil)
- » NPSL (National Pipe Straight Locknut)
- » NPSM (National Pipe Straight Mechanical)
- » NPSH (National Pipe Straight Hose)
- » BSPT (British Standard Pipe Taper)

• **Manufacturing Capabilities**

- » Plain Roller Cut
- » Plain Square Cut
- » Plain Ream & Chamfer
- » Groove (Roll or Cut)
- » Per Print Bending (1/8" - 1" Diameter)
- » Per Print O.D. & I.D. Machining

Fittings			
Brass Threaded ASTM B584 Leaded* Lead-Free**	Domestic (125LB & 250LB)	1/8" – 6"	
	Import (125LB & 250LB)	1/8" – 4"	
	Chrome Plated (125LB)	1/8" – 2"	
Brass Barstock	Domestic (125LB) – Leaded* & Lead-Free**	1/8" – 3/4"	
Stainless Steel (304 & 316)	Cast 150LB (Standard) (AISI 304 & 316)	1/8" – 4"	
	Cast 150LB MSS SP-114	Threaded	1/8" – 4"
		Socket Weld	1/2" – 2"
	Barstock 1000LB ASTM A182 or A479	1/8" – 3"	
	3000LB (Threaded & Socket Weld) ASTM A182	1/8" – 3"	
	Buttweld (Schedules 10 & 40) ASTM A403	Schedule 10	1/8" – 3"
Schedule 40 (Type A Only)		1/2" – 8"	
Carbon Steel Forged A105-N	2000LB Threaded	1/4" – 2"	
	3000LB Threaded	1/8" – 3"	
	3000LB Socket Weld	1/2" – 3"	

Outlets		
Stainless Steel (304/L & 316/L)	Threaded	1/8" – 4"
	Socket Weld	1/2" – 4"
	Buttweld (Schedule 40)	1/2" – 4"
Carbon Steel Forged A105-N	Threaded	1/2" – 4"
	Socket Weld	1/2" – 4"
	Buttweld (Schedule 40)	1/2" – 4"

Flanges			
Brass - Import & Domestic Leaded* & Lead-Free**	Companion (Threaded) (150LB & 300LB) ASTM B584	1/2" – 6"	
Stainless Steel	ANSI 150LB & 300LB (304/L & 316/L) ASTM A182	1/2" – 12"	
	MSS 150LB (304 & 316) ASTM A351	1/2" – 10"	
	Plate (304/L & 316/L) (150LB)	Tube OD Slip On	1-1/2" – 12"
		Blind	1" – 12"
IPS Slip On		1" – 12"	
Ductile Iron Backup ASTM A536 & Galvanized		1/2" – 12"	

Engineered Products	
CopperPress <small>© Merit Brass Co.</small>	Fittings 1/2" – 4" and Valves 1/2" – 2" (EPDM)
CarbonPress <small>© Merit Brass Co.</small>	Fittings 1/2" – 4" (HNBR, EPDM & FKM)
StainlessPress <small>© Merit Brass Co.</small>	Fittings and Valves 1/2" – 2" (HNBR, EPDM & FKM)
MeritPress <small>© Merit Brass Co.</small>	Fittings 1/2" – 4" and Valves 1/2" – 2" (EPDM)

Every precaution has been taken in preparing this sheet. Merit Brass Company cannot be held responsible for omissions or typographical errors.

* **WARNING:** This product can expose you to Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. Leaded product is not for use in potable water.

** Conforms with lead content requirements for lead-free plumbing as defined by the U.S. Safe Drinking Water Act. Certified <=0.25 weighted average % lead.

LOCATIONS

CLEVELAND HEADQUARTERS

One Merit Drive/PO Box 43127. Cleveland, OH 44143

BIRMINGHAM DISTRIBUTION CENTER

220 Oxmoor Court. Birmingham, AL 35209

DALLAS DISTRIBUTION CENTER

10614 King William Drive. Dallas, TX 75220

LONG BEACH PIPE DEPOT

2396 E. Artesia Blvd. Long Beach, CA 90805

SPARKS DISTRIBUTION CENTER

200 Vista Boulevard Suite #106. Sparks, NV 89434

HOUSTON DISTRIBUTION CENTER

4680 S. Sam Houston Pkwy W, Suite 120. Houston, TX 77053