## **Anvil® Cast Iron Flanges**



Companion Flange (Class 250 Extra Heavy) Fig. 1025



Class 250 (extra heavy) iron flanges are manufactured to American National Standard ASME B16.1 and are marked 250.

Class 250 iron flanges are available in both black painted and galvanized.

For Listings/Approval Details and Limitations, visit our website at www.asc−es.com or contact an ASC Engineered Solutions™ Representative.

See following page for standards and specifications.





#### Cast Iron Flanged Fittings and Cast Iron Flanges

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



#### Note:

<sup>\*</sup>Applies to fittings and flanges manufactured with ASTM A126 Class B material only.

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

### Anvil® Cast Iron Flanged Fittings & Flanges



## Companion Flange (Class 250 Extra Heavy) **Fig. 1025**



#### **Standards and Specifications**

Cast Iron Flanges and Flanged Fittings (Class 125 Standard and Class 250 Extra Heavy)

	Dimensions	Material	Galvanizing**	Thread	Pressure Rating
Class 125 (1"-12")	ASME B16.1	ASTM A126 (A) or (B)	ASTM A153	ASME B1.20.1	ASME B16.1
Class 250 (1"-12")	ASME B16.1	ASTM A126 (A) or (B)	ASTM A153	ASME B1.20.1	ASME B16.1

#### Note:

#### 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 ASC Engineered Solutions 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 13½ inch O.D. flange, order: 5 x 13½ inch standard reducing flange.

#### **Dimensions**

Bolt holes for bolts smaller than  $1\frac{3}{4}$  inches (44mm) in diameter are drilled  $\frac{1}{6}$  inch larger than the bolt diameter;  $1\frac{3}{4}$  inch (44mm) and larger bolts have holes drilled  $\frac{1}{4}$  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  $\frac{1}{12}$  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  $\frac{1}{16}$  inch (1.5mm) on sizes larger than 10 NPS (250 DN). Inspection limit of plus or minus  $\frac{1}{16}$  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  $\frac{1}{16}$  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.



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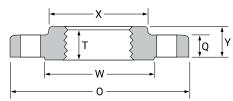
<sup>\*\*</sup> ASTM B633. Type I, SC 4, may be supplied as alternate zinc coating per applicable ASME B16 product standard.

## **Anvil® Cast Iron Flanges**



# Companion Flange (Class 250 Extra Heavy) **Fig. 1025**





	Diameter of Flange	Min. Flange Thickness	Min. Hub Diameter X	Min. Length Thru Hub	Min. Length of Threads T	Diameter of Raised Face W	Unit Weight	
	0	•		Υ			Black	Galvanize
NPS/DN	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Lbs./kg	Lbs./kg
11/4	51/4	3/4	21/2	1	0.76	31/16	3.75	_
32	133	19	64	25	19	78	1.70	_
11/2	61/8	13/16	23/4	11/8	0.87	3%16	5.75	_
40	156	21	70	29	22	90	2.61	
2	61/2	7/8	35/16	1 1/4	1.00	43/16	6.50	6.50
50	165	22	84	32	25	106	2.95	2.95
21/2	71/2	1	3 15/16	17/16	1.14	4 15/16	9.50	9.50
65	191	25	100	37	29	125	4.31	4.31
3	81/4	11/8	45/8	1 9/16	1.20	511/16	12.33	12.33
80	210	29	117	40	30	144	5.59	5.59
4	10	11/4	53/4	13/4	1.30	6 15/16	20.00	20.00
100	254	32	146	44	33	176	9.07	9.07
5	11	13/8	7	17/8	1.41	85/16	24.00	_
125	279	35	178	48	36	211	10.88	_
6	121/2	1 7/16	81/8	1 <sup>15</sup> / <sub>16</sub>	1.51	9 11/16	32.00	_
150	318	37	206	49	38	246	14.51	
8	15	1 5/8	101/4	23/16	1.71	1115/16	51.00	_
200	381	41	260	56	43	303	23.13	_

#### Note:

See first page for pressure-temperature ratings.



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