



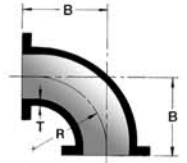
Flanged Fittings

AWWA C110
ANSI A21.10

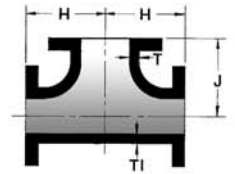


Napac, Inc.

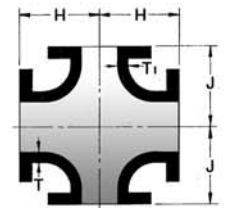
Bends



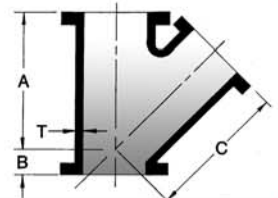
Tees



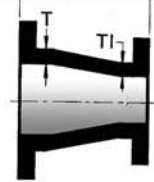
Crosses



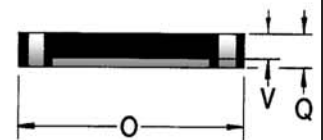
Laterals



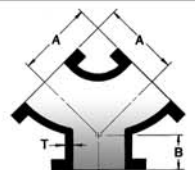
Reducers



Flanges



True Wyes



UNITED BRAND FITTINGS

Our dedication to the mechanical piping industry has given us the opportunity to provide you with a quality comprehensive line of ductile iron flanged fittings exceeding competitive brands.

Manufactured from high strength ductile iron, our flanged fitting series are available in 3"~48" sizes in a variety of elbows, tees, crosses, laterals, reducers, and blind flanges. All are manufactured in strict accordance with AWWA C110, ANSI A21.10.

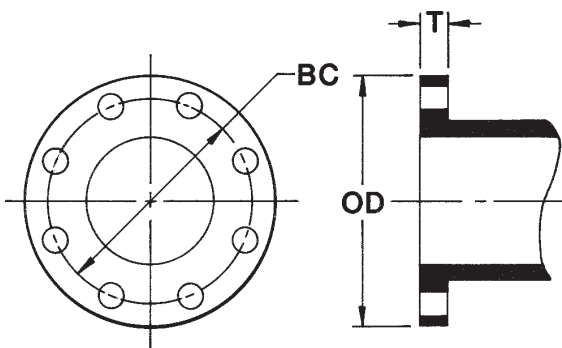
Material: Ductile Iron, ASTM A536

Flange: Faced and drilled in accordance with ANSI B16.1 Class 125

Lining: The standard lining is cement mortar with bitumen overlay in accordance with AWWA C104, ANSI A21.4. Other optional linings such as fusion bonded epoxy, glass etc., are also available.

Coating: The standard coating is a red color, zinc rich primer. Other optional coatings are also available.

Flange Details - Class 125 (ANSI B16.1)



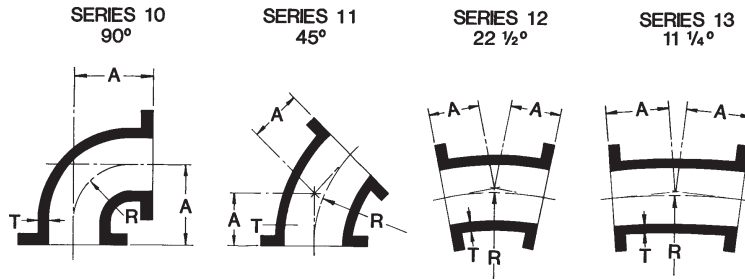
Size	O.D.	B.C.	T	Bolt Hole Dia.	Bolt Dia. & Length	No. of Bolts
2	6.00	4.75	5/8	3/4	5/8 x 2 1/2	4
2 1/2	7.00	5.50	11/16	3/4	5/8 x 2 1/2	4
3	7.50	6.00	3/4	3/4	5/8 x 2 1/2	4
4	9.00	7.50	15/16	3/4	5/8 x 3	8
5	10.00	8.50	15/16	7/8	3/4 x 3 1/2	8
6	11.00	9.50	1	7/8	3/4 x 3 1/2	8
8	13.50	11.75	1 1/8	7/8	3/4 x 3 1/2	8
10	16.00	14.25	1 3/16	1	7/8 x 4	12
12	19.00	17.00	1 1/4	1	7/8 x 4	12
14	21.00	18.75	1 3/8	1 1/8	1 x 4 1/2	12
16	23.50	21.25	1 7/16	1 1/8	1 x 4 1/2	16
18	25.00	22.75	1 9/16	1 1/4	1 1/8 x 5	16
20	27.50	25.00	1 11/16	1 1/4	1 1/8 x 5	20
24	32.00	29.50	1 7/8	1 3/8	1 1/4 x 5 1/2	20
30	38.75	36.00	2 1/8	1 3/8	1 1/4 x 6 1/4	28
36	46.00	42.75	2 3/8	1 5/8	1 1/2 x 7	32
42	53.00	49.50	2 5/8	1 5/8	1 1/2 x 7 1/2	36
48	59.50	56.00	2 3/4	1 5/8	1 1/2 x 7 3/4	44

All dimensional data in inches.

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

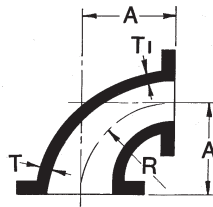
Bends

AWWA C110, ANSI A21.10



Size	90° Bend				45° Bend				22 1/2° Bend				11 1/4° Bend				T
	Part No.	A	R	Wgt.	Part No.	A	R	Wgt.	Part No.	A	R	Wgt.	Part No.	A	R	Wgt.	
3	W-10F-0303-D	5.5	4.0	25	W-11F-0303-D	3.0	3.62	20	W-12F-0303-D	3.0	7.56	20	W-13F-0303-D	3.0	15.25	20	.48
4	W-10F-0404-D	6.5	4.5	45	W-11F-0404-D	4.0	4.81	40	W-12F-0404-D	4.0	10.06	40	W-13F-0404-D	4.0	20.31	40	.52
6	W-10F-0606-D	8.0	6.0	65	W-11F-0606-D	5.0	7.25	55	W-12F-0606-D	5.0	15.06	55	W-13F-0606-D	5.0	30.50	55	.55
8	W-10F-0808-D	9.0	7.0	105	W-11F-0808-D	5.5	8.44	90	W-12F-0808-D	5.5	17.62	90	W-13F-0808-D	5.5	35.50	90	.60
10	W-10F-1010-D	11.0	9.0	165	W-11F-1010-D	6.5	10.88	130	W-12F-1010-D	6.5	22.62	135	W-13F-1010-D	6.5	45.69	135	.68
12	W-10F-1212-D	12.0	10.0	235	W-11F-1212-D	7.5	13.25	195	W-12F-1212-D	7.5	27.62	205	W-13F-1212-D	7.5	55.81	205	.75
14	W-10F-1414-D	14.0	11.5	290	W-11F-1414-D	7.5	12.06	220	W-12F-1414-D	7.5	25.12	225	W-13F-1414-D	7.5	50.75	225	.66
16	W-10F-1616-D	15.0	12.5	370	W-11F-1616-D	8.0	13.25	280	W-12F-1616-D	8.0	27.62	285	W-13F-1616-D	8.0	55.81	285	.70
18	W-10F-1818-D	16.5	14.0	450	W-11F-1818-D	8.5	14.50	325	W-12F-1818-D	8.5	30.19	335	W-13F-1818-D	8.5	60.94	335	.75
20	W-10F-2020-D	18.0	15.5	580	W-11F-2020-D	9.5	16.88	430	W-12F-2020-D	9.5	35.19	435	W-13F-2020-D	9.5	71.06	435	.80
24	W-10F-2424-D	22.0	18.5	900	W-11F-2424-D	11.0	18.12	630	W-12F-2424-D	11.0	37.69	640	W-13F-2424-D	11.0	76.12	645	.89
30	W-10F-3030-D	25.0	21.5	1430	W-11F-3030-D	15.0	27.75	1120	W-12F-3030-D	15.0	57.81	1135	W-13F-3030-D	15.0	116.75	1150	1.03
36	W-10F-3636-D	28.0	24.5	2135	W-11F-3636-D	18.0	35.00	1755	W-12F-3636-D	18.0	72.88	1790	W-13F-3636-D	18.0	147.25	1805	1.15
42	W-10F-4242-D	31.0	27.5	3055	W-11F-4242-D	21.0	42.25	2600	W-12F-4242-D	21.0	88.00	2665	W-13F-4242-D	21.0	177.69	2680	1.28
48	W-10F-4848-D	34.0	30.5	4095	W-11F-4848-D	24.0	49.50	3580	W-12F-4848-D	24.0	103.06	3665	W-13F-4848-D	24.0	208.12	3695	1.42

90° Reducing Bends



Size	Part No.	A	R	T	T1	Wgt.
4 x 3	W-10F-0403-D	6.5	4.5	.52	.48	33
6 x 3	W-10F-0603-D	8.0	6.0	.55	.48	45
6 x 4	W-10F-0604-D	8.0	6.0	.55	.52	55
8 x 4	W-10F-0804-D	9.0	7.0	.60	.52	75
8 x 6	W-10F-0806-D	9.0	7.0	.60	.55	85
10 x 4	W-10F-1004-D	11.0	9.0	.68	.52	110
10 x 6	W-10F-1006-D	11.0	9.0	.68	.55	135
10 x 8	W-10F-1008-D	11.0	9.0	.68	.60	150
12 x 4	W-10F-1204-D	12.0	10.0	.75	.52	140
12 x 6	W-10F-1206-D	12.0	10.0	.75	.55	160
12 x 8	W-10F-1208-D	12.0	10.0	.75	.60	180
12 x 10	W-10F-1210-D	12.0	10.0	.75	.68	210
14 x 6	W-10F-1406-D	14.0	11.5	.66	.55	144
14 x 8	W-10F-1408-D	14.0	11.5	.66	.60	200
14 x 10	W-10F-1410-D	14.0	11.5	.66	.68	245
14 x 12	W-10F-1412-D	14.0	11.5	.66	.75	270
16 x 6	W-10F-1606-D	15.0	12.5	.70	.55	220
16 x 8	W-10F-1608-D	15.0	12.5	.70	.60	240
16 x 10	W-10F-1610-D	15.0	12.5	.70	.68	280
16 x 12	W-10F-1612-D	15.0	12.5	.70	.75	310
16 x 14	W-10F-1614-D	15.0	12.5	.70	.66	330
18 x 6	W-10F-1806-D	16.5	14.0	.75	.70	260
18 x 8	W-10F-1808-D	16.5	14.0	.75	.60	280
18 x 10	W-10F-1810-D	16.5	14.0	.75	.68	320
18 x 12	W-10F-1812-D	16.5	14.0	.75	.75	350
18 x 14	W-10F-1814-D	16.5	14.0	.75	.66	370
18 x 16	W-10F-1816-D	16.5	14.0	.75	.70	410

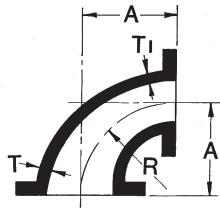
Size	Part No.	A	R	T	T1	Wgt.
20 x 6	W-10F-2006-D	18.0	15.5	.80	.55	320
20 x 8	W-10F-2008-D	18.0	15.5	.80	.60	345
20 x 10	W-10F-2010-D	18.0	15.5	1.03	.68	385
20 x 12	W-10F-2012-D	18.0	15.5	.80	.75	415
20 x 14	W-10F-2014-D	18.0	15.5	.80	.66	435
20 x 16	W-10F-2016-D	18.0	15.5	.80	.70	475
20 x 18	W-10F-2018-D	18.0	15.5	.80	.75	515
24 x 6	W-10F-2406-D	22.0	18.5	.89	.55	480
24 x 8	W-10F-2408-D	22.0	18.5	.89	.60	505
24 x 10	W-10F-2410-D	22.0	18.5	.89	.68	545
24 x 12	W-10F-2412-D	22.0	18.5	.89	.75	575
24 x 14	W-10F-2414-D	22.0	18.5	.89	.66	595
24 x 16	W-10F-2416-D	22.0	18.5	.89	.70	635
24 x 18	W-10F-2418-D	22.0	18.5	.89	.75	675
24 x 20	W-10F-2420-D	22.0	18.5	.89	.80	740
30 x 12	W-10F-3012-D	25.0	21.5	1.03	.75	840
30 x 14	W-10F-3014-D	25.0	21.5	1.37	.82	860
30 x 16	W-10F-3016-D	25.0	21.5	1.03	.70	900
30 x 18	W-10F-3018-D	25.0	21.5	1.03	.75	940
30 x 20	W-10F-3020-D	25.0	21.5	1.03	.80	1005
30 x 24	W-10F-3024-D	25.0	21.5	1.03	.89	1165
36 x 12	W-10F-3612-D	28.0	24.5	1.15	.75	1195
36 x 14	W-10F-3614-D	28.0	24.5	1.15	.66	1215
36 x 16	W-10F-3616-D	28.0	24.5	1.15	.70	1255
36 x 18	W-10F-3618-D	28.0	24.5	1.15	.75	1295
36 x 20	W-10F-3620-D	28.0	24.5	1.15	.80	1360
36 x 24	W-10F-3624-D	28.0	24.5	1.15	.89	1520

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

AWWA C110, ANSI A21.10

90° Reducing Bends (cont.)

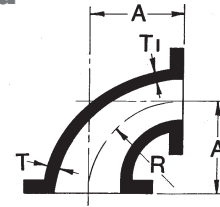
SERIES 10



Size	Part No.	A	R	T	T1	Wgt.
36 x 30	W-10F-3630-D	28.0	24.5	1.15	1.03	1785
42 x 12	W-10F-4212-D	31.0	27.5	1.28	.75	1655
42 x 14	W-10F-4214-D	31.0	27.5	1.28	.66	1675
42 x 16	W-10F-4216-D	31.0	27.5	1.28	.70	1715
42 x 18	W-10F-4218-D	31.0	27.5	1.28	.75	1755
42 x 20	W-10F-4220-D	31.0	27.5	1.28	.80	1820
42 x 24	W-10F-4224-D	31.0	27.5	1.28	.89	1980
42 x 30	W-10F-4230-D	31.0	27.5	1.28	1.03	2245
42 x 36	W-10F-4236-D	31.0	27.5	1.28	1.15	2800
48 x 12	W-10F-4812-D	34.0	30.5	1.42	.75	2178
48 x 14	W-10F-4814-D	34.0	30.5	1.42	.66	2195
48 x 16	W-10F-4816-D	34.0	30.5	1.42	.70	2235
48 x 18	W-10F-4818-D	34.0	30.5	1.42	.75	2275
48 x 20	W-10F-4820-D	34.0	30.5	1.42	.80	2340
48 x 24	W-10F-4824-D	34.0	30.5	1.42	.89	2500
48 x 30	W-10F-4830-D	34.0	30.5	1.42	1.03	2765
48 x 36	W-10F-4836-D	34.0	30.5	1.42	1.15	3115
48 x 42	W-10F-4842-D	34.0	30.5	1.42	1.28	3580

90° Long Radius Reducing Bend

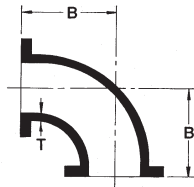
SERIES 15R



Size	Part No.	A	R	T	T1	Wgt.
4 x 3	W-15F-0403-D	9.0	9.0	.52	.48	38
6 x 3	W-15F-0603-D	11.5	9.5	.55	.48	55
6 x 4	W-15F-0604-D	11.5	9.5	.55	.52	87
8 x 4	W-15F-0804-D	14.0	12.0	.60	.52	95
8 x 6	W-15F-0806-D	14.0	12.0	.60	.55	110
10 x 4	W-15F-1004-D	16.5	14.5	.68	.52	135
10 x 6	W-15F-1006-D	16.5	14.5	.68	.55	150
10 x 8	W-15F-1008-D	16.5	14.5	.68	.60	175
12 x 4	W-15F-1204-D	19.0	17.0	.75	.52	190
12 x 6	W-15F-1206-D	19.0	17.0	.75	.55	205
12 x 8	W-15F-1208-D	19.0	17.0	.75	.60	235
12 x 10	W-15F-1210-D	19.0	17.0	.75	.68	250
14 x 8	W-15F-1408-D	21.5	19.0	.66	.60	285
14 x 10	W-15F-1410-D	21.5	19.0	.66	.68	325
14 x 12	W-15F-1412-D	21.5	19.0	.66	.75	370
16 x 8	W-15F-1608-D	24.0	21.5	.70	.60	395
16 x 10	W-15F-1610D	24.0	21.5	.70	.68	420
16 x 12	W-15F-1612-D	24.0	21.5	.70	.75	445
16 x 14	W-15F-1614-D	24.0	21.5	.70	.66	460
18 x 10	W-15F-1810-D	26.5	24.0	.75	.68	465
18 x 12	W-15F-1812-D	26.5	24.0	.75	.75	585
18 x 14	W-15F-1814-D	26.5	24.0	.75	.66	535
18 x 16	W-15F-1816-D	26.5	24.0	.75	.70	585
20 x 10	W-15F-2010-D	29.0	26.5	.80	.68	640
20 x 12	W-15F-2012-D	29.0	26.5	.80	.75	630
20 x 14	W-15F-2014-D	29.0	26.5	.80	.66	770
20 x 16	W-15F-2016-D	29.0	26.5	.80	.70	695
20 x 18	W-15F-2018-D	29.0	26.5	.80	.75	905
24 x 12	W-15F-2412-D	34.0	30.5	.89	.75	855
24 x 14	W-15F-2414-D	34.0	30.5	.89	.66	875
24 x 16	W-15F-2416-D	34.0	30.5	.89	.70	940
24 x 18	W-15F-2418-D	34.0	30.5	.89	.75	1230
24 x 20	W-15F-2420-D	34.0	30.5	.89	.80	1080
30 x 16	W-15F-3016-D	41.5	38.0	1.03	.70	1400
30 x 20	W-15F-3020-D	41.5	38.0	1.03	.80	1575
30 x 24	W-15F-3024-D	41.5	38.0	1.03	.89	2230
36 x 20	W-15F-3620-D	49.0	45.5	1.15	.80	2835
36 x 24	W-15F-3624-D	49.0	45.5	1.15	.89	3140
36 x 30	W-15F-3630-D	49.0	45.5	1.15	1.03	3675
42 x 30	W-15F-4230-D	56.5	53.0	1.28	1.03	4905
42 x 36	W-15F-4236-D	56.5	56.5	1.28	1.15	5270
48 x 30	W-15F-4830-D	64.0	60.5	1.42	1.03	6305
48 x 36	W-15F-4836-D	64.0	60.5	1.42	1.15	7145
48 x 42	W-15F-4842-D	64.0	60.5	1.42	1.28	8065

90° Long Radius Bend

SERIES 15

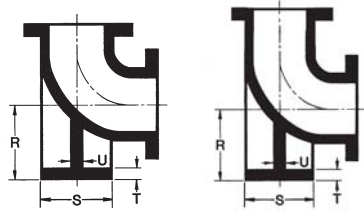


Size	Part No.	B	T	Wgt.
3	W-15F-0303-D	7.75	.48	30
4	W-15F-0404-D	9.0	.52	50
6	W-15F-0606-D	11.5	.55	80
8	W-15F-0808-D	14.0	.60	140
10	W-15F-1010-D	16.5	.68	215
12	W-15F-1212-D	19.0	.75	325
14	W-15F-1414-D	21.5	.66	385
16	W-15F-1616-D	24.0	.70	505
18	W-15F-1818-D	26.5	.75	630
20	W-15F-2020-D	29.0	.80	810
24	W-15F-2424-D	34.0	.89	1240
30	W-15F-3030-D	41.5	1.03	2105
36	W-15F-3636-D	49.0	1.15	3285
42	W-15F-4242-D	56.5	1.28	4865
48	W-15F-4848-D	64.0	1.42	6790

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

Base Bend & Long Radius Base Bend

SERIES 16 (Standard), SERIES 21 (Long Radius)

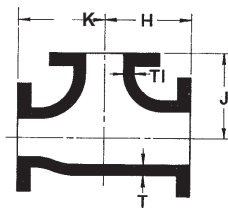


Size	Part No. (Standard)	Part No. (Long Radius)	R	S (dia.)	T	U	Wgt. (Std.)	Wgt. (Long)
3	W-16F-0303-D	W-21F-0303-D	4.88	5.0	.56	.50	35	42
4	W-16F-0404-D	W-21F-0404-D	5.50	6.0	.62	.50	55	65
6	W-16F-0606-D	W-21F-0606-D	7.00	7.0	.69	.62	85	110
8	W-16F-0808-D	W-21F-0808-D	8.38	9.0	.94	.88	145	195
10	W-16F-1010-D	W-21F-1010-D	9.75	9.0	.94	.88	210	280
12	W-16F-1212-D	W-21F-1212-D	11.25	11.0	1.00	1.00	300	420
14	W-16F-1414-D	W-21F-1414-D	12.50	11.0	1.00	1.00	360	490
16	W-16F-1616-D	W-21F-1616-D	13.75	11.0	1.00	1.00	445	615
18	W-16F-1818-D	W-21F-1818-D	15.00	13.5	1.12	1.12	565	800
20	W-16F-2020-D	W-21F-2020-D	16.00	13.5	1.12	1.12	700	985
24	W-16F-2424-D	W-21F-2424-D	18.50	13.5	1.12	1.12	1035	1430
30	W-16F-3030-D	W-21F-3030-D	23.00	16.0	1.19	1.15	1625	2400
36	W-16F-3636-D	W-21F-3636-D	26.00	19.0	1.25	1.15	2385	3680
42	W-16F-4242-D	W-21F-4242-D	30.00	23.5	1.44	1.28	3485	5515
48	W-16F-4848-D	W-21F-4848-D	34.00	25.0	1.56	1.42	4810	7635

Reducing Tee

(on run and/or branch)

SERIES 26



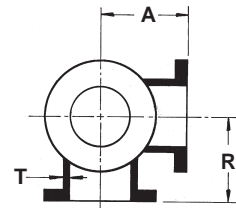
Size	Part No.	H	K	J	T	T1	Wgt.
4 x 3 x 4	W-26F-040304-D	8.0	8.0	8.0	.52	.52	60
6 x 4 x 4	W-26F-060404-D	8.0	8.0	8.0	.55	.60	90
6 x 4 x 6	W-26F-060406-D	8.0	8.0	8.0	.55	.52	95
8 x 4 x 8	W-26F-080408-D	9.0	9.0	9.0	.60	.52	140
8 x 6 x 4	W-26F-080604-D	9.0	9.0	9.0	.60	.55	125
8 x 6 x 6	W-26F-080606-D	9.0	9.0	9.0	.60	.55	145
8 x 6 x 8	W-26F-080608-D	9.0	9.0	9.0	.60	.55	180
10 x 8 x 8	W-26F-100808-D	11.0	11.0	11.0	.80	.55	232
10 x 8 x 10	W-26F-100810-D	11.0	11.0	11.0	.80	.60	262
10 x 10 x 12	W-26F-101012-D	12.0	12.0	12.0	.87	.80	380
12 x 8 x 8	W-26F-120808-D	12.0	12.0	12.0	.81	.62	298
12 x 10 x 10	W-26F-121010-D	12.0	12.0	12.0	.81	.75	340
12 x 10 x 12	W-26F-121012-D	12.0	12.0	12.0	.81	.75	365

Other sizes available upon request.

90° Side Outlet Bend

AWWA C110, ANSI A21.10

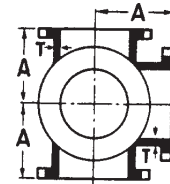
SERIES 18



Size	Part No.	A	R	T	Wgt.
4	W-18F-0404-D	6.5	6.5	.50	60
6	W-18F-0606-D	8.0	8.0	.56	95
8	W-18F-0808-D	9.0	9.0	.62	150
10	W-18F-1010-D	11.0	11.0	.75	235
12	W-18F-1212-D	12.0	12.0	.81	335
14	W-18F-1414-D	14.0	14.0	.66	406
16	W-18F-1616-D	15.0	15.0	.70	595
18	W-18F-1818-D	16.5	16.5	.75	730
20	W-18F-2020-D	18.0	18.0	.80	936
24	W-18F-2424-D	22.0	22.0	.89	1480
30	W-18F-3030-D	25.0	25.0	1.03	2300
36	W-18F-3636-D	28.0	28.0	1.15	2700
42	W-18F-4242-D	31.0	31.0	1.28	3600
48	W-18F-4848-D	34.0	34.0	1.42	5125

Side Outlet Tee

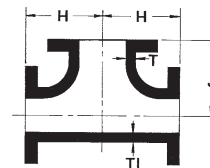
SERIES 19



Size	Part No.	A	T	Wgt.
3	W-19F-0303-D	5.5	.37	50
4	W-19F-0404-D	6.5	.50	80
6	W-19F-0606-D	8.0	.56	135
8	W-19F-0808-D	9.0	.62	210
10	W-19F-1010-D	11.0	.68	330
12	W-19F-1212-D	12.0	.75	470
14	W-19F-1414-D	14.0	.66	650
16	W-19F-1616-D	15.0	.70	850
18	W-19F-1818-D	16.5	.75	1040
20	W-19F-2020-D	18.0	.80	1330
24	W-19F-2424-D	22.0	.89	2080

Bullhead Tee

SERIES 27



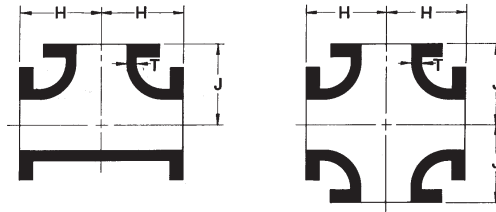
Size	Part No.	H	J	T	T1	Wgt.
4 x 4 x 6	W-27F-040406-D	8.0	8.0	.52	.55	88
6 x 6 x 8	W-27F-060608-D	9.0	9.0	.55	.60	142
8 x 8 x 10	W-27F-080810-D	11.0	11.0	.60	.68	240
10 x 10 x 12	W-27F-101012-D	12.0	12.0	.80	.87	340

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

AWWA C110, ANSI A21.10

Tees & Crosses

SERIES 20 (Tee), SERIES 35 (Cross)



Size	Part No.		H	J	T	T1	Wgt.	
	Tee	Cross					Tee	Cross
3	W-20F-0303-D	W-35F-0303-D	5.5	5.5	.48	.48	40	50
4	W-20F-0404-D	W-35F-0404-D	6.5	6.5	.52	.52	65	80
4 x 3	W-20F-0403-D	W-35F-0403-D	6.5	6.5	.52	.48	60	70
6	W-20F-0606-D	W-35F-0606-D	8.0	8.0	.55	.55	95	120
6 x 3	W-20F-0603-D	W-35F-0603-D	8.0	8.0	.55	.48	85	95
6 x 4	W-20F-0604-D	W-35F-0604-D	8.0	8.0	.55	.52	90	110
8	W-20F-0808-D	W-35F-0808-D	9.0	9.0	.60	.60	155	195
8 x 4	W-20F-0804-D	W-35F-0804-D	9.0	9.0	.60	.52	140	155
8 x 6	W-20F-0806-D	W-35F-0806-D	9.0	9.0	.60	.55	145	165
10	W-20F-1010-D	W-35F-1010-D	11.0	11.0	.80	.80	270	330
10 x 4	W-20F-1004-D	W-35F-1004-D	11.0	11.0	.68	.52	205	220
10 x 6	W-20F-1006-D	W-35F-1006-D	11.0	11.0	.68	.55	215	240
10 x 8	W-20F-1008-D	W-35F-1008-D	11.0	11.0	.68	.60	225	265
12	W-20F-1212-D	W-35F-1212-D	12.0	12.0	.87	.87	385	460
12 x 4	W-20F-1204-D	W-35F-1204-D	12.0	12.0	.75	.52	290	310
12 x 6	W-20F-1206-D	W-35F-1206-D	12.0	12.0	.75	.55	295	320
12 x 8	W-20F-1208-D	W-35F-1208-D	12.0	12.0	.75	.60	310	345
12 x 10	W-20F-1210-D	W-35F-1210-D	12.0	12.0	.87	.80	360	345
14	W-20F-1414-D	W-35F-1414-D	14.0	14.0	.66	.75	435	530
14 x 6	W-20F-1406-D	W-35F-1406-D	14.0	14.0	.66	.55	375	400
14 x 8	W-20F-1408-D	W-35F-1408-D	14.0	14.0	.66	.60	390	425
14 x 10	W-20F-1410-D	W-35F-1410-D	14.0	14.0	.66	.68	400	460
14 x 12	W-20F-1412-D	W-35F-1412-D	14.0	14.0	.66	.75	425	505
16	W-20F-1616-D	W-35F-1616-D	15.0	15.0	.70	.70	550	665
16 x 6	W-20F-1606-D	W-35F-1606-D	15.0	15.0	.70	.55	465	490
16 x 8	W-20F-1608-D	W-35F-1608-D	15.0	15.0	.70	.60	475	520
16 x 10	W-20F-1610-D	W-35F-1610-D	15.0	15.0	.70	.68	495	555
16 x 12	W-20F-1612-D	W-35F-1612-D	15.0	15.0	.70	.75	520	605
16 x 14	W-20F-1614-D	W-35F-1614-D	15.0	15.0	.70	.66	530	620
18	W-20F-1818-D	W-35F-1818-D	16.5	16.5	.75	.75	665	795
18 x 6	W-20F-1806-D	W-35F-1806-D	13.0	15.5	.75	.55	480	505
18 x 8	W-20F-1808-D	W-35F-1808-D	13.0	15.5	.75	.60	495	535
18 x 10	W-20F-1810-D	W-35F-1810-D	13.0	15.5	.75	.68	510	560
18 x 12	W-20F-1812-D	W-35F-1812-D	13.0	15.5	.75	.75	535	610
18 x 14	W-20F-1814-D	W-35F-1814-D	16.5	16.5	.75	.66	630	720
18 x 16	W-20F-1816-D	W-35F-1816-D	16.5	16.5	.75	.70	650	765
20	W-20F-2020-D	W-35F-2020-D	18.0	18.0	.80	.80	855	1016
20 x 6	W-20F-2006-D	W-35F-2006-D	14.0	17.0	.80	.55	610	635
20 x 8	W-20F-2008-D	W-35F-2008-D	14.0	17.0	.80	.60	620	665
20 x 10	W-20F-2010-D	W-35F-2010-D	14.0	17.0	.80	.68	635	685
20 x 12	W-20F-2012-D	W-35F-2012-D	14.0	17.0	.80	.75	660	735
20 x 14	W-20F-2014-D	W-35F-2014-D	14.0	17.0	.80	.66	665	745
20 x 16	W-20F-2016-D	W-35F-2016-D	18.0	18.0	.80	.70	810	915

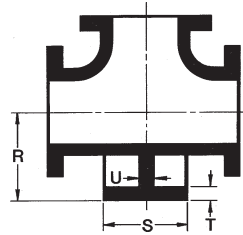
Size	Part No.		H	J	T	T1	Wgt.	
	Tee	Cross					Tee	Cross
20 x 18	W-20F-2018-D	W-35F-2018-D	18.0	18.0	.80	0.75	820	945
24	W-20F-2424-D	W-35F-2424-D	22.0	22.0	.89	0.89	1330	1570
24 x 6	W-20F-2406-D	W-35F-2406-D	15.0	19.0	.89	0.55	845	875
24 x 8	W-20F-2408-D	W-35F-2408-D	15.0	19.0	.89	0.60	860	895
24 x 10	W-20F-2410-D	W-35F-2410-D	15.0	19.0	.89	0.68	880	930
24 x 12	W-20F-2412-D	W-35F-2412-D	15.0	19.0	.89	0.75	890	960
24 x 14	W-20F-2414-D	W-35F-2414-D	15.0	19.0	.89	0.66	900	975
24 x 16	W-20F-2416-D	W-35F-2416-D	15.0	19.0	.89	0.70	915	1010
24 x 18	W-20F-2418-D	W-35F-2418-D	22.0	22.0	.89	0.75	1220	1365
24 x 20	W-20F-2420-D	W-35F-2420-D	22.0	22.0	.89	0.80	1255	1430
30	W-20F-3030-D	W-35F-3030-D	25.0	25.0	1.03	1.03	2150	2500
30 x 12	W-20F-3012-D	W-35F-3012-D	18.0	23.0	1.03	0.75	1450	1565
30 x 14	W-20F-3014-D	W-35F-3014-D	18.0	23.0	1.03	0.66	1480	1570
30 x 16	W-20F-3016-D	W-35F-3016-D	18.0	23.0	1.03	0.70	1505	1605
30 x 18	W-20F-3018-D	W-35F-3018-D	18.0	23.0	1.03	0.75	1515	1615
30 x 20	W-20F-3020-D	W-35F-3020-D	18.0	23.0	1.03	0.80	1540	1670
30 x 24	W-20F-3024-D	W-35F-3024-D	25.0	25.0	1.03	0.89	2025	2245
36	W-20F-3636-D	W-35F-3636-D	28.0	28.0	1.15	1.15	3160	3620
36 x 12	W-20F-3612-D	W-35F-3612-D	20.0	26.0	1.15	0.75	2170	2240
36 x 14	W-20F-3614-D	W-35F-3614-D	20.0	26.0	1.15	0.66	2175	2240
36 x 16	W-20F-3616-D	W-35F-3616-D	20.0	26.0	1.15	0.70	2185	2270
36 x 18	W-20F-3618-D	W-35F-3618-D	20.0	26.0	1.15	0.75	2190	2280
36 x 20	W-20F-3620-D	W-35F-3620-D	20.0	26.0	1.15	0.80	2210	2325
36 x 24	W-20F-3624-D	W-35F-3624-D	20.0	26.0	1.15	0.89	2255	2405
36 x 30	W-20F-3630-D	W-35F-3630-D	28.0	28.0	1.15	1.03	3000	3300
42	W-20F-4242-D	W-35F-4242-D	31.0	31.0	1.78	1.78	4470	5065
42 x 12	W-20F-4212-D	W-35F-4212-D	23.0	30.0	1.28	0.75	3165	3240
42 x 14	W-20F-4214-D	W-35F-4214-D	23.0	30.0	1.28	0.66	3170	3240
42 x 16	W-20F-4216-D	W-35F-4216-D	23.0	30.0	1.28	0.70	3180	3270
42 x 18	W-20F-4218-D	W-35F-4218-D	23.0	30.0	1.28	0.75	3180	3275
42 x 20	W-20F-4220-D	W-35F-4220-D	23.0	30.0	1.28	0.80	3205	3320
42 x 24	W-20F-4224-D	W-35F-4224-D	23.0	30.0	1.28	0.89	3245	3395
42 x 30	W-20F-4230-D	W-35F-4230-D	31.0	31.0	1.28	1.03	4125	4375
42 x 36	W-20F-4236-D	W-35F-4236-D	31.0	31.0	1.28	1.15	4265	4655
48	W-20F-4848-D	W-35F-4848-D	34.0	34.0	1.96	1.96	5900	6570
48 x 12	W-20F-4812-D	W-35F-4812-D	26.0	34.0	1.42	0.75	4315	4390
48 x 14	W-20F-4814-D	W-35F-4814-D	26.0	34.0	1.42	0.66	4315	4385
48 x 16	W-20F-4816-D	W-35F-4816-D	26.0	34.0	1.42	0.70	4330	4415
48 x 18	W-20F-4818-D	W-35F-4818-D	26.0	34.0	1.42	0.75	4330	4420
48 x 20	W-20F-4820-D	W-35F-4820-D	26.0	34.0	1.42	0.80	4350	4460
48 x 24	W-20F-4824-D	W-35F-4824-D	26.0	34.0	1.42	0.89	4385	4535
48 x 30	W-20F-4830-D	W-35F-4830-D	26.0	34.0	1.42	1.03	4455	4670
48 x 36	W-20F-4836-D	W-35F-4836-D	34.0	34.0	1.42	1.15	5555	5880
48 x 42	W-20F-4842-D	W-35F-4842-D	34.0	34.0	1.42	1.42	5720	6215

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

AWWA C110, ANSI A21.10

Base Tee

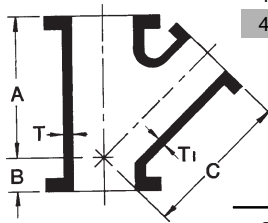
SERIES 17



Size	Part No.	R	S (dia.)	T	U	Wgt.
3	W-17F-0303-D	4.88	5.0	.56	.50	45
4	W-17F-0404-D	5.50	6.0	.62	.50	75
6	W-17F-0606-D	7.00	7.0	.69	.62	110
8	W-17F-0808-D	8.38	9.0	.94	.88	185
10	W-17F-1010-D	9.75	9.0	.94	.88	300
12	W-17F-1212-D	11.25	11.0	1.00	1.00	430
14	W-17F-1414-D	12.50	11.0	1.00	1.00	485
16	W-17F-1616-D	13.75	11.0	1.00	1.00	600
18	W-17F-1818-D	15.00	13.5	1.12	1.12	740
20	W-17F-2020-D	16.00	13.5	1.12	1.12	930
24	W-17F-2424-D	18.50	13.5	1.12	1.12	1410
30	W-17F-3030-D	23.00	16.0	1.19	1.15	2270
36	W-17F-3636-D	26.00	19.0	1.25	1.15	3320
42	W-17F-4242-D	30.00	23.5	1.44	1.28	4740
48	W-17F-4848-D	34.00	25.0	1.56	1.42	8235

45° Lateral

SERIES 30



Size	Part No.	A	B	C	T	T1	Wgt.
3	W-30F-0303-D	10.0	3.0	10.0	.48	.48	45
4	W-30F-0404-D	12.0	3.0	12.0	.52	.52	75
4 x 3	W-30F-0403-D	12.0	3.0	12.0	.52	.48	65
6	W-30F-0606-D	14.5	3.5	14.5	.55	.55	120
6 x 3	W-30F-0603-D	14.5	3.5	14.5	.55	.48	100
6 x 4	W-30F-0604-D	14.5	3.5	14.5	.55	.52	105
8	W-30F-0808-D	17.5	4.5	17.5	.60	.60	200
8 x 4	W-30F-0804-D	17.5	4.5	17.5	.60	.52	165
8 x 6	W-30F-0806-D	17.5	4.5	17.5	.60	.55	175
10	W-30F-1010-D	20.5	5.0	20.5	.80	.80	336
10 x 4	W-30F-1004-D	20.5	5.0	20.5	.68	.52	235
10 x 6	W-30F-1006-D	20.5	5.0	20.5	.68	.55	250
10 x 8	W-30F-1008-D	20.5	5.0	20.5	.68	.60	270
12	W-30F-1212-D	24.5	5.5	24.5	.87	.87	515
12 x 4	W-30F-1204-D	24.5	5.5	24.5	.75	.52	350
12 x 6	W-30F-1206-D	24.5	5.5	24.5	.75	.55	365
12 x 8	W-30F-1208-D	24.5	5.5	24.5	.75	.60	390
12 x 10	W-30F-1210-D	24.5	5.5	24.5	.87	.80	470
14	W-30F-1414-D	27.0	6.0	27.0	.66	.66	605
14 x 6	W-30F-1406-D	27.0	6.0	27.0	.66	.55	475
14 x 8	W-30F-1408-D	27.0	6.0	27.0	.66	.60	500
14 x 10	W-30F-1410-D	27.0	6.0	27.0	.66	.68	525
14 x 12	W-30F-1412-D	27.0	6.0	27.0	.66	.75	570
16	W-30F-1616-D	30.0	6.5	30.0	.70	.70	805
16 x 6	W-30F-1606-D	30.0	6.5	30.0	.70	.55	620
16 x 8	W-30F-1608-D	30.0	6.5	30.0	.70	.60	645
16 x 10	W-30F-1610-D	30.0	6.5	30.0	.70	.68	675
16 x 12	W-30F-1612-D	30.0	6.5	30.0	.70	.75	715
16 x 14	W-30F-1614-D	30.0	6.5	30.0	.70	.66	755
18	W-30F-1818-D	32.0	7.0	32.0	.75	.75	980
18 x 6	W-30F-1806-D	32.0	7.0	32.0	.75	.55	765
18 x 8	W-30F-1808-D	32.0	7.0	32.0	.75	.60	780
18 x 10	W-30F-1810-D	32.0	7.0	32.0	.75	.68	810
18 x 12	W-30F-1812-D	32.0	7.0	32.0	.75	.75	850
18 x 14	W-30F-1814-D	32.0	7.0	32.0	.75	.66	885
18 x 16	W-30F-1816-D	32.0	7.0	32.0	.75	.70	905
20	W-30F-2020-D	35.0	8.0	35.0	.80	.80	1265
20 x 8	W-30F-2008-D	35.0	8.0	35.0	.80	.60	995
20 x 10	W-30F-2010-D	35.0	8.0	35.0	.80	.68	1025
20 x 12	W-30F-2012-D	35.0	8.0	35.0	.80	.75	1055
20 x 14	W-30F-2014-D	35.0	8.0	35.0	.80	.66	1110
20 x 16	W-30F-2016-D	35.0	8.0	35.0	.80	.70	1150

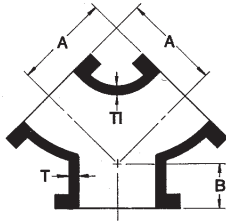
Size	Part No.	A	B	C	T	T1	Wgt.
20 x 18	W-30F-2018-D	35.0	8.0	35.0	.80	.75	1200
24	W-30F-2424-D	40.5	9.0	40.5	.89	.89	1905
24 x 8	W-30F-2408-D	40.5	9.0	40.5	.89	.60	1470
24 x 10	W-30F-2410-D	40.5	9.0	40.5	.89	.68	1505
24 x 12	W-30F-2412-D	40.5	9.0	40.5	.89	.75	1550
24 x 14	W-30F-2414-D	40.5	9.0	40.5	.89	.66	1590
24 x 16	W-30F-2416-D	40.5	9.0	40.5	.89	.70	1640
24 x 18	W-30F-2418-D	40.5	9.0	40.5	.89	.75	1665
24 x 20	W-30F-2420-D	40.5	9.0	40.5	.89	.80	1750
30	W-30F-3030-D	49.0	10.0	49.0	1.03	1.03	3225
30 x 12	W-30F-3012-D	49.0	10.0	49.0	1.03	.75	2545
30 x 14	W-30F-3014-D	49.0	10.0	49.0	1.03	.66	2590
30 x 16	W-30F-3016-D	49.0	10.0	49.0	1.03	.70	2645
30 x 18	W-30F-3018-D	49.0	10.0	49.0	1.03	.75	2690
30 x 20	W-30F-3020-D	49.0	10.0	49.0	1.03	.80	2780
30 x 24	W-30F-3024-D	49.0	10.0	49.0	1.03	.89	2915
36	W-30F-3636-D	60.0	19.5	60.0	1.15	1.15	5740
36 x 12	W-30F-3612-D	60.0	19.5	60.0	1.15	.75	4490
36 x 14	W-30F-3614-D	60.0	19.5	60.0	1.15	.66	4545
36 x 16	W-30F-3616-D	60.0	19.5	60.0	1.15	.70	4610
36 x 18	W-30F-3618-D	60.0	19.5	60.0	1.15	.75	4670
36 x 20	W-30F-3620-D	60.0	19.5	60.0	1.15	.80	4750
36 x 24	W-30F-3624-D	60.0	19.5	60.0	1.15	.89	4920
36 x 30	W-30F-3630-D	60.0	19.5	60.0	1.15	1.03	5255
42	W-30F-4242-D	68.5	21.0	68.5	1.28	1.28	6820
42 x 12	W-30F-4212-D	68.5	21.0	68.5	1.28	.75	4585
42 x 14	W-30F-4214-D	68.5	21.0	68.5	1.28	.66	4615
42 x 16	W-30F-4216-D	68.5	21.0	68.5	1.28	.70	4675
42 x 18	W-30F-4218-D	68.5	21.0	68.5	1.28	.75	4740
42 x 20	W-30F-4220-D	68.5	21.0	68.5	1.28	.80	4835
42 x 24	W-30F-4224-D	68.5	21.0	68.5	1.28	.89	5050
42 x 30	W-30F-4230-D	68.5	21.0	68.5	1.28	1.03	5490
42 x 36	W-30F-4236-D	68.5	21.0	68.5	1.28	1.15	6325
48	W-30F-4848-D	77.0	22.5	77.0	1.42	1.42	7380
48 x 12	W-30F-4812-D	77.0	22.5	77.0	1.42	.75	5090
48 x 14	W-30F-4814-D	77.0	22.5	77.0	1.42	.66	5120
48 x 16	W-30F-4816-D	77.0	22.5	77.0	1.42	.70	5190
48 x 18	W-30F-4818-D	77.0	22.5	77.0	1.42	.75	5250
48 x 20	W-30F-4820-D	77.0	22.5	77.0	1.42	.80	5340
48 x 24	W-30F-4824-D	77.0	22.5	77.0	1.42	.89	5555
48 x 30	W-30F-4830-D	77.0	22.5	77.0	1.42	1.03	5995
48 x 36	W-30F-4836-D	77.0	22.5	77.0	1.42	1.15	5830
48 x 42	W-30F-4842-D	77.0	22.5	77.0	1.42	1.28	7125

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

AWWA C110, ANSI A21.10

True Wyes

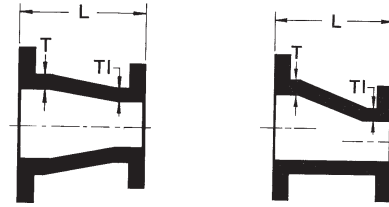
SERIES 32



Size	Part No.	A	B	T	T1	Wgt.
3	W-32F-0303-D	5.5	3.0	.48	-	30
4 x 3	W-32F-0403-D	5.5	3.0	.52	.48	35
4	W-32F-0404-D	6.5	3.0	.52	-	50
6 x 4	W-32F-0604-D	8.0	3.5	.55	.52	60
6	W-32F-0606-D	8.0	3.5	.55	-	80
8 x 4	W-32F-0804-D	8.0	3.5	.55	.52	85
8 x 6	W-32F-0806-D	9.0	4.5	.60	.55	100
8	W-32F-0808-D	9.0	4.5	.60	-	125
10 x 4	W-32F-1004-D	11.0	5.0	.68	.52	110
10 x 6	W-32F-1006-D	11.0	5.0	.68	.55	140
10 x 8	W-32F-1008-D	11.0	5.0	.68	.60	155
10	W-32F-1010-D	11.0	5.0	.68	-	185
12 x 4	W-32F-1204-D	12.0	5.5	.95	.52	145
12 x 6	W-32F-1206-D	12.0	5.5	.75	.55	160
12 x 8	W-32F-1208-D	12.0	5.5	.75	.60	210
12 x 10	W-32F-1210-D	12.0	5.5	.75	.66	240
12	W-32F-1212-D	12.0	5.5	.75	-	265
14	W-32F-1414-D	14.0	6.0	.66	-	415
16	W-32F-1616-D	15.0	6.5	.70	-	520
18	W-32F-1818-D	16.5	7.0	.75	-	630
20	W-32F-2020-D	18.0	8.0	.80	-	780
24	W-32F-2424-D	22.0	9.0	.89	-	1250

Concentric & Eccentric Reducers

SERIES 50 & 51



Size	Part No. (Concentric)	Part No. (Eccentric)	L	T	T1	Wgt.
4 x 3	W-50F-0403-D	W-51F-0403-D	7	.52	.48	30
6 x 3	W-50F-0603-D	W-51F-0603-D	9	.55	.48	40
6 x 4	W-50F-0604-D	W-51F-0604-D	9	.55	.52	45
8 x 4	W-50F-0804-D	W-51F-0804-D	11	.60	.52	65
8 x 6	W-50F-0806-D	W-51F-0806-D	11	.60	.55	75
10 x 4	W-50F-1004-D	W-51F-1004-D	12	.68	.52	85
10 x 6	W-50F-1006-D	W-51F-1006-D	12	.68	.55	90
10 x 8	W-50F-1008-D	W-51F-1008-D	12	.68	.60	110
12 x 4	W-50F-1204-D	W-51F-1204-D	14	.75	.52	120
12 x 6	W-50F-1206-D	W-51F-1206-D	14	.75	.55	130
12 x 8	W-50F-1208-D	W-51F-1208-D	14	.75	.60	145
12 x 10	W-50F-1210-D	W-51F-1210-D	14	.75	.68	170
14 x 6	W-50F-1406-D	W-51F-1406-D	16	.66	.55	155
14 x 8	W-50F-1408-D	W-51F-1408-D	16	.66	.60	175
14 x 10	W-50F-1410-D	W-51F-1410-D	16	.66	.68	190
14 x 12	W-50F-1412-D	W-51F-1412-D	16	.66	.75	220
16 x 6	W-50F-1606-D	W-51F-1606-D	18	.70	.55	190
16 x 8	W-50F-1608-D	W-51F-1608-D	18	.70	.60	210
16 x 10	W-50F-1610-D	W-51F-1610-D	18	.70	.68	235
16 x 12	W-50F-1612-D	W-51F-1612-D	18	.70	.75	265
16 x 14	W-50F-1614-D	W-51F-1614-D	18	.70	.66	280
18 x 8	W-50F-1808-D	W-51F-1808-D	19	.75	.60	240
18 x 10	W-50F-1810-D	W-51F-1810-D	19	.75	.68	265
18 x 12	W-50F-1812-D	W-51F-1812-D	19	.75	.75	295
18 x 14	W-50F-1814-D	W-51F-1814-D	19	.75	.66	310
18 x 16	W-50F-1816-D	W-51F-1816-D	19	.75	.70	340
20 x 10	W-50F-2010-D	W-51F-2010-D	20	.80	.68	310
20 x 12	W-50F-2012-D	W-51F-2012-D	20	.80	.75	345
20 x 14	W-50F-2014-D	W-51F-2014-D	20	.80	.66	355
20 x 16	W-50F-2016-D	W-51F-2016-D	20	.80	.70	390
20 x 18	W-50F-2018-D	W-51F-2018-D	20	.80	.75	550
24 x 12	W-50F-2412-D	W-51F-2412-D	24	.89	.75	355
24 x 14	W-50F-2414-D	W-51F-2414-D	24	.89	.66	490
24 x 16	W-50F-2416-D	W-51F-2416-D	24	.89	.70	525
24 x 18	W-50F-2418-D	W-51F-2418-D	24	.89	.75	550
24 x 20	W-50F-2420-D	W-51F-2420-D	24	.89	.80	590
30 x 18	W-50F-3018-D	W-51F-3018-D	30	1.03	.75	810
30 x 20	W-50F-3020-D	W-51F-3020-D	30	1.03	.80	870
30 x 24	W-50F-3024-D	W-51F-3024-D	30	1.03	.89	970
36 x 20	W-50F-3620-D	W-51F-3620-D	36	1.15	.80	1230
36 x 24	W-50F-3624-D	W-51F-3624-D	36	1.15	.89	1345
36 x 30	W-50F-3630-D	W-51F-3630-D	36	1.15	1.03	1555
42 x 24	W-50F-4224-D	W-51F-4224-D	42	1.28	.89	1820
42 x 30	W-50F-4230-D	W-51F-4230-D	42	1.28	1.03	2060
42 x 36	W-50F-4236-D	W-51F-4236-D	42	1.28	1.15	2345
48 x 30	W-50F-4830-D	W-51F-4830-D	48	1.42	1.03	2625
48 x 36	W-50F-4836-D	W-51F-4836-D	48	1.42	1.15	2950
48 x 42	W-50F-4842-D	W-51F-4842-D	48	1.42	1.28	3320

Blind Flange

SERIES 60



3" - 10"



12" - 48"

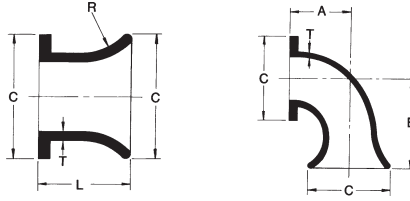
Size	Part No.	O	Q	V	Wgt.
3	W-60F-0303-D	7.50	.75	.69	9
4	W-60F-0404-D	9.00	.94	.88	16
6	W-60F-0606-D	11.00	1.00	.94	25
8	W-60F-0808-D	13.50	1.12	1.06	42
10	W-60F-1010-D	16.00	1.19	1.12	83
12	W-60F-1212-D	19.00	1.25	.81	85
14	W-60F-1414-D	21.00	1.38	.88	120
16	W-60F-1616-D	23.50	1.44	1.00	145
18	W-60F-1818-D	25.00	1.56	1.06	185
20	W-60F-2020-D	27.50	1.69	1.12	245
24	W-60F-2424-D	32.00	1.88	1.25	370
30	W-60F-3030-D	38.75	2.12	1.44	500
36	W-60F-3636-D	46.00	2.38	1.62	790
42	W-60F-4242-D	53.00	2.62	1.81	1175
48	W-60F-4848-D	59.50	2.75	2.00	1595

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

Manufacturers' Standard
Non-Pressure Fittings

Flare Fittings

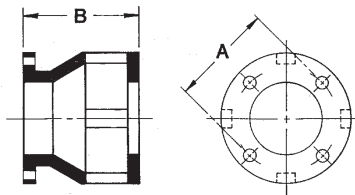
SERIES 58 (Straight), SERIES 69 (Standard) &
SERIES 70 (Long Radius)



Size	Part No. (Straight)	Part No. (Standard)	Part No. (Long Radius)	T	C	Straight Flare			90° Standard Flare			Long Radius Flare		
						L	R	Wgt.	A	B	Wgt.	A	B	Wgt.
3	W-58F-0303-D	W-69F-0303-D	W-70F-0303-D	0.40	7.50	8	6	20	5.5	11	25	7.75	13.25	30
4	W-58F-0404-D	W-69F-0404-D	W-70F-0404-D	0.40	9.00	8	6	30	6.5	12	40	9.00	14.50	50
6	W-58F-0606-D	W-69F-0606-D	W-70F-0606-D	0.45	11.00	8	6	40	8	12	70	11.50	15.50	85
8	W-58F-0808-D	W-69F-0808-D	W-70F-0808-D	0.53	13.50	10	8	70	9	14	110	14.00	19.00	145
10	W-58F-1010-D	W-69F-1010-D	W-70F-1010-D	0.55	16.00	10	10	95	11	17	175	16.50	22.50	225
12	W-58F-1212-D	W-69F-1212-D	W-70F-1212-D	0.60	19.00	12	12	155	12	18	245	19.00	25.00	330
14	W-58F-1414-D	W-69F-1414-D	W-70F-1414-D	0.65	21.00	12	14	185	14	20	340	21.50	27.50	440
16	W-58F-1616-D	W-69F-1616-D	W-70F-1616-D	0.70	23.50	16	16	240	15	21	460	24.00	30.00	620
18	W-58F-1818-D	W-69F-1818-D	W-70F-1818-D	0.75	25.00	16	18	275	16.5	22.5	560	26.50	32.50	800
20	W-58F-2020-D	W-69F-2020-D	W-70F-2020-D	0.80	27.50	18	20	355	18	24	700	29.00	35.00	1000
24	W-58F-2424-D	W-69F-2424-D	W-70F-2424-D	0.90	32.00	18	24	480	22	28	1100	34.00	40.00	1400
30	W-58F-3030-D	W-69F-3030-D	W-70F-3030-D	1.07	38.75	24	30	1100	25	32	1840	41.50	48.50	2190
36	W-58F-3636-D	W-69F-3636-D	W-70F-3636-D	1.19	46.00	24	36	1480	28	35	2700	49.00	56.00	3485
42	W-58F-4242-D	W-69F-4242-D	W-70F-4242-D	1.32	53.00	30	42	1900	31	38	3250	56.50	63.50	5150
48	W-58F-4848-D	W-69F-4848-D	W-70F-4848-D	1.44	59.50	30	48	2350	34	41	4215	64.00	71.00	6725

Sludge Shoes

SERIES 67



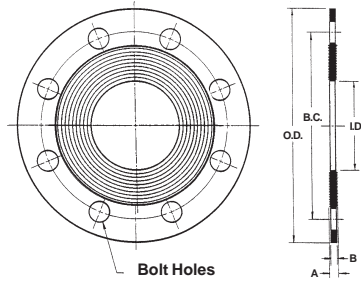
Size	Part No.	A Bolt Circle	Bolt Hole Dia.	B	Wgt.
3	W-67F-0303-D	5.75	7/8	12	25
4	W-67F-0404-D	7.0	7/8	12	35
6	W-67F-0606-D	8.0	7/8	12	45
8	W-67F-0808-D	10.0	7/8	12	65
10	W-67F-1010-D	12.25	1	12	85

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

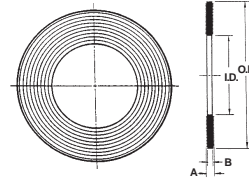
SEAL-TITE FLANGE GASKET

Low Torque!

Full Face Flange Gasket



Ring Type Flange Gasket



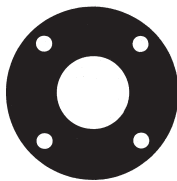
Serrated Face!

Material: SBR

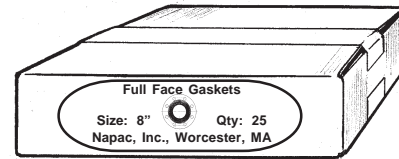
Nominal Size	Part No. (Full Face)	Part No. (Ring)	ID	OD (Full Face)	OD (Ring)	A	B	BC (Full Face)	Box Quantity (Full Face)	Box Quantity (Ring)
2	FFG-050-150	RG-050-100	2.15	6.00	3.90	5/32	1/8	4.75	25	25
2 1/2	FFG-065-175	RG-065-120	2.73	7.00	4.70	5/32	1/8	5.50	25	25
3	FFG-080-188	RG-080-132	3.20	7.50	5.15	5/32	1/8	6.00	25	25
4	FFG-100-210	RG-100-162	3.98	9.00	6.30	5/32	1/8	7.50	25	25
5	FFG-125-250	RG-125-194	5.07	10.00	7.60	5/32	1/8	8.50	25	25
6	FFG-150-275	RG-150-218	6.01	11.00	8.50	5/32	1/8	9.50	25	25
8	FFG-200-340	RG-200-272	8.11	13.50	10.60	5/32	1/8	11.75	25	25
10	FFG-250-400	RG-250-328	10.06	16.00	12.80	5/32	1/8	14.25	25	25
12	FFG-300-475	RG-300-378	12.09	19.00	14.75	5/32	1/8	17.00	10	10
14	FFG-350-525	RG-350-445	14.12	21.00	17.15	5/32	1/8	18.75	10	10
16	FFG-400-588	RG-400-510	16.19	23.50	19.90	5/32	1/8	21.25	10	10
18	FFG-450-625	RG-450-542	18.25	25.00	21.15	5/32	1/8	22.75	10	10
20	FFG-500-688	RG-500-606	20.28	27.50	23.60	5/32	1/8	25.00	10	10
24	FFG-600-800	RG-600-717	24.34	32.00	27.95	5/32	1/8	29.50	10	10
30	FFG-750-985	-	30.98	38.75	-	5/32	1/8	36.00	5	-
36	FFG-900-1165	-	37.14	46.00	-	5/32	1/8	42.75	5	-

FLAT FLANGE GASKET

Full Face



Ring Type



Material: Red Rubber & Non-Asbestos

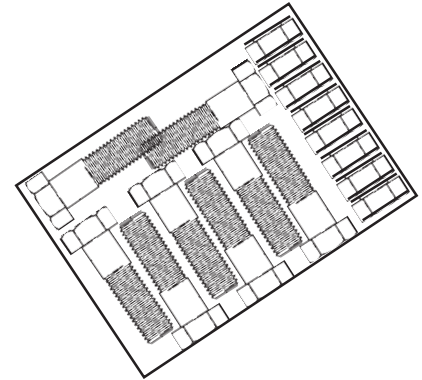
Nominal Size	Part No. (Full Face)	Part No. (Ring)	OD (Full Face)	OD (Ring)	Thickness	Bolt Circle (Full Face)	Box Quantity (Full Face)	Box Quantity (Ring)
1	FFF-025-106	FRG-025-066	4.25	2.63	1/8	3.12	50	50
1-1/2	FFF-038-125	FRG-038-085	5.00	3.38	1/8	3.88	25	50
2	FFF-050-150	FRG-050-100	6.00	3.90	1/8	4.75	25	50
2-1/2	FFF-065-175	FRG-065-120	7.00	4.70	1/8	5.50	25	25
3	FFF-080-188	FRG-080-132	7.50	5.15	1/8	6.00	25	25
4	FFF-100-210	FRG-100-162	9.00	6.30	1/8	7.50	25	25
5	FFF-125-250	FRG-125-194	10.00	7.60	1/8	8.50	25	25
6	FFF-150-275	FRG-150-218	11.00	8.50	1/8	9.50	25	25
8	FFF-200-340	FRG-200-272	13.50	10.60	1/8	11.75	25	25
10	FFF-250-400	FRG-250-328	16.00	12.80	1/8	14.25	25	25
12	FFF-300-475	FRG-300-378	19.00	14.75	1/8	17.00	10	10
14	FFF-350-525	FRG-350-445	21.00	17.15	1/8	18.75	10	10
16	FFF-400-588	FRG-400-510	23.50	19.90	1/8	21.25	10	10
18	FFF-450-625	FRG-450-542	25.00	21.15	1/8	22.75	10	10
20	FFF-500-688	FRG-500-606	27.50	23.60	1/8	25.00	10	10
24	FFF-600-800	FRG-600-717	32.00	27.95	1/8	29.50	10	10
30	FFF-750-969	FRG-750-869	38.75	34.75	1/8	36.00	5	5
36	FFF-900-1150	FRG-900-1031	46.00	41.25	1/8	42.75	5	5

UNITED DUCTILE IRON CLASS 250 FLANGED FITTINGS

Bolt and Nut Packs for Class 125/150 Flanges

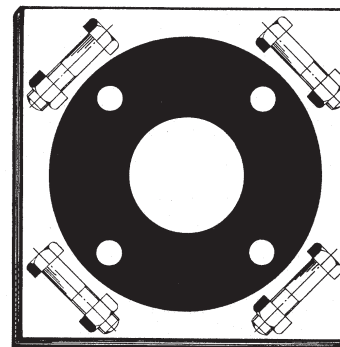
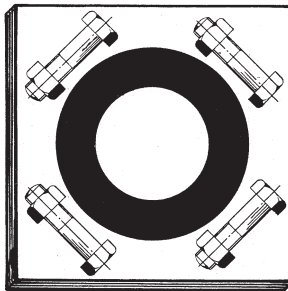
Heavy Hex Head Bolts (ANSI B18.2.1/ASTM-A307 Grade B)
Heavy Hex Nuts (ANSI B18.2.2/ASTM-A563 Grade A)

Part No.	Class 125/150 Flange Size	Bolt Diameter and Length	No. of Bolts per Flange	No. of Bolts per Poly Bag	Master Box (Qty. of Sets)
FBZ02	1"	1/2" x 2"	4	4	64
	1-1/4"				
FBZ03	2"	5/8" x 2-1/2"	4	4	20
	2 1/2"				
FBZ04	3"	5/8" x 3"	8	8	16
	4"				
FBZ08	5"	3/4" x 3-1/2"	8	8	8
	6"				
FBZ12	8"	7/8" x 4"	12	12	4
	10"				
	12"				
				No. of Bolts per Box	No. of Boxes for one Flange
FBZ14	14"	1" x 4-1/2"	12	12	1
FBZ16	16"	1" x 4-1/2"	16	16	1
FBZ18	18"	1-1/8" x 5"	16	16	1
FBZ20	20"	1-1/8" x 5"	20	20	1
FBZ24	24"	1-1/4" x 5-1/2"	20	20	1
FBZ30	30"	1-1/4" x 6-1/2"	28	14	2 Boxes
FBZ36	36"	1-1/2" x 7"	32	8	4 Boxes
FBZ42	42"	1-1/2" x 7-1/2"	36	9	4 Boxes
FBZ48	48"	1-1/2" x 8"	44	11	4 Boxes



Available-plain, zinc plated, hot dipped galvanized, and type 304 and 316 stainless steel.

Flange Accessory Packs



Class 125/150 Flange Size	1/8" Full Face Seal-Tite (Serrated)	1/8" Ring Type Seal-Tite (Serrated)	1/8" Full Face Red Rubber	1/8" Ring Type Red Rubber	1/8" Full Face Non-Asbestos	1/8" Ring Type Non-Asbestos
2	FBR-020-*	RBP-020-*	FRP-020-*	RRP-020-*	FNP-020-*	RNP-020-*
2 1/2	FBR-025-	RBP-025-	FRP-025-	RRP-025-	FNP-025-	RNP-025-
3	FBR-030-	RBP-030-	FRP-030-	RRP-030-	FNP-030-	RNP-030-
4	FBR-040-	RBP-040-	FRP-040-	RRP-040-	FNP-040-	RNP-040-
5	FBR-050-	RBP-050-	FRP-050-	RRP-050-	FNP-050-	RNP-050-
6	FBR-060-	RBP-060-	FRP-060-	RRP-060-	FNP-060-	RNP-060-
8	FBR-080-	RBP-080-	FRP-080-	RRP-080-	FNP-080-	RNP-080-
10	FBR-100-	RBP-100-	FRP-100-	RRP-100-	FNP-100-	RNP-100-
12	FBR-120-	RBP-120-	FRP-120-	RRP-120-	FNP-120-	RNP-120-
14	FBR-140-	RBP-140-	FRP-140-	RRP-140-	FNP-140-	RNP-140-
16	FBR-160-	RBP-160-	FRP-160-	RRP-160-	FNP-160-	RNP-160-
18	FBR-180-	RBP-180-	FRP-180-	RRP-180-	FNP-180-	RNP-180-
20	FBR-200-	RBP-200-	FRP-200-	RRP-200-	FNP-200-	RNP-200-
24	FBR-240-	RBP-240-	FRP-240-	RRP-240-	FNP-240-	RNP-240-



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