

SECTION 7

FLANGES, FLANGE UNIONS, COMPANION FLANGES, FLANGED FITTINGS



WARD flange components are made with high quality iron and are designed to handle the tough service that flange components normally experience. Precision machining and thread chamfering allow WARD flange components to be easily installed. Most importantly, quality is built into the design, material and manufacturing of each of WARD's flange components.

Cast Iron flanges may have either a black or galvanized finish.

	FLANGES		HUB	BLIND FLANGES		BOLT HOLES		BOLTING			
NPS	Dia. of Flange	Thickness of Flange (min)	Dia. of Hub (min)	Length of Hub and Threads (min)	Dia. of Port	Wall Thickness	Dia. of Bolt Circle	Dia. of Bolt Holes	Number of Bolts	Dia. of Bolts	Length of Bolts
1	4.25	0.44	1.94	0.69	1.00	0.38	3.12	0.62	4	0.50	2.00
1 1/4	4.62	0.50	2.31	0.81	1.25	0.44	3.50	0.62	4	0.50	2.00
1 1/2	5.00	0.56	2.56	0.88	1.50	0.50	3.88	0.62	4	0.50	2.00
2	6.00	0.62	3.06	1.00	2.00	0.56	4.75	0.75	4	0.62	2.50
2 1/2	7.00	0.69	3.56	1.12	2.50	0.63	5.50	0.75	4	0.62	2.50
3	7.50	0.75	4.25	1.19	3.00	0.69	6.00	0.75	4	0.62	2.50
3 1/2	8.50	0.81	4.81	1.25	3.50	0.75	7.00	0.75	8	0.62	3.00
4	9.00	0.94	5.31	1.31	4.00	0.88	7.50	0.75	8	0.62	3.00
5	10.00	0.94	6.44	1.44	5.00	0.88	8.50	0.88	8	0.75	3.00
6	11.00	1.00	7.56	1.56	6.00	0.94	9.50	0.88	8	0.75	3.50
8	13.50	1.12	9.96	1.75	8.00	1.06	11.75	0.88	8	0.75	3.50
10	16.00	1.19	11.94	1.94	10.00	1.12	14.25	1.00	12	0.88	4.00
12	19.00	1.25	14.06	2.19	12.00	0.81	17.00	1.00	12	0.88	4.00

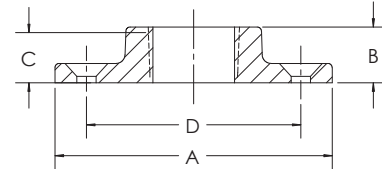
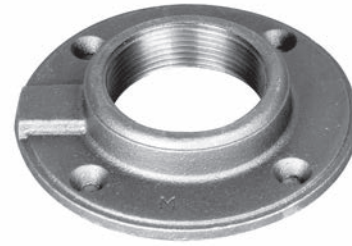
Material: ASTM A126
Dimensions: ANSI / ASME B16.1
 ANSI / ASME B1.20.1
Pressure Ratings: ANSI/ASME B16.1
Coatings: ASTM A153
 ASTM B633
Additional Specifications: UL, ULC AND FM, where applicable

Metalfit flanged fitting made in North America.

MALLEABLE IRON FLOOR FLANGE

NPS	Outside Flange Dia. A	Overall Height B (min)	Length of Threads C (min)	Number of Bolt Holes	Bolt Hole Size	Bolt Circle Dia. D
*1/4	2.37	0.46	0.32	3	0.27	1.86
*3/8	2.93	0.52	0.36	4	0.27	1.93
*1/2	3.00	0.65	0.43	4	0.24	2.10
*3/4	3.25	0.65	0.50	4	0.25	2.31
*1	3.87	0.77	0.58	4	0.27	3.00
*1 1/4	3.87	0.77	0.67	4	0.27	3.00
*1 1/2	4.50	0.99	0.70	4	0.30	3.60
*2	5.50	1.00	0.75	4	0.39	4.25
*2 1/2	5.81	1.06	0.92	4	0.33	4.79
*3	6.37	1.10	0.98	6	0.31	5.18
*4	7.93	1.10	1.05	5	0.38	6.70

* Manufactured to WARD specifications



CAST IRON FLOOR FLANGE

NPS	Outside Flange Dia. A	Overall Height B (min)	Length of Threads C (min)	Number of Bolt Holes	Bolt Hole Size	Bolt Circle Dia. D
*1/4	2.37	0.46	0.32	3	0.27	1.60
*3/8	2.93	0.52	0.36	4	0.27	1.93
*1/2	3.00	0.65	0.43	4	0.24	2.10
*3/4	3.25	0.65	0.50	4	0.25	2.31
*1	3.87	0.77	0.58	4	0.27	3.00
*1 1/4	3.87	0.77	0.67	4	0.27	3.00
*1 1/2	4.50	0.99	0.70	4	0.30	3.60
*2	5.50	1.00	0.75	4	0.39	4.25
*2 1/2	5.81	1.06	0.92	4	0.33	4.79
*3	6.37	1.10	0.98	6	0.31	5.18
*4	7.93	1.10	1.05	5	0.38	6.70

* Manufactured to WARD specifications

