

MALLEABLE IRON



**Malleable Iron Threaded Pipe Unions
Pressure - Temperature Ratings**

Temperature		Pressure					
		Class 150		Class 250		Class 300	
		psi	bar	psi	bar	psi	bar
-20° to 150°	-28.9° to 65.6°	300	20.7	500	34.5	600	41.4
200°	93.3°	265	18.3	455	31.4	550	37.9
250°	121.1°	225	15.5	405	27.9	505	34.8
300°	148.9°	185	12.8	360	24.8	460	31.7
350°	176.7°	150	10.3	315	21.7	415	28.6
400°	204.4°	110	7.6	270	18.6	370	25.5
450°	232.2°	75	5.2	225	15.5	325	22.4
500°	260.0°	—	—	180	12.4	280	19.3
550°	287.8°	—	—	130	9.0	230	15.9

Note: Unions with Copper or Copper Alloy seats are not intended for use where temperature exceeds 450°F



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

**Malleable Iron Threaded Fittings
Pressure - Temperature Ratings**

Temperature		Pressure							
		Class 150		Class 300					
				Sizes 1/4"–1" (6–25 mm)		Sizes 1 1/4"–2" (32–51 mm)		Sizes 2 1/2"–3" (64–76 mm)	
(°F)	(°C)	psi	bar	psi	bar	psi	bar	psi	bar
-20° to 150°	-28.9° to 65.6°	300	20.7	2,000	137.9	1,500	103.4	1,000	68.9
200°	93.3°	265	18.3	1,785	123.1	1,350	93.1	910	62.7
250°	121.1°	225	15.5	1,575	108.6	1,200	82.7	825	56.9
300°	148.9°	185	12.8	1,360	93.8	1,050	72.4	735	50.7
350°	176.7°	150	10.3	1,150	79.3	900	62.1	650	44.8
400°	204.4°	—	—	935	64.5	750	51.7	560	38.6
450°	232.2°	—	—	725	50.0	600	41.4	475	32.8
500°	260.0°	—	—	510	35.2	450	31.0	385	26.5
550°	287.8°	—	—	300	20.7	300	20.7	300	20.7

Anvil Class 150/300 Malleable Iron Fittings conform to ASME B16.3 and Unions conform to ASME B16.39.

ALL ELBOWS & TEES 3/8" (10 DN) and LARGER ARE 100% GAS TESTED AT A MINIMUM OF 100 PSI. (6.9 bar)

Standards and Specifications

	Dimensions	Material	Galvanizing*	Thread	Pressure Rating
MALLEABLE IRON FITTINGS					
Class 150/PN 20	ASME B16.3	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.3
Class 300/PN 50	ASME B16.3	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.3
MALLEABLE IRON UNIONS					
Class 150/PN 20	ASME B16.39	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.39
Class 250	ASME B16.39	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.39
Class 300/PN 50	ASME B16.39	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.39

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

Malleable Iron

Class 150 (Standard)

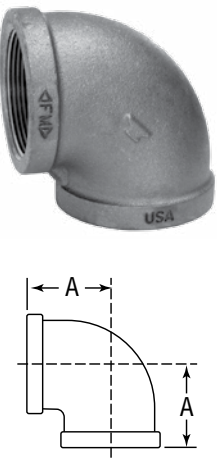
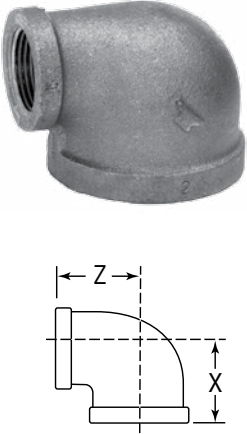
FIGURE 1101 90° Elbow	Size		A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/8	6	11/16	17	0.06	0.03	0.06	0.03
	1/4	8	13/16	22	0.11	0.05	0.11	0.05
	3/8	10	15/16	24	0.17	0.08	0.17	0.08
	1/2	15	1 1/8	29	0.30	0.14	0.30	0.14
	3/4	20	1 5/16	33	0.45	0.20	0.45	0.20
	1	25	1 1/2	38	0.73	0.33	0.73	0.33
	1 1/4	32	1 3/4	44	0.97	0.44	0.97	0.44
	1 1/2	40	1 15/16	49	1.30	0.59	1.30	0.59
	2	50	2 1/4	57	2.06	0.93	2.06	0.93
	2 1/2	65	2 11/16	68	3.55	1.61	3.55	1.61
	3	80	3 1/16	78	5.46	2.48	5.46	2.48
	3 1/2	90	3 7/16	87	7.10	3.22	7.10	3.22
	4	100	3 13/16	98	8.95	4.06	8.95	4.06
	5	125	4 1/2	114	13.90	6.30	13.90	6.30
	6	150	5 1/8	130	23.00	10.43	23.00	10.43

FIGURE 1101R Reducing Elbow	Size				X		Z		Unit Weight			
									Black		Galv.	
	NPS	DN	NPS	DN	in	mm	in	mm	lbs	kg	lbs	kg
	1/4	8	1/8	6	3/4	19	3/4	19	0.10	0.05	0.10	0.05
	3/8	10	1/8	6	13/16	22	7/8	22	0.12	0.05	0.12	0.05
			1/4	8	7/8	22	15/16	24	0.14	0.06	0.14	0.06
	1/2	15	1/4	8	1	25	1	25	0.19	0.09	0.19	0.09
			3/8	10	1 1/16	27	1 1/16	27	0.22	0.10	0.22	0.10
	3/4	20	1/4	8	1 1/8	29	1 1/8	29	0.26	0.12	0.26	0.12
			3/8	10	1 1/8	29	1 1/8	29	0.29	0.13	0.29	0.13
			1/2	15	1 3/16	30	1 1/4	32	0.38	0.17	0.38	0.17
	1	25	3/8	10	1 3/16	30	1 1/4	32	0.41	0.19	0.41	0.19
			1/2	15	1 1/4	32	1 3/8	35	0.46	0.21	0.46	0.21
			3/4	20	1 3/8	35	1 7/16	37	0.56	0.25	0.56	0.25
	1 1/4	32	1/2	15	1 3/8	35	1 9/16	40	0.61	0.28	0.61	0.28
			3/4	20	1 7/16	37	1 5/8	41	0.71	0.32	0.71	0.32
			1	25	1 9/16	40	1 11/16	43	0.87	0.39	0.87	0.39
	1 1/2	40	3/4	20	1 1/2	38	1 3/4	44	0.83	0.38	0.83	0.38
			1	25	1 5/8	41	1 13/16	47	1.02	0.46	1.02	0.46
			1 1/4	32	1 13/16	47	1 7/8	48	1.17	0.53	1.17	0.53
	2	50	3/4	20	1 5/8	41	2	51	1.30	0.59	1.30	0.59
			1	25	1 3/4	44	2	51	1.35	0.61	1.35	0.61
			1 1/4	32	1 7/8	48	2 1/8	54	1.53	0.69	1.53	0.69
			1 1/2	40	2	51	2 1/8	54	1.75	0.79	1.75	0.79
	2 1/2	65	1 1/2	40	2 3/16	56	2 1/2	64	2.50	1.13	2.50	1.13
			2	50	2 7/16	62	2 5/8	67	2.98	1.35	2.98	1.35
	3	80	2	50	2 9/16	65	2 15/16	75	3.75	1.70	3.75	1.70
			2 1/2	65	2 13/16	73	3	76	4.30	1.95	4.30	1.95
	4	100	3	80	3 5/16	84	3 5/8	92	7.87	3.57	7.87	3.57

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

MALLEABLE IRON

Malleable Iron Class 150 (Standard)

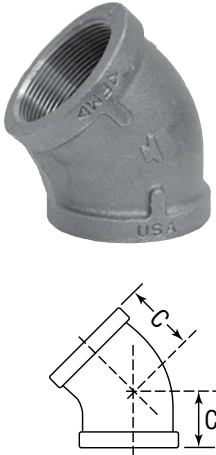
FIGURE 1102 45° Elbow	Size		C		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/8	6	11/16	17	0.07	0.03	0.07	0.03
	1/4	8	3/4	19	0.11	0.05	0.11	0.05
	3/8	10	13/16	22	0.16	0.07	0.16	0.07
	1/2	15	7/8	22	0.22	0.10	0.22	0.10
	3/4	20	1	25	0.37	0.17	0.37	0.17
	1	25	1 1/8	29	0.54	0.24	0.54	0.24
	1 1/4	32	1 5/16	33	0.86	0.39	0.86	0.39
	1 1/2	40	1 7/16	37	1.13	0.51	1.13	0.51
	2	50	1 11/16	43	1.79	0.81	1.79	0.81
	2 1/2	65	1 15/16	49	3.60	1.63	3.60	1.63
	3	80	2 3/16	56	4.48	2.03	4.48	2.03
	4	100	2 5/8	67	7.40	3.36	7.40	3.36
	5	125	3 1/16	78	11.46	5.20	11.46	5.20
	6	150	3 7/16	87	19.93	9.04	19.93	9.04

FIGURE 1103 (Straight) FIGURE 1103R (Reducing) 90° Street Elbow	Size		A		J		Unit Weight			
							Black		Galv.	
	NPS	DN	in	mm	in	mm	lbs	kg	lbs	kg
	1/8	6	11/16	17	1	25	0.06	0.03	0.06	0.03
	1/4	8	13/16	22	1 3/16	30	0.10	0.05	0.10	0.05
	3/8	10	15/16	24	1 7/16	37	0.17	0.08	0.17	0.08
	1/2	15	1 1/8	29	1 5/8	41	0.28	0.13	0.28	0.13
	3/4	20	1 5/16	33	1 7/8	48	0.41	0.19	0.41	0.19
	1	25	1 1/2	38	2 1/8	54	0.62	0.28	0.62	0.28
	1 1/4	32	1 3/4	44	2 7/16	62	1.09	0.49	1.09	0.49
	1 1/2	40	1 15/16	49	2 11/16	68	1.44	0.65	1.44	0.65
	2	50	2 1/4	57	3 1/4	83	2.85	1.29	2.85	1.29
	2 1/2	65	2 11/16	68	3 7/8	98	4.00	1.81	4.00	1.81
	3	80	3 1/16	78	4 1/2	114	6.06	2.75	6.06	2.75
	4	100	3 13/16	98	5 11/16	144	10.53	4.78	10.53	4.78
	1/2 x 3/8	15 x 10	1 1/16	27	1 9/16	40	0.23	0.10	0.23	0.10
	3/4 x 1/2	20 x 15	1 3/16	30	1 3/4	44	0.32	0.15	0.32	0.15
	1 x 3/4	25 x 20	1 3/8	35	2 1/16	52	0.54	0.24	0.54	0.24
	1 1/4 x 1	32 x 25	1 9/16	40	2 5/16	59	0.86	0.39	0.86	0.39
	1 1/4 x 3/4	32 x 20	1 7/16	37	2 1/4	57	0.75	0.34	0.75	0.34
	1 1/2 x 1 1/4	40 x 32	1 13/16	47	2 9/16	65	1.18	0.54	1.18	0.54
	1 1/2 x 1	40 x 25	1 5/8	41	2 1/2	64	1.08	0.49	1.08	0.49
	2 x 1 1/2	50 x 40	2	51	2 15/16	75	1.85	0.84	1.85	0.84

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron

Class 150 (Standard)

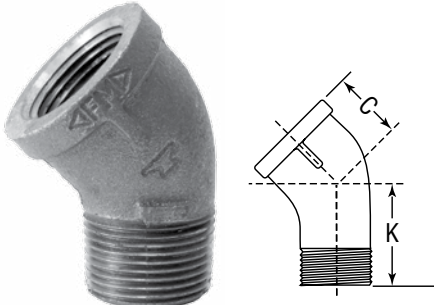
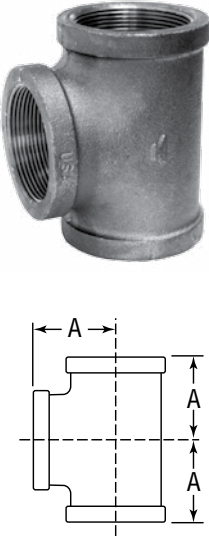
FIGURE 1104 45° Street Elbow	Size		C		K		Unit Weight			
							Black		Galv.	
	NPS	DN	in	mm	in	mm	lbs	kg	lbs	kg
	1/8	6	11/16	17	7/8	22	0.06	0.03	0.06	0.03
	1/4	8	3/4	19	15/16	24	0.10	0.05	0.10	0.05
	3/8	10	13/16	22	1	25	0.14	0.06	0.14	0.06
	1/2	15	7/8	22	1 1/8	29	0.20	0.09	0.20	0.09
	3/4	20	1	25	1 5/16	33	0.33	0.15	0.33	0.15
	1	25	1 1/8	29	1 7/16	37	0.52	0.24	0.52	0.24
	1 1/4	32	1 5/16	33	1 11/16	43	0.85	0.39	0.85	0.39
	1 1/2	40	1 7/16	37	1 7/8	48	1.22	0.55	1.22	0.55
	2	50	1 11/16	43	2 1/4	57	1.92	0.87	1.92	0.87

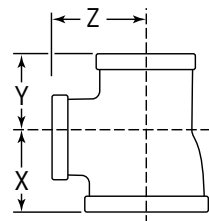
FIGURE 1105 Straight Tee	Size		A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/8	6	11/16	17	0.09	0.04	0.09	0.04
	1/4	8	13/16	22	0.15	0.07	0.15	0.07
	3/8	10	15/16	24	0.23	0.10	0.23	0.10
	1/2	15	1 1/8	29	0.41	0.19	0.41	0.19
	3/4	20	1 5/16	33	0.60	0.27	0.60	0.27
	1	25	1 1/2	38	0.90	0.41	0.90	0.41
	1 1/4	32	1 3/4	44	1.31	0.59	1.31	0.59
	1 1/2	40	1 15/16	49	1.73	0.78	1.73	0.78
	2	50	2 1/4	57	2.52	1.14	2.52	1.14
	2 1/2	65	2 11/16	68	4.90	2.22	4.90	2.22
	3	80	3 1/16	78	7.13	3.23	7.13	3.23
	3 1/2	90	3 7/16	87	9.00	4.08	9.00	4.08
	4	100	3 13/16	98	11.32	5.13	11.32	5.13
	5	125	4 1/2	114	19.42	8.81	19.42	8.81
	6	150	5 1/8	130	25.50	11.56	25.50	11.56

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
 All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron

Class 150 (Standard)

FIGURE 1105R
Reducing Tee



Size						X		Y		Z		Unit Weight					
												Black		Galv.			
NPS	DN	NPS	DN	NPS	DN	in	mm	in	mm	in	mm	lbs	kg	lbs	kg		
1/8	6	1/8	6	1/4	8	3/4	19	3/4	19	3/4	19	0.12	0.05	0.12	0.05		
1/4	8	1/4	8	1/8	6	3/4	19	3/4	19	3/4	19	0.13	0.06	0.13	0.06		
				3/8	10	15/16	24	15/16	24	7/8	22	0.19	0.09	0.19	0.09		
3/8	10	1/4	8	1/4	8	7/8	22	13/16	22	15/16	24	0.19	0.09	0.19	0.09		
				3/8	10	15/16	24	15/16	24	15/16	24	0.21	0.10	0.21	0.10		
		3/8	10	1/4	8	7/8	22	7/8	22	15/16	24	0.21	0.10	0.21	0.10		
				1/2	15	1 1/16	27	1 1/16	27	1 1/16	27	0.27	0.12	0.27	0.12		
1/2	15	1/4	8	1/2	15	1 1/8	29	1 5/16	24	1 1/8	29	0.29	0.13	0.29	0.13		
				3/8	10	3/8	10	1 1/16	27	1	25	1 1/16	27	0.28	0.13	0.28	0.13
		3/8	10	1/2	15	1 1/8	29	1 1/16	27	1 1/8	29	0.33	0.15	0.33	0.15		
				1/2	15	1/4	8	1	25	1	25	1	25	0.27	0.12	0.27	0.12
		3/8	10			1 1/16	27	1 1/16	27	1 1/16	27	0.30	0.14	0.30	0.14		
		3/4	20			1 1/4	32	1 1/4	32	1 3/16	30	0.45	0.20	0.45	0.20		
1	25	1 3/8	35			1 3/8	35	1 1/4	32	0.55	0.25	0.55	0.25				
3/4	20	1/4	8	3/4	20	1 5/16	33	1 1/8	29	1 5/16	33	0.45	0.20	0.45	0.20		
				3/8	10	3/8	10	1 1/8	29	1 5/16	24	1 1/8	29	0.36	0.16	—	—
		3/8	10	3/4	20	1 5/16	33	1 1/8	29	1 5/16	33	0.46	0.21	0.46	0.21		
				1/2	15	1/2	15	1 3/16	30	1 1/8	29	1 1/4	32	0.43	0.20	0.43	0.20
		3/4	20			1 5/16	33	1 1/4	32	1 5/16	33	0.51	0.23	0.51	0.23		
		3/4	20	1/4	8	1 1/16	27	1 1/16	27	1 1/8	29	0.38	0.17	0.38	0.17		
						3/8	10	1 1/8	29	1 1/8	29	1 1/8	29	0.42	0.19	0.42	0.19
				1/2	15	1 3/16	22	1 3/16	30	1 1/4	32	0.47	0.21	0.47	0.21		
						1	25	1 7/16	37	1 7/16	37	1 3/8	35	0.62	0.28	0.62	0.28
				1 1/4	32	1 5/8	41	1 5/8	41	1 7/16	37	0.90	0.41	0.90	0.41		
1	25					1 1/2	38	1 5/16	33	1 1/2	38	0.69	0.31	0.69	0.31		
1	25	1/4	8	1	25	1 1/2	38	1 5/16	33	1 1/2	38	0.70	0.32	0.70	0.32		
				3/4	20	1 3/8	35	1 1/4	32	1 7/16	37	0.56	0.25	0.56	0.25		
				1	25	1 1/2	38	1 3/8	35	1 1/2	38	0.76	0.34	0.76	0.34		
				1/2	15	1 1/4	32	1 3/16	30	1 3/8	35	0.59	0.27	0.59	0.27		
		3/4	20	3/4	20	1 3/8	35	1 5/16	33	1 7/16	37	0.74	0.34	0.74	0.34		
				1	25	1 1/2	38	1 7/16	37	1 1/2	38	0.78	0.35	0.78	0.35		
				1	25	1/4	8	1 1/8	29	1 1/8	29	1 1/4	44	0.53	0.24	0.53	0.24
						3/8	10	1 3/16	30	1 3/16	30	1 1/4	32	0.60	0.27	0.60	0.27
		1/2	15			1 1/4	32	1 1/4	32	1 3/8	35	0.70	0.32	0.70	0.32		
		3/4	20			1 3/8	35	1 3/8	35	1 7/16	37	0.82	0.37	0.82	0.37		
		1 1/4	32			1 1 1/16	43	1 1 1/16	43	1 1 1/16	40	0.92	0.42	0.92	0.42		
		1 1/2	40			1 1 3/16	47	1 1 3/16	46	1 1 1/8	41	1.19	0.54	1.19	0.54		
		2	50			2	51	2	51	1 3/4	44	1.63	0.74	1.63	0.74		
		1 3/4	40			1 3 1/16	79	1 3 1/16	77	1 3 1/8	67	2.20	1.00	2.20	1.00		

See additional sizes on following page.

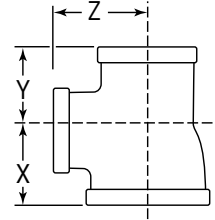
Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.

All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron

Class 150 (Standard)

FIGURE 1105R
Reducing Tee (Cont'd.)



Size						X		Y		Z		Unit Weight			
NPS DN		NPS DN		NPS DN		in mm		in mm		in mm		Black		Galv.	
												lbs	kg	lbs	kg
1 1/4	32	1/2	15	1	25	1 1/16	40	1 3/8	35	1 11/16	43	0.87	0.39	0.87	0.39
				1 1/4	32	1 3/4	44	1 9/16	40	1 3/4	44	1.04	0.47	1.04	0.47
		3/4	20	3/4	20	1 7/16	37	1 5/16	33	1 5/8	41	0.86	0.39	0.86	0.39
				1	25	1 9/16	40	1 7/16	37	1 11/16	43	0.91	0.41	0.91	0.41
	32	1	25	1 1/4	32	1 3/4	44	1 5/8	41	1 3/4	44	1.04	0.47	1.04	0.47
				1/2	15	1 3/8	35	1 1/4	32	1 9/16	40	0.76	0.34	0.76	0.34
				3/4	20	1 7/16	37	1 3/8	35	1 5/8	41	0.87	0.39	0.87	0.39
				1	25	1 9/16	40	1 1/2	38	1 11/16	43	1.11	0.50	1.11	0.50
		1 1/4	32	1 1/4	32	1 3/4	44	1 11/16	43	1 3/4	44	1.13	0.51	1.13	0.51
				3/8	10	1 1/4	32	1 1/4	32	1 7/16	37	0.86	0.39	0.86	0.39
				1/2	15	1 3/8	35	1 3/8	35	1 9/16	40	0.98	0.44	0.98	0.44
				3/4	20	1 7/16	37	1 7/16	37	1 5/8	41	1.07	0.49	1.07	0.49
	40	1 1/4	32	1	25	1 9/16	40	1 9/16	40	1 11/16	43	1.18	0.54	1.18	0.54
				1 1/2	40	1 7/8	48	1 7/8	48	1 13/16	47	1.45	0.66	1.45	0.66
				2	50	2 1/8	54	2 1/8	54	1 7/8	48	1.70	0.77	1.70	0.77
				1/2	15	1 15/16	49	1 11/16	43	1 15/16	49	1.33	0.60	1.33	0.60
		3/4	20	3/4	20	1 1/2	38	1 5/16	33	1 3/4	44	1.00	0.45	1.00	0.45
				1 1/2	40	1 15/16	49	1 3/4	44	1 15/16	49	1.41	0.64	1.41	0.64
		1	25	1	25	1 5/8	41	1 1/2	38	1 13/16	47	1.14	0.52	1.14	0.52
				1 1/4	32	1 13/16	47	1 11/16	43	1 7/8	48	1.30	0.59	1.30	0.59
1 1/2	40	1 1/4	32	1 1/2	40	1 15/16	49	1 13/16	47	1 15/16	49	1.50	0.68	1.50	0.68
				1/2	15	1 7/16	37	1 3/8	35	1 11/16	43	1.05	0.48	1.05	0.48
				3/4	20	1 1/2	38	1 7/16	37	1 3/4	44	1.08	0.49	1.08	0.49
				1	25	1 5/8	41	1 9/16	40	1 13/16	47	1.26	0.57	1.26	0.57
		1 1/2	40	1 1/4	32	1 13/16	47	1 3/4	44	1 7/8	48	1.52	0.69	1.52	0.69
				1 1/2	40	1 15/16	49	1 7/8	48	1 15/16	49	1.50	0.68	1.50	0.68
				1/2	15	1 7/16	37	1 7/16	37	1 11/16	43	1.19	0.54	1.19	0.54
				3/4	20	1 1/2	38	1 1/2	38	1 3/4	44	1.60	0.73	1.60	0.73
	50	1 1/2	40	1	25	1 5/8	41	1 5/8	41	1 13/16	47	1.45	0.66	1.45	0.66
				1 1/4	32	1 13/16	47	1 13/16	47	1 7/8	48	1.45	0.66	1.45	0.66
				2	50	2 3/16	56	2 3/16	56	2	51	1.86	0.84	1.86	0.84
				1/2	15	1 7/16	37	1 7/16	37	1 11/16	43	1.19	0.54	1.19	0.54
		3/4	20	3/4	20	1 1/2	38	1 1/2	38	1 3/4	44	1.60	0.73	1.60	0.73
				1	25	1 5/8	41	1 5/8	41	1 13/16	47	1.45	0.66	1.45	0.66
		1	25	1 1/4	32	1 13/16	47	1 13/16	47	1 7/8	48	1.45	0.66	1.45	0.66
				2	50	2 3/16	56	2 3/16	56	2	51	1.86	0.84	1.86	0.84

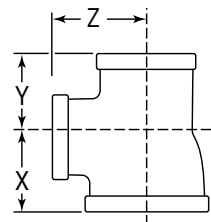
See additional sizes on previous and following page.

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron

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FIGURE 1105R
Reducing Tee (Cont'd.)



Size						X		Y		Z		Unit Weight			
												Black		Galv.	
NPS	DN	NPS	DN	NPS	DN	in	mm	in	mm	in	mm	lbs	kg	lbs	kg
2	50	1/2	15	2	50	2 1/4	57	1 7/8	48	2 1/4	57	2.15	0.98	2.15	0.98
		3/4	20	2	50	2 1/4	57	1 5/16	49	2 1/4	57	2.00	0.91	2.00	0.91
		1	25	2	50	2 1/4	57	2	51	2 1/4	57	2.14	0.97	2.14	0.97
		1 1/4	32	1 1/4	32	1 7/8	48	1 3/4	44	2 1/8	54	1.72	0.78	1.72	0.78
				1 1/2	40	2	51	1 7/8	48	2 3/16	56	1.85	0.84	1.85	0.84
		1 1/2	40	2	50	2 1/4	57	2 1/8	54	2 1/4	57	2.20	1.00	2.20	1.00
				1	25	1 3/4	44	1 5/8	41	2	51	1.57	0.71	1.57	0.71
				1 1/4	32	1 7/8	48	1 3/16	47	2 1/8	54	1.76	0.80	1.76	0.80
				1 1/2	40	2	51	1 5/16	49	2 3/16	56	1.95	0.88	1.95	0.88
				2	50	2 1/4	57	2 3/16	56	2 1/4	57	2.24	1.02	2.24	1.02
		2	50	1/2	15	1 1/2	38	1 1/2	38	1 7/8	48	1.65	0.75	1.65	0.75
				3/4	20	1 5/8	41	1 5/8	41	2	51	1.87	0.85	1.87	0.85
				1	25	1 3/4	44	1 3/4	44	2	51	1.76	0.80	1.76	0.80
				1 1/4	32	1 7/8	48	1 7/8	48	2 1/8	54	2.35	1.07	2.35	1.07
				1 1/2	40	2	51	2	51	2 3/16	56	2.55	1.16	2.55	1.16
				2 1/2	65	2 5/8	67	2 5/8	67	2 5/8	60	3.50	1.59	3.50	1.59
2 1/2	65	1 1/2	40	2	50	2 3/8	60	2 3/16	56	2 5/8	67	3.43	1.56	3.43	1.56
				2 1/2	65	2 1/16	68	2 1/2	64	2 1/16	68	3.80	1.72	3.80	1.72
		2	50	2	50	2 3/8	60	2 1/4	57	2 5/8	67	3.28	1.49	3.28	1.49
				2 1/2	65	2 1/16	68	2 5/8	67	2 1/16	68	4.10	1.86	4.10	1.86
		2 1/2	65	3/4	20	1 3/4	44	1 3/4	44	2 3/16	59	2.72	1.23	2.72	1.23
				1	25	1 7/8	48	1 7/8	48	2 3/8	60	2.85	1.29	2.85	1.29
				1 1/4	32	2 1/16	52	2 1/16	52	2 7/16	62	3.36	1.52	3.36	1.52
				1 1/2	40	2 3/16	56	2 3/16	56	2 1/2	64	3.46	1.57	3.46	1.57
				2	50	2 3/8	60	2 3/8	60	2 5/8	67	3.65	1.66	3.65	1.66
				3	80	3	76	3	76	2 13/16	73	5.82	2.64	5.82	2.64
3	80	2	50	2	50	2 1/2	64	2 1/4	57	2 7/8	73	4.50	2.04	4.50	2.04
				3	80	3 1/8	79	2 7/8	73	3 1/8	79	5.80	2.63	5.80	2.63
		2 1/2	65	2	50	2 1/2	64	2 3/8	60	2 7/8	73	4.80	2.18	4.80	2.18
				2 1/2	65	2 13/16	73	2 11/16	68	3	76	5.80	2.63	5.80	2.63
		3	80	3/4	20	1 7/8	48	1 7/8	48	2 5/8	67	4.03	1.83	4.03	1.83
				1	25	2	51	2	51	2 5/8	67	4.13	1.87	4.13	1.87
				1 1/4	32	2 3/16	56	2 3/16	56	2 3/4	70	4.50	2.04	4.50	2.04
				1 1/2	40	2 5/16	59	2 5/16	59	2 13/16	73	5.18	2.35	5.18	2.35
				2	50	2 1/2	64	2 1/2	64	2 7/8	73	5.70	2.59	5.70	2.59
				2 1/2	65	2 13/16	73	2 13/16	73	3	76	6.09	2.76	6.09	2.76
4	100	3	80	4	100	3 13/16	98	3 5/8	92	3 13/16	98	10.40	4.72	10.40	4.72
		4	100	1 1/2	40	2 1/2	65	2 1/2	65	3 3/8	86	7.47	3.39	7.47	3.39
				2	50	2 3/4	70	2 3/4	70	3 7/16	87	8.39	3.80	8.39	3.80
				2 1/2	65	3 1/16	78	3 1/16	78	3 1/2	89	9.60	4.35	9.60	4.35
				3	80	3 5/16	84	3 5/16	84	3 5/8	92	11.02	5.00	11.02	5.00

See additional sizes on previous page.

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.

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Malleable Iron

Class 150 (Standard)

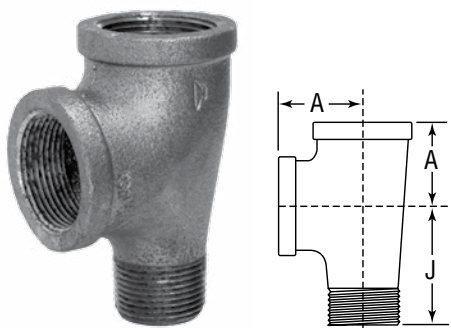
FIGURE 1106 (Straight) FIGURE 1106R (Reducing) Street or Service Tee	Size		A		J		Unit Weight			
							Black		Galv.	
	NPS	DN	in	mm	in	mm	lbs	kg	lbs	kg
	1/4	8	1 3/16	30	1 3/16	30	0.15	0.07	0.15	0.07
	3/8	10	1 5/16	33	1 7/16	37	0.24	0.11	0.24	0.11
	1/2	15	1 1/8	29	1 5/8	41	0.34	0.15	0.34	0.15
	3/4	20	1 5/16	33	1 7/8	48	0.61	0.28	0.61	0.28
	1	25	1 1/2	38	2 1/8	54	0.96	0.44	0.96	0.44
	1 1/4	32	1 3/4	44	2 7/16	62	1.39	0.63	1.39	0.63
	1 1/2	40	1 15/16	49	2 11/16	68	1.93	0.88	1.93	0.88
	2	50	2 1/4	57	3 1/4	83	3.16	1.43	3.16	1.43
	Size		Run		Outlet		Unit Weight			
	female run x male run x outlet		A		J		A		Black	Galv.
	NPS	DN	in	mm	in	mm	in	mm	lbs	kg
	1 1/4 x 1 x 1 1/4	32 x 25 x 32	1 3/4	44	2 5/16	59	1 3/4	44	1.34	0.61

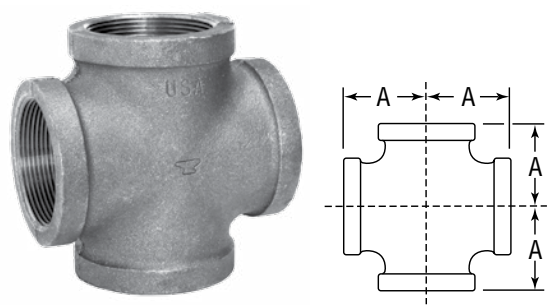
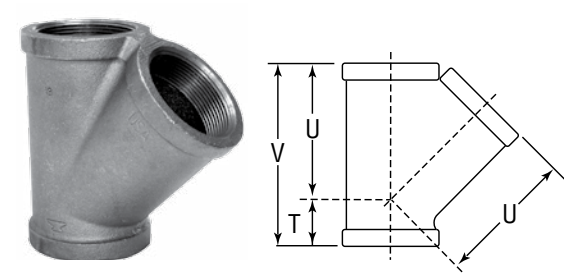
FIGURE 1107 Cross	Size		A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/8	6	1 1/16	17	0.12	0.05	0.12	0.05
	1/4	8	1 3/16	22	0.18	0.08	0.18	0.08
	3/8	10	1 5/16	24	0.28	0.13	0.28	0.13
	1/2	15	1 1/8	29	0.42	0.19	0.42	0.19
	3/4	20	1 5/16	33	0.69	0.31	0.69	0.31
	1	25	1 1/2	38	1.12	0.51	1.12	0.51
	1 1/4	32	1 3/4	44	1.44	0.65	1.44	0.65
	1 1/2	40	1 15/16	49	1.98	0.90	1.98	0.90
	2	50	2 1/4	57	3.30	1.50	3.30	1.50
	2 1/2	65	2 11/16	68	5.90	2.68	5.90	2.68
	3	80	3 1/16	78	7.94	3.60	7.94	3.60
	4	100	3 13/16	98	13.50	6.12	13.50	6.12

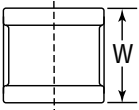
FIGURE 1108 45° Y-Branch or Lateral	Size		T		U		V		Unit Weight			
									Black		Galv.	
	NPS	DN	in	mm	in	mm	in	mm	lbs	kg	lbs	kg
	3/8	10	1/2	13	1 7/16	37	1 15/16	49	0.27	0.12	0.27	0.12
	1/2	15	5/8	16	1 11/16	43	2 5/16	59	0.37	0.17	0.37	0.17
	3/4	20	3/4	19	2 1/16	52	2 3/16	73	0.62	0.28	0.62	0.28
	1	25	7/8	22	2 7/16	62	3 5/16	84	0.86	0.39	0.86	0.39
	1 1/4	32	1	25	2 15/16	75	3 15/16	100	1.63	0.74	1.63	0.74
	1 1/2	40	1 1/8	29	3 1/4	83	4 3/8	111	2.00	0.91	2.00	0.91
	2	50	1 1/4	32	3 15/16	100	5 3/16	132	3.05	1.38	3.05	1.38
	2 1/2	65	1 1/2	38	4 3/4	121	6 1/4	159	5.86	2.66	5.86	2.66
	3	80	1 11/16	43	5 5/16	141	7 1/4	184	9.18	4.16	9.18	4.16
	4	100	2	51	7	178	9	229	15.70	7.12	15.70	7.12

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
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Malleable Iron

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FIGURE 1119 Return Bends Open Pattern, R.H.	Size		Center to Center		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/2	15	1 1/2	38	0.36	0.16	—	—
	3/4	20	2	51	0.64	0.29	—	—
	1	25	2 1/2	64	1.10	0.50	1.10	0.50
	1 1/4	32	3	76	1.77	0.80	—	—
	1 1/2	40	3 1/2	90	2.55	1.16	2.55	1.16
	2	50	4	102	4.00	1.81	4.00	1.81

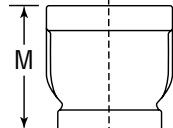
FIGURE 1121 Coupling	Size		W		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
 	1/8*	6	1 5/16	24	0.06	0.03	0.06	0.03
	1/4	8	1 1/16	27	0.09	0.04	0.09	0.04
	3/8	10	1 3/16	30	0.13	0.06	0.13	0.06
	1/2	15	1 5/16	33	0.20	0.09	0.20	0.09
	3/4	20	1 1/2	38	0.30	0.14	0.30	0.14
	1	25	1 11/16	43	0.48	0.22	0.48	0.22
	1 1/4	32	1 15/16	49	0.75	0.34	0.75	0.34
	1 1/2	40	2 1/8	54	1.00	0.45	1.00	0.45
	2	50	2 1/2	64	1.45	0.66	1.45	0.66
	2 1/2	65	2 7/8	73	2.40	1.09	2.40	1.09
	3	80	3 3/16	81	3.30	1.50	3.30	1.50
	4	100	3 11/16	94	5.72	2.59	5.72	2.59

* Offered in steel only.

FIGURE 1124 Cap	Size		Unit Weight			
			Black		Galv.	
	NPS	DN	lbs	kg	lbs	kg
	1/2	15	0.12	0.05	0.12	0.05
	3/4	20	0.22	0.10	0.22	0.10
	1	25	0.38	0.17	0.38	0.17
	1 1/4	32	0.58	0.26	0.58	0.26
	1 1/2	40	0.73	0.33	0.73	0.33
	2	50	1.13	0.51	1.13	0.51
	2 1/2	65	1.75	0.79	1.75	0.79
	3	80	2.62	1.19	2.62	1.19
	3 1/2	90	3.19	1.45	3.19	1.45
	4	100	4.54	2.06	4.54	2.06
	5	125	6.45	2.93	6.45	2.93
	6	150	10.00	4.54	10.00	4.54

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
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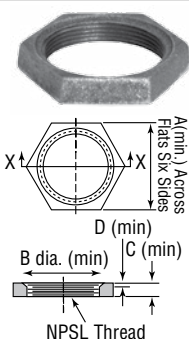
Malleable Iron Class 150 (Standard)

FIGURE 1125 Reducer	Size				M		Unit Weight			
							Black		Galv.	
	NPS	DN	NPS	DN	in	mm	lbs	kg	lbs	kg
   * Sizes 1/2 x 1/4, 3/4 x 1/2 and 1 x 3/4 do not have bands at the reducing end.	1/4	8	1/8	6	1	25	0.07	0.03	0.07	0.03
	3/8	10	1/8	6	1 1/8	29	0.11	0.05	0.11	0.05
			1/4	8			0.11	0.05	0.11	0.05
	1/2	15	1/8	6	1 1/4	32	0.14	0.06	0.14	0.06
			1/4*	8			0.15	0.07	0.15	0.07
			3/8	10			0.17	0.08	0.17	0.08
	3/4	20	1/8	6	1 7/16	37	0.24	0.11	0.24	0.11
			1/4	8			0.22	0.10	0.22	0.10
			3/8	10			0.25	0.11	0.25	0.11
			1/2*	15			0.27	0.12	0.27	0.12
	1	25	1/4	8	1 11/16	43	0.35	0.16	0.35	0.16
			3/8	10			0.35	0.16	0.35	0.16
			1/2	15			0.39	0.18	0.39	0.18
			3/4*	20			0.43	0.20	0.43	0.20
	1 1/4	32	1/2	15	2 1/16	52	0.61	0.28	0.61	0.28
			3/4	20			0.64	0.29	0.64	0.29
			1	25			0.68	0.31	0.68	0.31
	1 1/2	40	1/2	15	2 5/16	59	0.78	0.35	0.78	0.35
			3/4	20			0.88	0.40	0.88	0.40
			1	25			0.88	0.40	0.88	0.40
			1 1/4	32			0.90	0.41	0.90	0.41
	2	50	1/2	15	2 13/16	73	1.30	0.59	1.30	0.59
			3/4	20			1.34	0.61	1.34	0.61
			1	25			1.40	0.63	1.40	0.63
			1 1/4	32			1.53	0.69	1.53	0.69
			1 1/2	40			1.55	0.70	1.55	0.70
	2 1/2	65	1	25	3 1/4	83	2.12	0.96	2.12	0.96
			1 1/4	32			2.09	0.95	2.09	0.95
			1 1/2	40			2.09	0.95	2.09	0.95
			2	50			2.51	1.14	2.51	1.14
	3	80	1	25	3 11/16	94	3.16	1.43	3.16	1.43
			1 1/4	32			2.99	1.36	2.99	1.36
			1 1/2	40			3.30	1.50	3.30	1.50
			2	50			3.25	1.47	3.25	1.47
			2 1/2	65			3.31	1.50	3.31	1.50
	3 1/2	90	2	50	4	102	4.32	1.96	4.32	1.96
			2 1/2	65			4.72	2.14	4.72	2.14
			3	80			4.99	2.26	4.99	2.26
	4	100	1 1/2	40	4 3/8	111	4.90	2.22	4.90	2.22
			2	50			5.10	2.31	5.10	2.31
			2 1/2	65			5.93	2.69	5.93	2.69
			3	80			6.55	2.97	6.55	2.97
			3 1/2	90			6.30	2.86	6.30	2.86
	5	125	4	100	4 9/16	116	9.57	4.34	9.57	4.34
	6	150	4	100	4 13/16	124	10.30	4.67	10.30	4.67

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

MALLEABLE IRON

Malleable Iron Class 150 (Standard)

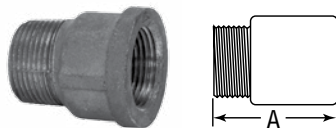
FIGURE 1134 Hex Locknut	Size		Minimum Dimensions								Unit Weight			
			A		B		C		D		Black		Galv.	
	NPS	DN	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg
 For additional sizes larger than 2" (50 DN) see Cast Iron page 51. Not to be used for pressure service.	• ¼	8	.840	21	.660	17	.250	6	.060	2	0.02	0.01	0.02	0.01
	• ⅜	10	1.000	25	.770	20	.280	7	.060	2	0.04	0.02	0.04	0.02
	• ½	15	1.180	30	.970	25	.310	8	.060	2	0.06	0.03	0.06	0.03
	¾	20	1.430	36	1.230	31	.340	9	.060	2	0.08	0.04	0.08	0.04
	1	25	1.750	44	1.500	38	.380	10	.060	2	0.14	0.06	0.14	0.06
	1¼	32	2.100	53	1.860	47	.420	11	.060	2	0.21	0.10	0.21	0.10
	1½	40	2.350	60	2.120	54	.470	12	.060	2	0.24	0.11	0.24	0.11
	2	50	2.880	73	2.630	67	.530	13	.090	2	0.40	0.18	0.40	0.18

• Supplied in steel only.

FIGURE 1190 Floor Flange (Ductile Iron)	Size		Dia. of Flange		Diameter of Bolt Circle		No. of Holes		Dia. of Holes		Unit Weight			
											Black		Galv.	
	NPS	DN	in	mm	in	mm			in	mm	lbs	kg	lbs	kg
	1/4	8	2 3/16	56	1 7/8	48	4	1/4	6	0.39	0.18	0.39	0.18	
	3/8	10	3	76	2	51	4	1/4	6	0.43	0.20	0.43	0.20	
	1/2	15	3 1/2	89	2 1/2	64	4	1/4	6	0.56	0.25	0.56	0.25	
	3/4	20	3 1/2	89	2 1/2	64	4	1/4	6	0.60	0.27	0.60	0.27	
	1	25	4	102	3	76	4	1/4	6	0.84	0.38	0.84	0.38	
	1 1/4	32	4	102	3	76	4	1/4	6	0.90	0.41	0.90	0.41	
	1 1/2	40	4 1/2	114	3 1/2	89	4	5/16	8	1.20	0.54	1.20	0.54	
	2	50	5 1/2	140	4 1/4	108	4	5/16	8	2.03	0.92	2.03	0.92	

Structural use only.

FIGURE 1133 Waste Nut	Size		Unit Weight			
			Black		Galv.	
	NPS	DN	lbs	kg	lbs	kg
 Not to be used for pressure service.	½	15	0.12	0.05	—	—
	¾	20	0.15	0.07	0.15	0.07

FIGURE 1138 Extension Piece	Size		A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	½	15	1⅝	41	0.19	0.09	0.19	0.09
	¾	20	1⅝	49	0.35	0.16	0.35	0.16
	1	25	2⅞	52	0.48	0.22	0.48	0.22

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
All Elbows & Tees ⅜" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron

Class 300 (XS / XH)

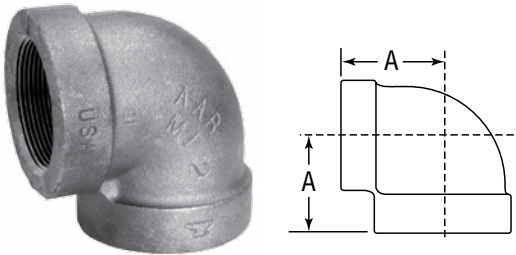
FIGURE 1161 90° Elbow Straight	Size		A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/4	8	1 5/16	24	0.20	0.09	0.20	0.09
	3/8	10	1 1/16	27	0.29	0.13	0.29	0.13
	1/2	15	1 1/4	32	0.47	0.21	0.47	0.21
	3/4	20	1 7/16	37	0.66	0.30	0.66	0.30
	1	25	1 5/8	41	1.15	0.52	1.15	0.52
	1 1/4	32	1 15/16	49	1.88	0.85	1.88	0.85
	1 1/2	40	2 1/8	54	2.47	1.12	2.47	1.12
	2	50	2 1/2	64	3.85	1.75	3.85	1.75
	2 1/2	65	2 15/16	75	5.80	2.63	5.80	2.63
	3	80	3 3/8	86	9.95	4.51	9.95	4.51
	4	100	4 1/2	114	16.00	7.26	16.00	7.26

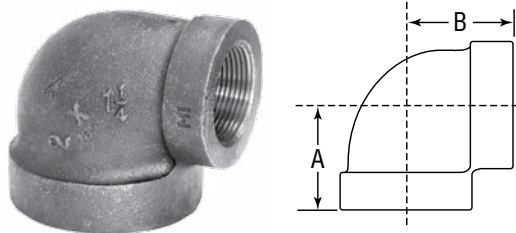
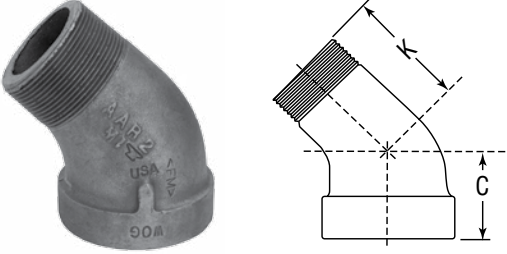
FIGURE 1161R 90° Reducing Elbow	Size		A		B		Unit Weight			
							Black		Galv.	
	NPS	DN	in	mm	in	mm	lbs	kg	lbs	kg
	3/8 x 1/4	10 x 8	1	25	1	25	0.26	0.12	—	—
	1/2 x 3/8	15 x 10	1 1/16	30	1 3/16	30	0.41	0.19	—	—
	3/4 x 1/2	20 x 15	1 5/16	33	1 3/8	35	0.62	0.28	0.62	0.28
	1 x 1/2	25 x 15	1 7/16	37	1 1/2	38	0.87	0.39	—	—
	1 x 3/4	25 x 20	1 1/2	38	1 9/16	40	1.00	0.45	1.00	.45
	1 1/4 x 3/4	32 x 20	1 5/8	41	1 3/4	44	1.41	0.64	—	—
	1 1/4 x 1	32 x 25	1 3/4	44	1 7/8	47	1.60	0.73	—	—
	1 1/2 x 1	40 x 25	1 7/8	47	2	51	1.89	0.86	—	—
	1 1/2 x 1 1/4	40 x 32	2	51	2 1/16	52	2.15	0.98	—	—
	2 x 1 1/4	50 x 32	2 1/8	54	2 5/16	59	3.12	1.41	3.12	1.41
	2 x 1 1/2	50 x 40	2 1/4	57	2 3/8	60	3.30	1.50	—	—

FIGURE 1160 45° Street Elbow	Size		C		K		Unit Weight	
							Black	
	NPS	DN	in	mm	in	mm	lbs	kg
	1/2	15	1	25	1 3/8	35	0.36	0.16
	3/4	20	1 1/8	29	1 9/16	40	0.54	0.24
	1	25	1 5/16	33	1 13/16	47	0.85	0.39
	1 1/4	32	1 1/2	38	2 1/8	54	1.50	0.68
	1 1/2	40	1 11/16	43	2 5/16	59	2.06	0.93
	2	50	2	51	2 11/16	68	3.34	1.51

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
 All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

MALLEABLE IRON

Malleable Iron

Class 300 (XS / XH)

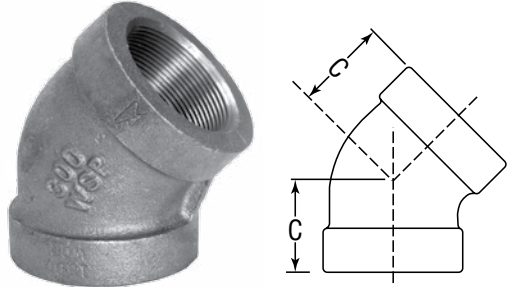
FIGURE 1162 45° Elbow	Size		C		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/4	8	13/16	22	0.19	0.09	0.19	0.09
	3/8	10	7/8	22	0.28	0.13	0.28	0.13
	1/2	15	1	25	0.43	0.20	0.43	0.20
	3/4	20	1 1/8	29	0.66	0.30	0.66	0.30
	1	25	1 5/16	33	1.00	0.45	1.00	0.45
	1 1/4	32	1 1/2	38	1.67	0.76	1.67	0.76
	1 1/2	40	1 11/16	43	2.15	0.98	2.15	0.98
	2	50	2	51	3.40	1.54	3.40	1.54
	2 1/2	65	2 1/4	57	5.51	2.50	5.51	2.50
	3	80	2 1/2	64	8.10	3.67	8.10	3.67
	4	100	2 13/16	73	13.41	6.08	13.41	6.08

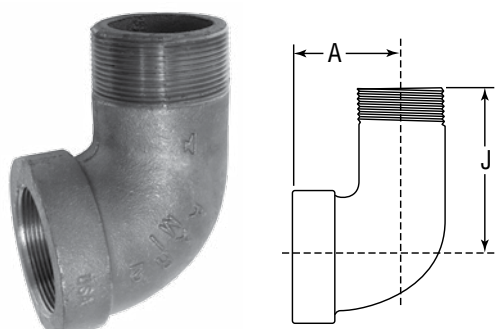
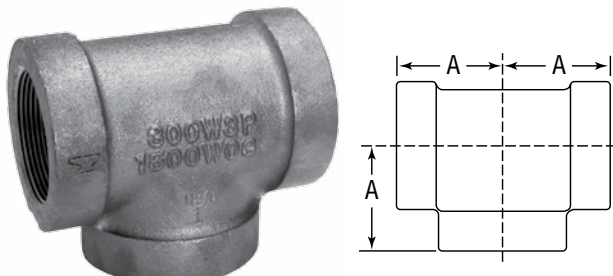
FIGURE 1170 90° Street Elbow	Size		A		J		Unit Weight			
							Black		Galv.	
	NPS	DN	in	mm	in	mm	lbs	kg	lbs	kg
	1/4	8	15/16	24	1 7/16	37	0.17	0.08	0.17	0.08
	3/8	10	1 1/16	27	1 5/8	41	0.26	0.12	0.26	0.12
	1/2	15	1 1/4	32	2	51	0.40	0.18	0.40	0.18
	3/4	20	1 7/16	37	2 3/16	56	0.68	0.31	0.68	0.31
	1	25	1 5/8	41	2 9/16	65	1.04	0.47	1.04	0.47
	1 1/4	32	1 15/16	49	2 7/8	73	1.60	0.73	1.60	0.73
	1 1/2	40	2 1/8	54	3 1/8	79	2.20	1.00	2.20	1.00
	2	50	2 1/2	64	3 11/16	94	3.59	1.63	3.59	1.63
	3	80	3 3/8	86	5 1/8	130	9.55	4.33	—	—

FIGURE 1164 Straight Tee	Size		Center to End A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/4	8	1 5/16	33	0.27	0.12	0.27	0.12
	3/8	10	1 1/16	27	0.42	0.19	0.42	0.19
	1/2	15	1 1/4	32	0.65	0.29	0.65	0.29
	3/4	20	1 7/16	37	1.07	0.49	1.07	0.49
	1	25	1 5/8	41	1.62	0.73	1.62	0.73
	1 1/4	32	1 15/16	49	2.49	1.13	2.49	1.13
	1 1/2	40	2 1/8	54	3.40	1.54	3.40	1.54
	2	50	2 1/2	64	5.20	2.36	5.20	2.36
	2 1/2	65	2 15/16	75	7.87	3.57	7.87	3.57
	3	80	3 3/8	86	12.46	5.65	12.46	5.65
	4	100	4 1/2	114	24.02	10.89	24.02	10.89

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
 All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron

Class 300 (XS / XH)

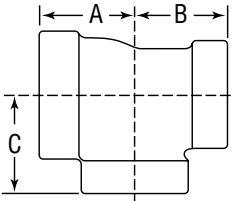
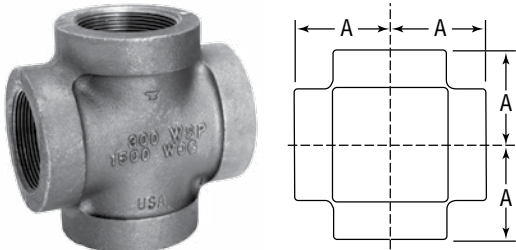
FIGURE 1164R Reducing Tee	Size						Center to End						Unit Weight			
							A		B		C		Black		Galv.	
	NPS	DN	NPS	DN	NPS	DN	in	mm	in	mm	in	mm	lbs	kg	lbs	kg
 	3/8	10	3/8	10	1/4	8	1	25	1	25	1	25	0.37	0.17	—	—
	1/2	15	1/2	15	1/4	8	1 1/16	27	1 1/16	27	1 1/8	29	0.48	0.22	—	—
					3/8	10	1 3/16	30	1 3/16	30	1 3/16	30	0.61	0.28	—	—
					3/4	20	1 3/8	35	1 3/8	35	1 5/16	33	0.80	0.36	—	—
	3/4	20	1/2	15	1/2	15	1 5/16	33	1 1/4	32	1 3/8	35	0.78	0.35	—	—
					3/4	20	1 7/16	37	1 3/8	35	1 7/16	37	0.93	0.42	—	—
			3/4	20	1/4	8	1 3/16	30	1 3/16	30	1 1/4	32	0.76	0.34	—	—
					3/8	10	1 1/4	32	1 1/4	32	1 5/16	33	0.80	0.36	—	—
					1/2	15	1 5/16	33	1 5/16	33	1 3/8	35	0.90	0.41	0.9	0.41
					1	25	1 1/2	38	1 1/2	38	1 5/8	41	1.36	0.62	—	—
	1	25	3/4	20	3/4	20	1 1/2	38	1 7/16	37	1 9/16	40	1.27	0.58	—	—
					1	25	1 5/8	41	1 9/16	40	1 5/8	41	1.38	0.63	—	—
			1	25	1/4	8	1 1/4	32	1 1/4	32	1 3/8	35	1.09	0.49	—	—
					1/2	15	1 7/16	37	1 7/16	37	1 1/2	38	1.26	0.57	1.26	0.57
					3/4	20	1 1/2	38	1 1/2	38	1 9/16	40	1.33	0.60	1.33	0.60
					1	25	1 1/2	38	1 1/2	38	1 9/16	40	1.33	0.60	1.33	0.60
	1 1/4	32	1	25	1	25	1 3/4	44	1 5/8	41	1 13/16	47	1.92	0.87	—	—
					1 1/4	32	1 1/2	38	1 1/2	38	1 11/16	43	1.70	0.77	1.70	0.77
			1 1/4	32	3/4	20	1 5/8	41	1 5/8	41	1 3/4	44	1.90	0.86	1.90	0.86
					1	25	1 3/4	44	1 3/4	44	1 13/16	47	2.10	0.95	2.10	0.95
					1 1/2	40	1 5/8	41	1 5/8	41	1 13/16	47	2.27	1.03	2.27	1.03
					3/4	20	1 11/16	43	1 11/16	43	1 7/8	48	2.46	1.12	2.46	1.12
	1 1/2	40	1 1/2	40	1	25	1 13/16	47	1 13/16	47	2	51	2.60	1.18	2.60	1.18
					1 1/4	32	2	51	2	51	2 1/16	52	3.05	1.38	3.05	1.38
					1 1/2	40	2 1/2	64	2 3/8	60	2 1/2	64	4.50	2.04	—	—
					2	50	1 1/2	38	1 3/4	44	2 1/16	52	3.35	1.52	3.35	1.52
			2	50	3/4	20	1 13/16	47	1 13/16	47	2 1/8	54	3.56	1.61	3.56	1.61
					1	25	2	51	2	51	2 1/4	57	3.70	1.68	3.70	1.68
	2	50	2	50	1 1/4	32	2 1/8	54	2 1/8	54	2 5/16	59	4.22	1.91	4.22	1.91
					1 1/2	40	2 1/4	57	2 1/4	57	2 3/8	60	4.60	2.09	4.60	2.09
					1 1/2	40	2 7/16	62	2 7/16	62	2 5/8	67	6.35	2.88	—	—
					2	50	2 11/16	68	2 11/16	68	2 3/4	70	7.60	3.45	—	—
			2 1/2	65	1 1/2	40	2 7/16	62	2 7/16	62	2 5/8	67	6.35	2.88	—	—
					2	50	2 11/16	68	2 11/16	68	2 3/4	70	7.60	3.45	—	—
	3	80	3	80	2	50	2 13/16	73	2 13/16	73	3 1/8	79	9.60	4.35	9.60	4.36

FIGURE 1165 Cross		Size		Center to End A		Unit Weight			
						Black		Galv.	
						NPS	DN	in	mm
	1/4	8	15/16	24	0.35	0.16	—	—	
	3/4	20	17/16	37	1.25	0.57	1.25	0.57	
	1	25	15/8	41	1.90	0.86	—	—	
	1 1/4	32	115/16	49	3.23	1.46	—	—	
	1 1/2	40	21/8	54	4.20	1.90	—	—	
	2	50	21/2	64	6.49	2.94	—	—	

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
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MALLEABLE IRON

Malleable Iron

Class 300 (XS / XH)

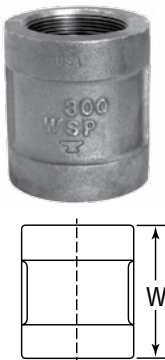
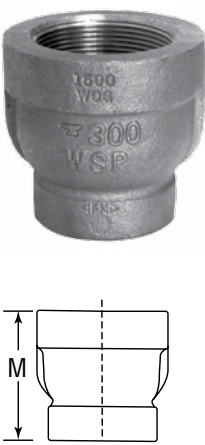
FIGURE 1166 Coupling	Size		End to End W		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/4	8	1 3/8	35	0.17	0.08	0.17	0.08
	3/8	10	1 5/8	41	0.26	0.12	0.26	0.12
	1/2	15	1 7/8	48	0.40	0.18	0.40	0.18
	3/4	20	2 1/8	54	0.65	0.29	0.65	0.29
	1	25	2 3/8	60	0.99	0.45	0.99	0.45
	1 1/4	32	2 7/8	73	1.66	0.75	1.66	0.75
	1 1/2	40	2 7/8	73	2.03	0.92	2.03	0.92
	2	50	3 5/8	92	3.24	1.47	3.24	1.47
	2 1/2	65	4 1/8	105	5.45	2.47	5.45	2.47
	3	80	4 1/8	105	7.30	3.31	7.30	3.31

FIGURE 1167 Reducer	Size				End to End M		Unit Weight			
							Black		Galv.	
	NPS	DN	NPS	DN	in	mm	lbs	kg	lbs	kg
	3/8	10	1/4	8	1 7/16	37	0.21	0.10	0.21	0.10
	1/2	15	1/4	8	1 11/16	43	0.31	0.14	0.31	0.14
			3/8	10			0.34	0.15	0.34	0.15
	3/4	20	1/4	8	1 3/4	44	0.46	0.21	—	—
			3/8	10			0.47	0.21	0.47	0.21
			1/2	15			0.50	0.23	0.50	0.23
	1	25	1/4	8	2	51	0.66	0.30	0.66	0.30
			3/8	10			0.71	0.32	0.71	0.32
			1/2	15			0.71	0.32	0.71	0.32
			3/4	20			0.77	0.35	0.77	0.35
	1 1/4	32	1/2	15	2 3/8	60	1.12	0.51	1.12	0.51
			3/4	20			1.16	0.53	1.16	0.53
			1	25			1.27	0.58	1.27	0.58
	1 1/2	40	1/2	15	2 11/16	68	1.51	0.68	1.51	0.68
			3/4	20			1.57	0.71	1.57	0.71
			1	25			1.62	0.73	1.62	0.73
	2	50	1 1/4	32	3 3/16	81	1.78	0.81	1.78	0.81
			1 1/2	40			2.39	1.08	2.39	1.08
			3/4	20			2.44	1.11	2.44	1.11
			1	25			2.54	1.15	2.54	1.15
			1 1/4	32			2.66	1.21	2.66	1.21
	2 1/2	65	1 1/2	40	3 11/16	94	2.72	1.23	2.72	1.23
			2	50			4.09	1.85	4.09	1.85
			2 1/2	65			4.32	1.96	—	—
	3	80	1 1/2	40	4 1/16	103	5.79	2.63	—	—
			2	50			5.83	2.64	5.83	2.64
			2 1/2	65			6.45	2.93	6.45	2.93
	4	100	2	50	4 3/8	111	9.50	4.31	—	—
			3	80			10.00	4.54	—	—

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.

All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron

Class 300 (XS / XH)

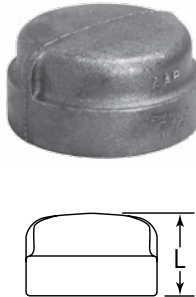
FIGURE 1163 Cap	Size		Height L		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/4	8	25/32	20	0.10	0.05	0.10	0.05
	3/8	10	13/16	22	0.15	0.07	0.15	0.07
	1/2	15	1	25	0.23	0.10	0.23	0.10
	3/4	20	1 1/16	27	0.35	0.16	0.35	0.16
	1	25	1 1/4	32	0.58	0.26	0.58	0.26
	1 1/4	32	1 3/8	35	1.00	0.45	1.00	0.45
	1 1/2	40	1 7/16	37	1.18	0.54	1.18	0.54
	2	50	1 11/16	43	1.94	0.88	1.94	0.88
	2 1/2	65	2 1/16	52	3.32	1.51	3.32	1.51
	3	80	2 3/16	56	4.71	2.14	4.71	2.14

FIGURE 390 Square Countersunk Plugs	Size		Unit Weight			
			Black		Galv.	
	NPS	DN	lbs	kg	lbs	kg
 See page 50 (Cast Iron) for other available sizes.	1/2	15	0.05	0.02	0.05	0.02
	3/4	20	0.11	0.05	0.11	0.05

All Iron Unions

FIGURE J-3300 All Iron Union Class 300	Size		End to End		Unit Weight	
					Black	
	NPS	DN	in	mm	lbs	kg
	1/4	8	1 5/8	41	0.27	0.12
	3/8	10	1 13/16	47	0.37	0.17
	1/2	15	2 1/8	54	0.51	0.23
	3/4	20	2 7/16	62	0.76	0.34
	1	25	2 3/4	70	1.20	0.54
	1 1/4	32	3	76	1.87	0.85
	1 1/2	40	3 3/16	81	2.51	1.14
	2	50	3 1/2	89	4.30	1.95
	2 1/2	65	3 11/16	94	6.02	2.73
	3	80	3 15/16	100	7.96	3.61

Note: See page 16 for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
 All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

Malleable Iron Unions

Class 150; 250; 300

BRONZE TO IRON								
Unions	Size		End to End		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
FIGURE 463 ■ Class 150 Union 150lb. wsp · 300lb. wog non-shock   For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil Sales Representative.	1/8	6	1 5/16	33	0.15	0.07	0.15	0.07
	1/4	8	1 13/16	47	0.48	0.22	0.48	0.22
	3/8	10	1 13/16	47	0.42	0.19	0.42	0.19
	1/2	15	1 15/16	49	0.42	0.19	0.42	0.19
	3/4	20	2 1/16	52	0.60	0.27	0.60	0.27
	3/4 x 1/2	20 x 15	2 1/16	52	0.55	0.25	0.55	0.25
	1	25	2 7/16	62	1.12	0.51	1.12	0.51
	1 1/4	32	2 5/8	67	1.74	0.79	1.74	0.79
	1 1/2	40	2 3/4	70	2.08	0.94	2.08	0.94
	2	50	2 15/16	75	3.00	1.36	3.00	1.36
	2 1/2	65	3 3/8	92	3.60	1.63	3.60	1.63
	3	80	3 3/4	95	4.95	2.24	4.95	2.24
FIGURE 554 ■ Class 250 Union 250 lb. wsp · 500lb. wog non-shock   For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil Sales Representative.	1/8	6	1 5/16	33	0.14	0.06	—	—
	1/4	8	1 13/16	47	0.48	0.22	0.48	0.22
	3/8	10	1 13/16	47	0.42	0.19	0.42	0.19
	1/2	15	2 1/16	52	0.64	0.29	0.64	0.29
	3/4	20	2 1/4	57	1.00	0.45	1.00	0.45
	1	25	2 9/16	65	1.56	0.71	1.56	0.71
	1 1/4	32	2 3/4	70	2.30	1.04	2.30	1.04
	1 1/2	40	3	76	2.74	1.24	2.74	1.24
	2	50	3 3/8	86	4.34	1.97	4.34	1.97
	2 1/2	65	3 7/8	98	5.30	2.40	5.30	2.40
	3	80	4 1/4	108	7.60	3.45	7.60	3.45
	4	100	4 7/8	124	17.50	7.94	17.50	7.94
FIGURE 459 ■ Class 300 Union 300lb. wsp · 600lb. wog non-shock   For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil Sales Representative.	1/8	6	1 5/16	33	0.14	0.06	0.14	0.06
	1/4	8	1 13/16	47	0.48	0.22	0.48	0.22
	3/8	10	1 13/16	47	0.42	0.19	0.42	0.19
	1/2	15	2 1/16	52	0.64	0.29	0.64	0.29
	3/4	20	2 1/4	57	1.00	0.45	1.00	0.45
	1	25	2 9/16	65	1.56	0.71	1.56	0.71
	1 1/4	32	2 3/4	70	2.30	1.04	2.30	1.04
	1 1/2	40	3	76	2.74	1.24	2.74	1.24
	2	50	3 3/8	86	4.34	1.97	4.34	1.97
	2 1/2	65	3 7/8	98	5.05	2.29	5.05	2.29
	3	80	4 1/4	108	7.66	3.47	7.66	3.47
	4	100	4 7/8	124	17.70	8.03	17.70	8.03
FIGURE 551 ■ Class 300 Union male & female 300lb. wsp · 600lb. wog non-shock  	1/2	15	3	76	0.62	0.28	—	—
	3/4	20	3 3/16	81	0.92	0.42	—	—
	1	25	3 5/8	92	1.54	0.70	—	—
	1 1/2	40	4 1/4	108	2.60	1.18	—	—
	2	50	4 5/8	117	4.21	1.91	—	—

- Pressure & Temperature rates shown on page 16.
- Anvil Malleable Iron Unions conform to ASME B 16.39.
- Dimensions conform to ASME B 16.39 for Class 150, 250 & 300 Unions.

wsp=working steam pressure wog=water, oil, gas

Malleable Iron Unions

Class 150; 250; 300

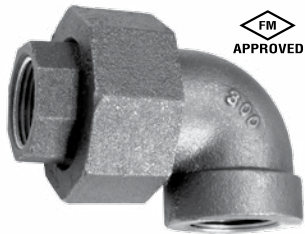
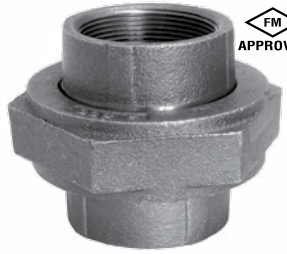
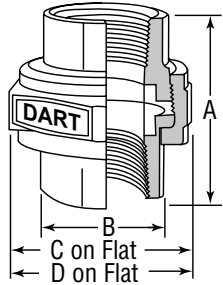
BRONZE TO IRON								
FIGURE 552 Class 300 90° Elbow Female Union 300lb. wsp	Size		Center to End				Unit Weight	
			Elbow		Union		Black	
	NPS	DN	in	mm	in	mm	lbs	kg
	3⁄8	10	1⅛	27	2⅛	52	0.51	0.23
	½	15	1¼	32	2⅝	59	0.79	0.36
	¾	20	1⅞	37	2¾	70	1.24	0.56
	1	25	1⅝	41	3	76	1.88	0.85

FIGURE 832 Dart Union Bronze to Bronze Seat Union	Size		A		B		C		D		Unit Weight			
											Black		Galv.	
	NPS	DN	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg
 	3/8	10	1 3/4	44	1 5/16	24	1 1/2	38	1 3/4	44	0.41	0.19	0.43	0.20
	1/2	15	2 1/8	54	1 1/8	29	1 3/16	30	2	51	0.58	0.26	0.61	0.28
	3/4	20	2 5/16	59	1 3/8	35	2 3/16	56	2 1/2	64	0.82	0.37	0.86	0.39
	1	25	2 5/8	67	1 11/16	43	2 9/16	65	3	76	1.31	0.59	1.36	0.62
	1 1/4	32	2 13/16	73	2 1/16	52	3 1/16	78	3 1/2	89	1.90	0.86	2.00	0.91
	1 1/2	40	3	76	2 3/16	56	3 3/8	86	4	102	2.32	1.05	2.43	1.10
	2	50	3 5/8	92	2 7/8	73	4 1/16	103	4 5/8	117	4.00	1.81	4.20	1.90

- Meets ASME B16.39 The standard union for most installations
 $\frac{3}{8}$ – 2 NPS (10 – 50 DN) – 300lb (136 kg) steam working pressure at 450°F.
 $\frac{3}{8}$ – 2 NPS (10 – 50 DN) – 600lb (272 kg) cold water, gas, or oil pressure - non-shock.
- Bronze Seat, on both sides of the joint. Resists corrosion.
- True bearing surfaces, unlike ordinary union seats.
- Bodies and nuts are high test air-refined malleable iron - generally superior to mild steel in most services.
- Can be repeatedly installed and removed.
- Straight way through. No cored parts to hold liquid or sediment.
- Extra heavy shoulder on swivel end and in the nut to stand pipe strains, vibration, and wrench abuse.
- Bronze Seat Ball Joint, with extra wide seating surfaces.

Malleable Hex and Face Bushing

FIGURE 383 Hex Bushing	Size					Unit Weight			
						Black		Galv.	
	NPS	DN	Hex Type	NPS	DN	lbs	kg	lbs	kg
Outside Hex Type A  Inside Hex Type B  See page 48-49 (Cast Iron) for other available sizes.	$\frac{3}{4}$	10	A	$\frac{1}{8}$	6	0.12	0.05	0.12	0.05
			A	$\frac{1}{4}$	8	0.14	0.06	0.14	0.06
			A	$\frac{3}{8}$	10	0.11	0.05	0.11	0.05
			A	$\frac{1}{2}$	15	0.09	0.04	0.09	0.04
	1	25	B	$\frac{1}{8}$	6	0.24	0.11	0.24	0.11
			B	$\frac{1}{4}$	8	0.18	0.08	0.18	0.08
			B	$\frac{3}{8}$	10	0.18	0.08	0.18	0.08
			A	$\frac{1}{2}$	15	0.20	0.09	0.20	0.09
			A	$\frac{3}{4}$	20	0.16	0.07	0.16	0.07
	$1\frac{1}{4}$	32	B	$\frac{1}{4}$	8	0.33	0.15	0.33	0.15
			B	$\frac{3}{8}$	10	0.27	0.12	0.27	0.12
			B	$\frac{1}{2}$	15	0.34	0.15	0.34	0.15
			A	$\frac{3}{4}$	20	0.39	0.18	0.39	0.18
			A	1	25	0.30	0.14	0.30	0.14
	$1\frac{1}{2}$	40	A	$1\frac{1}{4}$	32	0.30	0.14	0.30	0.14
	2	50	A	$1\frac{1}{2}$	40	0.64	0.29	0.64	0.29
	$2\frac{1}{2}$	65	A	2	50	1.02	0.46	1.02	0.46

FIGURE 385 Face Bushing	Size				Unit Weight			
					Black		Galv.	
	NPS	DN	NPS	DN	lbs	kg	lbs	kg
 See page 49 (Cast Iron) for other available sizes.	$\frac{3}{4}$	20	$\frac{3}{8}$	10	0.08	0.04	—	—
			$\frac{1}{2}$	15	0.06	0.03	0.06	0.03
	1	25	$\frac{1}{2}$	15	0.16	0.07	0.16	0.07
			$\frac{3}{4}$	20	0.10	0.05	0.10	0.05
	$1\frac{1}{4}$	32	$\frac{1}{2}$	15	0.30	0.14	—	—
			$\frac{3}{4}$	20	0.27	0.12	—	—
			1	25	0.19	0.09	0.19	0.09
	$1\frac{1}{2}$	40	$\frac{1}{2}$	15	0.40	0.18	—	—
			$\frac{3}{4}$	20	0.39	0.18	—	—
			1	25	0.33	0.15	—	—
			$1\frac{1}{4}$	32	0.16	0.07	0.16	0.07
	2	50	1	25	0.65	0.29	0.65	0.29
			$1\frac{1}{4}$	32	0.53	0.24	0.53	0.24
			$1\frac{1}{2}$	40	0.40	0.18	0.40	0.18
	$2\frac{1}{2}$	65	$1\frac{1}{4}$	32	1.10	0.50	—	—
			2	50	0.40	0.18	0.40	0.18
	3	80	$2\frac{1}{2}$	65	0.99	0.45	—	—

Note: Hexagon head or octagon head bushings $2\frac{1}{2}$ NPS (65 DN) and smaller reducing one size may be made of malleable iron, ductile iron or steel. Other sizes may be made of cast iron, ductile iron, malleable iron or steel. Face bushings $2\frac{1}{2}$ NPS (65 DN) and smaller may be made of malleable iron, ductile iron or steel. Face bushings 3NPS (80 DN) and larger reducing one size may be made of malleable iron, ductile iron or steel. Face bushings 3NPS (80 DN) and larger reducing two sizes or more may be made of cast or malleable iron, ductile iron, or steel. According to specifications, hex bushings and cored plugs should be used with 150# malleable iron and 125# cast iron. Solid plugs and face bushings are recommended for use with 250# and 300# fittings.