

ELBOW

90° ELBOWS				45° ELBOWS				90° REDUCING ELBOWS					90° REDUCING ELBOWS				
Size		Dimension		Size		Dimension		Size		Dimensions			Size		Dimensions		
NPS	DN	A	Approx. Weight	NPS	DN	C	Approx. Weight	NPS	DN	X	Z	Approx. Weight	NPS	DN	X	Z	Approx. Weight
1/8		.69	.07	*1/8		.69	.07	1/4x1/8		.74	.76	.08	1 1/2x1 1/4		1.82	1.88	.95
	3	17.5	.03		*3	17.5	.03		6x3	18.8	19.3	.04		40x32	46.2	47.8	.43
1/4		.81	.11	1/4		.73	.11	3/8x1/4		.88	.90	.11	1 1/2x1		1.65	1.80	.86
	6	20.6	.05		6	18.5	.05		10x6	22.4	22.9	.05		40x25	41.9	45.7	.39
3/8		.95	.15	3/8		.80	.15	3/8x1/8		.81	.85	.12	1 1/2x3/4		1.52	1.75	.66
	10	24.1	.07		10	20.3	.07		10x3	20.5	21.6	.06		40x20	38.6	44.5	.30
1/2		1.12	.22	1/2		.88	.22	1/2x3/8		1.04	1.03	.19	2x1 1/2		2.02	2.16	1.4
	15	28.5	.10		15	22.4	.09		15x10	26.4	26.2	.09		50x40	51.3	54.9	.63
3/4		1.31	.35	3/4		.98	.31	1/2x1/4		.97	.98	.18	2x1 1/4		1.90	2.10	1.3
	20	33.3	.16		20	24.9	.14		15x6	24.6	24.9	.08		50x32	48.3	53.3	.60
1		1.50	.55	1		1.12	.51	3/4x1/2		1.20	1.22	.29	2x1		1.73	2.02	1.1
	25	38.1	.25		25	28.5	.23		20x15	30.5	31.0	.13		50x25	43.9	51.3	.51
1 1/4		1.75	.93	1 1/4		1.29	.75	3/4x3/8		1.12	1.13	.24	2x3/4		1.60	1.97	.90
	32	44.5	.42		32	32.8	.34		20x10	28.5	28.7	.11		50x20	40.6	50.0	.41
1 1/2		1.94	1.1	1 1/2		1.43	.97	3/4x1/2		1.05	1.08	.22	2 1/2x2		2.39	2.60	2.3
	40	49.3	.49		40	36.3	.44		20x6	26.7	27.4	.10		65x50	60.7	66.0	1.04
2		2.25	1.8	2		1.68	1.6	*3/4x1/8		1.13	1.13	.31	2 1/2x1 1/2		2.16	2.51	2.2
	50	57.2	.80		50	42.7	.71		*20x3	28.7	28.7	.14		65x40	54.9	63.8	1.01
2 1/2		2.70	2.9	2 1/2		1.95	2.4	1 x 3/4		1.37	1.45	.46	3x2 1/2		2.83	2.99	3.6
	65	68.6	1.3		65	49.5	1.1		25x20	34.8	36.8	.21		80x65	71.9	75.9	1.62
3		3.08	3.9	3		2.17	3.3	1x1/2		1.26	1.36	.44	3x2		2.52	2.89	2.7
	80	78.2	1.8		80	55.1	1.5		25x15	32.0	35.5	.20		80x50	64.0	73.4	1.21
3 1/2		3.42	6.2	3 1/2		2.39	5.8	1x3/8		1.18	1.27	.41	4x3		3.30	3.60	7.7
	90	86.9	2.8		90	60.7	2.6		25x10	30.0	32.3	.19		100x80	83.8	91.4	.35
4		3.79	8.2	4		2.61	6.2	1 1/4x1		1.58	1.67	.75					
	100	96.3	3.7		100	66.3	2.8		32x25	40.1	42.4	.34					
5		4.50	12.6	5		3.05	11.5	1 1/4x3/4		1.45	1.62	.57					
	125	114.3	5.7		125	77.5	5.2		32x20	36.8	41.2	.26					
6		5.13	19.6	6		3.46	13.9	1 1/4x1/2		1.34	1.53	.51					
	150	130.3	8.9		150	87.9	6.3		32x15	34.0	38.9	.23					

*These sizes not specified in ASME/ANSI B16.3

45° STREET ELBOWS					90° STREET ELBOWS				
Size		Dimensions		Approx. Weight	Size		Dimensions		Approx. Weight
NPS	DN	C	K		NPS	DN	A	J	
*1/8		.69	.88	.06	1/8		.69	1.00	.07
	*3	17.5	22.4	.03		3	17.5	25.4	.03
1/4		.73	.94	.09	1/4		.81	1.19	.09
	6	18.5	23.9	.04		6	20.6	30.2	.04
3/8		.80	1.03	.13	3/8		.95	1.44	.13
	10	20.3	26.2	.06		10	24.1	36.6	.06
1/2		.88	1.15	.17	1/2		1.12	1.63	.22
	15	22.4	29.2	.08		15	28.5	41.2	.10
3/4		.98	1.29	.29	3/4		1.31	1.89	.33
	20	24.9	32.8	.13		20	33.3	48.0	.15
1		1.12	1.47	.46	1		1.50	2.14	.55
	25	28.5	37.3	.21		25	38.1	54.4	.25
1 1/4		1.29	1.71	.79	1 1/4		1.75	2.45	.88
	32	32.8	43.4	.36		32	44.5	62.2	.40
1 1/2		1.43	1.88	.93	1 1/2		1.94	2.69	1.1
	40	36.3	47.8	.42		40	49.3	68.3	.52
2		1.68	2.22	1.5	2		2.25	3.26	1.8
	50	42.7	56.4	.66		50	57.2	82.8	.81
					2 1/2		2.70	3.86	2.9
						65	68.6	98.0	1.3
					3		3.08	4.51	3.9
						80	78.2	114.6	1.8
					4		3.79	5.69	8.4
						100	96.3	144.5	3.8

TEES

Size		Dimension	Approx. Weight
NPS	DN	A	
1/8		.69	.09
	3	17.5	.04
1/4		.81	.11
	6	20.6	.05
3/8		.95	.20
	10	24.1	.09
1/2		1.12	.24
	15	28.5	.11
3/4		1.31	.42
	20	33.3	.19
1		1.50	.66
	25	38.1	.30
1 1/4		1.75	1.1
	32	44.5	.49
1 1/2		1.94	1.3
	40	49.3	.59
2		2.25	2.0
	50	57.2	.91
2 1/2		2.70	3.6
	65	68.6	1.61
3		3.08	5.0
	80	78.2	2.28
3 1/2		3.42	7.2
	90	86.9	3.28
4		3.79	9.3
	100	96.3	4.23
5		4.50	17.2
	125	114.3	7.82
6		5.13	22.9
	150	130.3	10.40

COUPLINGS				REDUCED COUPLINGS				REDUCING COUPLINGS			
Size		W	Approx. Weight	Size		M	Approx. Weight	Size		M	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/8	3	.96	.07	1/4 x 1/8	6 x 3	1.00	.08	2 x 1	50 x 25	2.81	.93
		24.4	.03			25.4	.04			71.4	.42
1/4	6	1.06	.07	3/8 x 1/4	10 x 6	1.13	.11	2 x 3/4	50 x 20	2.81	.81
		26.9	.03			28.7	.05			71.4	.37
3/8	10	1.16	.11	3/8 x 1/8	10 x 3	1.13	.11	2 x 1/2	50 x 15	2.81	.90
		29.5	.05			28.7	.05			71.4	.41
1/2	15	1.34	.18	1/2 x 3/8	15 x 10	1.25	.18	2 1/2 x 2	65 x 50	3.25	1.6
		34.0	.08			31.8	.08			82.6	.72
3/4	20	1.52	.26	1/2 x 1/4	15 x 6	1.25	.13	2 1/2 x 1 1/2	65 x 40	3.25	1.4
		38.6	.12			31.8	.06			82.6	.62
1	25	1.67	.44	1/2 x 1/8	15 x 3	1.25	.13	2 1/2 x 1 1/4	65 x 32	3.25	1.5
		42.4	.20			31.8	.06			82.6	.67
1 1/4	32	1.93	.62	3/4 x 1/2	20 x 15	1.44	.22	2 1/2 x 1	65 x 25	3.25	1.0
		49.0	.28			36.6	.10			82.6	.46
1 1/2	40	2.15	.90	3/4 x 3/8	20 x 10	1.44	.22	3 x 2 1/2	80 x 65	3.69	2.4
		54.6	.41			36.6	.10			93.7	1.07
2	50	2.53	1.2	3/4 x 1/4	20 x 6	1.44	.20	3 x 2	80 x 50	3.69	2.1
		64.3	.56			36.6	.09			93.7	.94
2 1/2	65	2.88	1.9	1 x 3/4	25 x 20	1.69	.35	3 x 1 1/2	80 x 40	3.69	1.9
		73.2	.88			42.9	.16			93.7	.89
3	80	3.18	2.6	1 x 1/2	25 x 15	1.69	.31	3 x 1 1/4	80 x 32	3.69	2.0
		80.8	1.2			42.9	.14			93.7	.92
*3 1/2	*90	3.74	4.5	1 x 3/8	25 x 10	1.69	.31	3 x 1	80 x 25	3.69	2.0
		95.0	2.0			42.9	.14			93.7	.93
4	100	3.69	4.6	1 x 1/4	25 x 6	1.69	.30	*3 1/2 x 3	*90 x 80	4.0	4.9
		93.7	2.1			42.9	.13			101.6	.22
*5	*125	4.25	6.6	1 1/4 x 1	32 x 25	2.06	.55	*3 1/2 x 2 1/2	*90 x 65	4.0	.44
		108.0	3.0			52.3	.25			101.6	2.0
*6	*150	4.75	9.9	1 1/4 x 3/4	32 x 20	2.06	.49	*3 1/2 x 2	*90 x 50	4.0	4.2
		120.7	4.5			52.3	.22			101.6	1.9
				1 1/4 x 1/2	32 x 15	2.06	.44	4 x 3 1/2	100 x 90	4.38	4.2
						52.3	.20			111.3	1.9
				1 1/2 x 1 1/4	40 x 32	2.31	.70	4 x 3	100 x 80	4.38	3.9
						58.7	.32			111.3	1.8
				1 1/2 x 1	40 x 25	2.31	.62	4 x 2 1/2	100 x 65	4.38	3.7
						58.7	.28			111.3	1.7
				1 1/2 x 3/4	40 x 20	2.31	.59	4 x 2	100 x 50	4.38	3.6
						58.7	.27			111.3	1.6
				1 1/2 x 1/2	40 x 15	2.31	.55	4 x 1 1/2	100 x 40	4.38	3.3
						58.7	.25			111.3	1.5
				2 x 1 1/2	50 x 40	2.81	1.0	*These sizes not specified in ASME/ANSI B16.3			
						71.4	.46				
				2 x 1 1/4	50 x 32	2.81	.97				
						71.4	.44				

*These sizes not specified in ASME/ANSI B16.3

POUNDS
KILOGRAMS
INCHES
MILLIMETRES

*UNIONS				CAPS (ANSI B16.3)				FLOOR FLANGES			
Size		L	Approx. Weight	Size		H MIN	Approx. Weight	Size		D	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/4		1.32	.20	1/8		.53	.04	1/4		2.62	.24
	6	33.5	.09		3	13.5	.02		6	66.5	.11
3/8		1.52	.31	1/4		.63	.04	3/8		2.94	.37
	10	38.5	.14		6	16.0	.02		10	74.7	.17
1/2		1.59	.42	3/8		.74	.09	1/2		3.0	.57
	15	40.5	.19		10	18.8	.04		15	76	.26
3/4		1.91	.56	1/2		.87	.11	3/4		3.3	.68
	20	48.5	.27		15	22.1	.05		20	85	.31
1		2.11	.93	3/4		.97	.18	1		3.8	.82
	25	53.5	.42		20	24.6	.08		25	95	.37
1 1/4		2.32	1.3	1		1.16	.31	1 1/4		4.1	1.2
	32	59.0	.57		25	29.5	.14		32	105	.54
1 1/2		2.58	1.7	1 1/4		1.28	.53	1 1/2		4.5	1.5
	40	65.5	.78		32	32.5	.24		40	115	.66
2		2.85	2.6	1 1/2		1.33	.57	2		5.1	2.1
	50	72.5	1.2		40	33.8	.26		50	130	.96
2 1/2		3.29	4.6	2		1.45	.88	2 1/2		6.75	2.6
	65	83.5	2.1		50	36.8	.40		65	171.5	1.1
3		3.66	5.7	2 1/2		1.70	1.5	3		7.00	3.8
	80	93.0	2.6		65	43.2	.70		80	177.8	1.72
4		4.51	10.1	3		1.80	1.9				
	100	114.5	4.6		80	45.7	.86				
				3 1/2		1.90	-				
					90	48.3	-				
				4		2.08	3.5				
					100	52.8	1.6				
				5		2.32	-				
					125	58.9	-				
				6		2.55	7.3				
					150	64.8	3.29				

*Sizes 1" through 4" (DN 25 thru 100) conform to ASME/ANSI B16.39.

HEX HEAD BUSHINGS			HEX HEAD BUSHINGS			SQUARE HEAD PLUGS		
Size		Approx. Weight	Size		Approx. Weight	Size		Approx. Weight
NPS	DN		NPS	DN		NPS	DN	
1/4 x 1/8		.02	2 x 1		.81	*1/8		.02
	6 x 3	.01		50 x 25	.37		3	.01
3/8 x 1/8		.02	2 x 1 1/2		.70	*1/4		.02
	10 x 3	.01		50 x 40	.32		6	.01
3/8 x 1/4		.04	2 1/2 x 1		1.5	3/8		.04
	10 x 6	.02		65 x 25	.70		10	.02
1/2 x 1/8		.09	2 1/2 x 1 1/4		1.5	1/2		.09
	15 x 3	.04		65 x 32	.67		15	.04
1/2 x 1/4		.07	2 1/2 x 1 1/2		1.3	3/4		.11
	15 x 6	.03		65 x 40	.58		20	.05
1/2 x 3/8		.07	2 1/2 x 2		1.1	1		.15
	15 x 10	.03		65 x 50	.49		25	.07
3/4 x 1/8		.15	3 x 1		2.2	1 1/4		.26
	2 x 3	.07		80 x 25	1.0		32	.13
3/4 x 1/4		.15	3 x 1 1/4		2.2	1 1/2		.35
	20 x 6	.07		80 x 32	.99		40	.16
3/4 x 3/8		.13	3 x 1 1/2		2.2	2		.55
	20 x 10	.06		80 x 40	.99		50	.26
3/4 x 1/2		.11	3 x 2		2.0	2 1/2		.97
	20 x 15	.05		80 x 50	.91		65	.44
1 x 1/4		.26	3 x 2 1/2		1.5	3		1.4
	25 x 6	.12		80 x 65	.66		80	.63
1 x 3/8		.24	4 x 1		4.0	3 1/2		2.5
	2 x 10	.11		100 x 25	1.8		90	1.1
1 x 1/2		.22	4 x 1 1/4		4.0	4		2.5
	25 x 15	.10		100 x 32	1.8		100	1.1
1 x 3/4		.20	4 x 1 1/2		4.0	5		5.4
	25 x 20	.09		100 x 40	1.8		125	2.4
1 1/4 x 1/2		.37	4 x 2		3.7	6		7.5
	32 x 15	.17		100 x 50	1.7		150	3.4
1 1/4 x 3/4		.35	4 x 2 1/2		3.3			
	32 x 20	.16		100 x 65	1.5			
1 1/4 x 1		.29	4 x 3		3.1			
	32 x 25	.13		100 x 80	1.4			
1 1/2 x 3/4		.53						
	40 x 20	.24						
1 1/2 x 1		.49						
	40 x 25	.22						
1 1/2 x 1 1/4		.31						
	40 x 32	.14						
2 x 1/2		.84						
	50 x 15	.38						
2 x 3/4		.86						
	50 x 20	.39						

*Sizes NPS 1/8 & 1/4 (DN 3 & 6) are solid, all other sizes cored.

INCHES	POUNDS
MILLIMETRES	KILOGRAMS