

CAST IRON FLANGED FITTINGS



Class 125 (Standard)

 FIGURE 812 Flanged Reducing Tee		Size						Unit Weight			
								Black		Galv.	
		NPS	DN	NPS	DN	NPS	DN	lbs	kg	lbs	kg
 4 NPS (100 DN) 6 NPS (150 DN) 5 NPS (125 DN) Read as: 6 x 5 x 4 (150 x 125 x 100DN) Dimensions for reducing tees for sizes 16" NPS (400 DN) and smaller have same center to face dimensions as straight size fittings corresponding to the largest opening. Dimensions of sizes not listed furnished on request.	3	80	2	50	3	80	33.00	14.97	—	—	
			3	80	1½	40	32.00	14.51	—	—	
					2	50	34.00	15.42	—	—	
					2½	65	35.00	15.87	—	—	
					4	100	56.00	25.40	—	—	
	4	100	2	50	4	100	50.00	22.68	—	—	
			2½	65	4	100	56.00	25.40	—	—	
			3	80	3	80	53.00	24.04	—	—	
					4	100	59.00	26.76	—	—	
			4	100	2	50	51.00	23.13	—	—	
					2½	65	56.00	25.40	—	—	
					3	80	57.00	25.85	—	—	
					6	150	88.00	39.91	—	—	
	5	125	5	125	3	80	71.00	32.20	—	—	
	6	150	4	100	4	100	88.00	39.91	88.00	39.91	
					6	150	94.00	42.63	—	—	
			5	125	4	100	91.00	41.27	—	—	
					2	50	86.00	39.00	—	—	
			6	150	2½	65	90.00	40.82	—	—	
					3	80	92.00	41.72	—	—	
					4	100	97.00	43.99	—	—	
					5	125	105.00	47.62	—	—	
					8	200	142.00	64.40	—	—	
					6	150	140.00	63.49	—	—	
	8	200	4	100	8	200	146.00	66.21	—	—	
					4	100	125.00	56.69	—	—	
			6	150	6	150	144.00	65.31	—	—	
					8	200	159.00	72.11	—	—	
			8	200	3	80	140.00	63.49	—	—	
					4	100	143.00	64.85	143.00	64.85	
					6	150	156.00	70.75	156.00	70.75	
					6	150	220.00	99.77	—	—	
	10	250	8	200	8	200	232.00	105.22	—	—	
					10	250	262.00	118.82	—	—	
			10	250	4	100	225.00	102.04	—	—	
					6	150	240.00	108.84	—	—	
					8	200	262.00	118.82	—	—	
					8	200	298.00	135.15	—	—	
	12	300	8	200	6	150	323.00	146.49	—	—	
					8	200	330.00	149.66	—	—	
			12	300	8	200	362.00	164.17	—	—	
					10	250					

Note: See following page for pressure-temperature ratings.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		☐ Approved	
Address:		☐ Approved as noted	
Contractor:		☐ Not approved	
Engineer:		Remarks:	
Submittal Date:			
Notes 1:			
Notes 2:			

Class 125 (Standard) and Class 250 (Extra Heavy)



For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil Sales Representative.

Specifications

All Cast Iron Flanged Fittings and Flanges in sizes listed are made to ASME and are marked 125 or 250 for pipe sizes 12 NPS (300 DN) and smaller. Unless otherwise specified, cast iron flanges and fittings are drilled and faced in accordance with ASME B 16.1.

Coatings

Flanged fittings and flanges are available in both black painted and galvanized. Consult an Anvil Representative for available sizes.

Sizes

Size of all flanged fittings and flanges scheduled indicates nominal pipe diameter of ports. Standard reducing elbows carry the same dimensions center-to-face as regular elbows of largest straight size.

Ordering

To order reducing companion flanges, specify threaded or reduced size first, then the outside diameter of flange wanted. For instance, if a reducing flange is required to connect a 5-inch pipe to an 8-inch flanged valve or fitting having a 13 1/2 inch O.D. flange, order: 5 x 13 1/2 inch standard reducing flange.

Dimensions

Bolt holes for bolts smaller than 1 3/4 inches (44mm) in diameter are drilled 1/8 inch larger than the bolt diameter; 1 3/4 inch (44mm) and larger bolts have holes drilled 1/4 inch (6mm) larger than bolt diameter. Bolt holes straddle the center line. Bolt holes are spot faced on order only.

Tolerances

An inspection limit of plus or minus 1/32 inch (1mm) shall be allowed on all center to contact surface dimensions for sizes up to and including 10 NPS (250 DN); plus or minus 1/16 inch (1.5mm) on sizes larger than 10 NPS (250 DN). Inspection limit of plus or minus 1/16 inch (1.5mm) shall be allowed on all contact surface to contact surface dimensions for sizes up to and including 10 NPS (250 DN); plus or minus 1/8 inch (3mm) on sizes larger than 10 NPS (250 DN). The largest opening in the fitting governs the tolerance to be applied to all openings.



Cast Iron Flanged Fittings and Cast Iron Flanges

Temperature		Pressure*			
		Class 125		Class 250	
		1"-12"		1"-12"	
(°F)	(°C)	psi	bar	psi	bar
-20° to 150°	-28.9° to 65.6°	200	13.8	500	34.5
200°	93.3°	190	13.1	460	31.7
225°	107.2°	180	12.4	440	30.3
250°	121.1°	175	12.1	415	28.6
275°	135.0°	170	11.7	395	27.2
300°	148.9°	165	11.4	375	25.9
325°	162.8°	155	10.7	355	24.5
350°	178.3°	150	10.3	335	23.1
375°	190.6°	145	10.0	315	21.7
400°	207.8°	140	9.7	290	20.0
425°	218.3°	130	9.0	270	18.6
450°	232.2°	125	8.6	250	17.2

* Applies to fittings and flanges manufactured with ASTM A-126 Class B material only.

Standards and Specifications

	Dimensions	Material	Galvanizing****	Thread	Pressure Rating	Federal/Other
CAST IRON FLANGES AND FLANGED FITTINGS						
Class 125 (1"-12")	ASME B16.1•	ASTM A- 126 (A) or (B)	ASTM A-153	ASME B1.20.1+	ASME B16.1	ASME B16.1•
Class 250 (1"-12")	ASME B16.1•	ASTM A- 126 (A) or (B)	ASTM A-153	ASME B1.20.1+	ASME B16.1	ASME B16.1•

• an American National standard (ANSI), + ASME B1.20.1 was ANSI B2.1

**** ASTM B 633. Type I, SC 4, may be supplied as alternate zinc coating per applicable ASME B16 product standard.