

ANSI B16.11 – ASTM – A105

SCREWED

Inches Nominal Pipe Size	A		B		Appr. Weight		90° ELBOWS
	mm	inches	mm	inches	Kg.	Lbs	
1/4	24,5	31/32	26,5	1	0,155	11/32	
3/8	28,5	11/8	34,0	15/16	0,300	11/16	
1/2	33,5	15/16	38,5	1 1/2	0,430	15/16	
3/4	38,0	11/2	46,5	113/16	0,640	1 13/32	
1	44,5	13/4	56,5	2 7/32	1120	2 15/32	
1 1/4	51,0	2	62,5	2 7/16	1380	3	
1 1/2	60,5	23/8	76,0	3	2640	5 13/16	
2	63,5	2 1/2	92,0	3 5/16	3700	8	
2 1/2	82,5	2 1/4	110,0	4 11/32	5840	127/8	
3	95,5	23/4	122,0	4 3/4	8000	175/8	
4	114,5	2 1/2	152,0	6	13500	293/4	

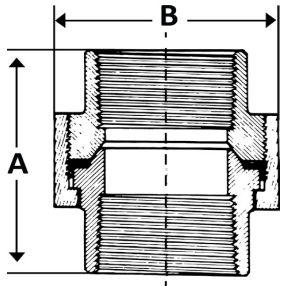
Inches Nominal Pipe Size	A		B		Appr. Weight		45° ELBOWS
	mm	inches	mm	inches	Kg.	Lbs	
1/4	22,0	7/8	34,0	15/16	0,250	9/16	
3/8	22,0	7/8	34,0	15/16	0,225	1/2	
1/2	25,0	1	38,5	1 1/2	0,305	11/16	
3/4	28,5	11/8	46,5	113/16	0,490	11/16	
1	33,5	15/16	56,5	27/32	0,840	1 7/8	
1 1/4	38,0	11/2	62,5	27/16	1020	2 1/4	
1 1/2	41,5	15/8	76,0	3	1700	3 3/4	
2	50,5	2	92,0	35/16	2560	55/8	
2 1/2	57,5	2 1/4	110,0	4 11/32	7000	15 1/2	
3	63,5	2 1/2	122,0	4 3/4	6000	13 1/4	
4	80,0	35/32	152,0	6	11300	25	

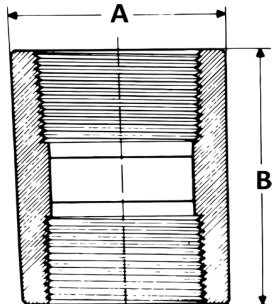
Inches Nominal Pipe Size	A		B		Appr. Weight		TEES
	mm	inches	mm	inches	Kg.	Lbs	
1/4	24,5	31/32	26,5	1	0,170	3/8	
3/8	28,5	11/8	34,0	15/16	0,320	11/16	
1/2	33,5	15/16	38,5	1 1/2	0,520	11/8	
3/4	38,0	1 1/2	46,5	113/16	0,730	15/8	
1	44,5	13/4	56,5	27/32	1260	23/4	
1 1/4	51,0	2	62,5	27/16	1635	35/8	
1 1/2	60,5	23/8	76,0	3	2805	63/16	
2	63,5	2 1/2	92,0	35/16	4000	8 13/16	
2 1/2	82,5	3 1/4	110,0	4 11/32	6150	139/16	
3	95,5	3 3/4	122,0	4 3/4	10500	23 1/8	
4	114,5	4 1/2	152,0	6	16500	36 1/2	

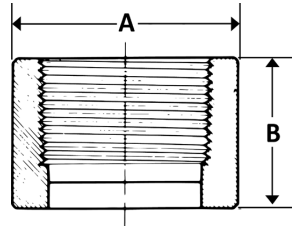
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ANSI B16.11 – ASTM – A105

SCREWED

Inches Nominal Pipe Size	A		B		Appr. Weight		FEMALE - FEMALE UNIONS
	mm	inches	mm	inches	Kg.	Lbs	
1/4	42,0	1 21/32	36,0	1 7/16	0,140	5/16	
3/8	47,0	1 27/32	41,0	1 5/8	0,190	13/32	
1/2	52,0	1 11/16	46,0	1 13/16	0,340	3/4	
3/4	57,0	2 1/4	56,0	2 7/32	0,440	31/32	
1	63,0	2 15/32	65,0	2 9/16	0,600	15/16	
1 1/4	72,0	2 27/32	78,0	3 1/16	0,995	23/16	
1 1/2	78,0	3 1/16	86,0	3 13/32	1 255	2 25/32	
2	89,0	3 1/2	103,0	4 1/16	2 120	4 11/16	
2 1/2	114,0	4 1/2	122,0	4 13/16	5 500	12 1/8	
3	130,0	5 1/8	144,0	5 11/16	8 000	17 5/8	
4	150,0	5 29/32	180,0	7 3/32	12 800	28 7/32	

Inches Nominal Pipe Size	A		B		Appr. Weight		COUPLINGS
	mm	inches	mm	inches	Kg.	Lbs	
1/4	19,0	3/4	35,0	1 3/8	0,050	1/8	
3/8	22,0	7/8	38,0	1 1/2	0,060	1/8	
1/2	28,5	1 1/8	47,5	1 7/8	0,140	5/16	
3/4	35,0	1 3/8	51,0	2	0,220	1/2	
1	44,5	1 3/4	60,5	2 3/8	0,420	3/4	
1 1/4	57,0	2 1/4	66,5	2 5/8	0,720	19/16	
1 1/2	63,5	2 1/2	79,5	3 1/8	1 065	2 3/8	
2	76,0	3	85,5	3 3/8	1 400	3 1/16	
2 1/2	92,0	3 5/8	92,0	3 5/8	2 500	5 1/2	
3	108,0	4 1/4	108,0	4 1/4	3 700	8 5/32	
4	140,0	5 1/2	120,0	4 3/4	6 500	14 5/16	

Inches Nominal Pipe Size	A		B		Appr. Weight		HALF COUPLINGS
	mm	inches	mm	inches	Kg.	Lbs	
1/4	19,0	3/4	17,5	11/16	0,025	1/16	
3/8	22,0	7/8	19,0	3/4	0,030	1/16	
1/2	28,5	1 1/8	24,0	15/16	0,070	3/16	
3/4	35,0	1 3/8	25,5	1	0,100	1/4	
1	44,5	1 3/4	30,0	13/16	0,210	7/16	
1 1/4	57,0	2 1/4	33,0	15/16	0,365	13/16	
1 1/2	63,5	2 1/2	40,0	19/16	0,520	1 1/8	
2	76,0	3	43,0	1 11/16	0,690	1 1/2	
2 1/2	92,0	3 5/8	46,0	1 13/16	1 150	2 17/32	
3	108,0	4 1/4	54,0	2 1/8	1 600	3 17/32	
4	140,0	5 1/2	60,0	2 3/8	3 200	7	

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Size	A		B		Appr. Weight		REDUCING COUPLINGS
	mm	inches	mm	inches	Kg.	Lbs	
3/8 X 1/4	22,0	7/8	38,0	1 1/2	0,070	3/16	
1/2 X 3/8	28,5	1 1/8	47,5	1 7/8	0,150	5/16	
1/2 X 1/4	28,5	1 1/8	47,5	1 7/8	0,190	13/32	
3/4 X 1/2	35,0	1 3/8	51,0	2	0,235	1/2	
3/4 X 1/4	35,0	1 3/8	51,0	2	0,285	5/8	
1 X 3/4	44,5	1 3/4	60,5	2 3/8	0,500	1 1/8	
1 X 1/2	44,5	1 3/4	60,5	2 3/8	0,540	1 3/16	
1 X 1/4	44,5	1 3/4	60,5	2 3/8	0,575	1 17/64	
1 1/4 X 1	57,0	2 1/4	66,5	2 5/8	0,830	1 13/16	
1 1/2 X 1	63,5	2 1/2	79,5	3 1/8	1280	2 13/16	
1 1/2 X 3/4	63,5	2 1/2	79,5	3 1/8	1370	3	
1 1/2 X 1/2	63,5	2 1/2	79,5	3 1/8	1485	3 1/4	
2 X 1 1/2	76,0	3	85,5	3 3/8	1610	3 9/16	
2 X 1	76,0	3	85,5	3 3/8	1925	4 1/4	
2 1/2 X 2	92,0	3 5/8	92,0	3 5/8	2765	6 1/16	
3 X 2	108,0	4 1/4	108,0	4 1/4	5080	11 3/16	
4 X 2	140,0	5 1/2	120,0	4 3/4	8230	18 1/8	
4 X 3	140,0	5 1/2	120,0	4 3/4	9620	21 5/32	

Inches Nominal Pipe Size	A		B		Appr. Weight		CAPS
	mm	inches	mm	inches	Kg.	Lbs	
1/4	19,0	3/4	25,5	1	0,050	1/8	
3/8	22,0	7/8	25,5	1	0,035	3/16	
1/2	28,5	1 1/8	32,5	1 9/32	0,115	1/4	
3/4	35,0	1 3/8	37,0	1 7/16	0,200	7/16	
1	44,5	1 3/4	42,0	1 5/8	0,310	11/16	
1 1/4	57,0	2 1/4	45,5	1 13/16	0,600	15/16	
1 1/2	63,5	2 1/2	46,5	1 3/4	0,725	15/8	
2	76,0	3	48,0	1 7/8	1050	25/16	
2 1/2	92,0	3 5/8	75,0	2 15/18	3350	7 3/8	
3	108,0	4 1/4	81,0	3 3/18	5300	11 11/16	
4	140,0	5 1/2	88,0	3 15/32	10200	22 1/2	

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ANSI B16.11 – ASTM – A105

SCREWED

Inches Nominal Pipe Size	A		B		Appr. Weight		HEXAGONAL HEAD PLUGS
	mm	inches	mm	inches	Kg.	Lbs	
1/4	16,0	5/8	23,0	29/32	0,025	1/16	
3/8	19,0	1/4	25,5	1	0,035	3/32	
1/2	22,0	7/8	29,0	15/32	0,070	3/16	
3/4	27,0	1 1/16	31,5	1 1/4	0,140	5/16	
1	35,0	1 3/8	35,5	1 13/32	0,210	7/16	
1 1/4	46,0	1 13/16	41,5	1 5/8	0,415	15/16	
1 1/2	50,0	2	43,0	1 11/16	0,575	1 1/4	
2	63,0	2 1/2	46,0	1 13/16	1000	2 3/16	
2 1/2	77,0	3 1/32	59,0	2 5/16	1850	4 1/16	
3	94,0	3 11/16	62,5	2 15/32	3000	6 5/8	
4	116,0	4 9/16	77,0	3 1/32	6000	13 1/4	

Inches Nominal Pipe Size	A		B		Appr. Weight		HEXAGONAL HEAD BUSHINGS
	mm	inches	mm	inches	Kg.	Lbs	
3/8 X 1/4	19,0	3/4	25,5	1	0,030	1/16	
1/2 X 3/8	22,0	7/8	29,0	1 5/32	0,040	1/8	
1/2 X 1/4	22,0	7/8	29,0	1 5/32	0,055	1/8	
3/4 X 1/2	27,0	1 1/16	31,5	1 1/4	0,085	3/16	
3/4 X 1/4	27,0	1 1/16	31,5	1 1/4	0,120	9/32	
1 X 3/4	35,0	1 3/8	35,5	1 13/32	0,105	1/4	
1 X 1/2	35,0	1 3/8	35,5	1 13/32	0,150	11/32	
1 X 1/4	35,0	1 3/8	35,5	1 13/32	0,190	7/16	
1 1/4 X 1	46,0	1 13/16	41,5	1 5/8	0,215	1/2	
1 1/2 X 1	50,0	1 31/32	43,0	1 11/16	0,380	7/8	
1 1/2 X 3/4	50,0	1 31/32	43,0	1 11/16	0,465	1	
1 1/2 X 1/2	50,0	1 31/32	43,0	1 11/16	0,505	1 1/8	
2 X 1 1/2	63,0	2 1/2	46,0	1 13/16	0,470	1 1/16	
2 X 1	63,0	2 1/2	46,0	1 13/16	0,815	1 13/16	
2 1/2 X 2	77,0	3 1/32	59,0	2 5/16	0,975	2 1/8	
3 X 2	94,0	3 11/16	62,5	2 15/32	1445	3 3/16	
4 X 2	116,0	4 9/16	77,0	3 1/32	3000	4 5/8	
4 X 3	116,0	4 9/16	77,0	3 1/32	4700	10 9/32	

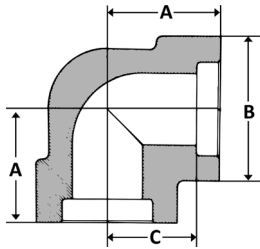
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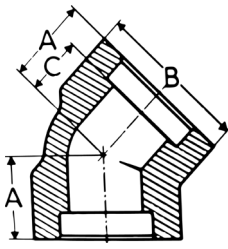
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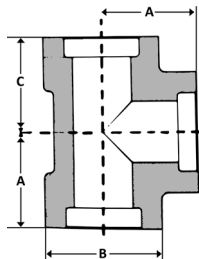
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SOCKET WELD

Size	A		B		C		Appr. Weight		90° ELBOWS
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
1/4	20,5	13/16	22,0	7/8	11,5	15/32	0,065	9/64	
3/8	24,5	31/32	26,5	1 1/16	13,0	17/32	0,130	9/32	
1/2	28,5	1 1/8	34,0	1 11/32	15,5	5/8	0,230	1/2	
3/4	33,5	15/16	38,5	1 1/2	18,5	3/4	0,300	21/32	
1	38,0	1 1/2	46,5	1 27/32	22,0	7/8	0,490	1 1/16	
1 1/4	44,5	13/4	56,5	2 7/32	27,0	1 1/16	0,760	1 11/16	
1 1/2	51,0	2	62,5	2 15/32	32,0	1 9/32	1 050	2 5/16	
2	60,5	2 3/8	76,0	3	38,0	1 1/2	1 730	3 13/16	
2 1/2	63,5	2 1/12	92,0	3 5/8	41,0	1 5/8	2 550	5 5/8	
3	82,5	3 1/4	110,0	4 11/32	57,0	2 1/4	4 000	8 13/16	
4	114,5	4 1/2	152,0	6	67,0	2 21/32	14 300	31 1/2	

Size	A		B		C		Appr. Weight		45° ELBOWS
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
1/4	22,5	7/8	34,0	1 11/32	9,5	3/8	0,195	7/16	
3/8	22,5	7/8	34,0	1 11/32	9,5	3/8	0,180	13/32	
1/2	22,5	7/8	34,0	1 11/32	12,0	15/32	0,170	3/8	
3/4	25,0	63/64	38,5	1 1/2	12,0	15/32	0,230	1/2	
1	28,5	1 1/8	46,5	1 27/32	14,5	19/32	0,345	3/4	
1 1/4	33,5	15/16	56,5	2 7/32	17,5	1 1/16	0,650	1 7/16	
1 1/2	38,0	1 1/2	62,5	2 15/32	21,0	13/16	0,795	1 3/4	
2	41,5	1 5/8	76,0	3	25,5	1	1 200	2 5/8	
2 1/2	50,5	2	92,0	3 5/8	28,5	1 1/8	2 200	4 27/32	
3	63,5	2 1/2	122,0	4 13/16	32,0	1 9/32	7 100	15 21/32	
4	80,0	3 5/32	152,0	6	42,0	1 21/32	10 300	22 11/16	

Size	A		B		C		Appr. Weight		TEES
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
1/4	24,5	31/32	26,5	1 1/16	11,5	15/32	0,175	3/8	
3/8	24,5	31/32	26,5	1 1/16	13,0	17/32	0,155	5/16	
1/2	28,5	1 1/8	34,0	1 11/32	15,5	5/8	0,280	5/8	
3/4	33,5	15/16	38,5	1 1/2	18,5	3/4	0,370	13/16	
1	38,0	1 1/2	46,5	1 27/32	22,0	7/8	0,565	1 1/4	
1 1/4	44,5	13/4	56,5	2 7/32	27,0	1 1/16	0,870	1 15/16	
1 1/2	51,0	2	62,5	2 15/32	32,0	1 9/32	1 280	2 13/16	
2	60,5	2 3/8	76,0	3	38,0	1 1/2	1 795	4	
2 1/2	63,5	2 1/2	92,0	3 5/8	41,0	1 5/8	2 845	6 1/4	
3	82,5	3 1/4	110,0	4 11/32	57,0	2 1/4	5 500	12 1/8	
4	114,5	4 1/2	152,0	6	67,0	2 21/32	20 000	44	

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SOCKET WELD

Size	A		B		C		Appr. Weight		FEMALE - FEMALE UNIONS
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
1/4	42,0	1 21/32	36,0	1 7/16	9,5	3/8	0,150	11/32	
3/8	47,0	1 27/32	41,0	1 5/8	9,5	3/8	0,220	1/2	
1/2	52,0	2 1/16	46,0	1 13/16	9,5	3/8	0,380	27/32	
3/4	57,0	2 1/4	56,0	2 7/32	13,0	1/2	0,460	1	
1	63,0	2 15/32	65,0	2 9/16	13,0	1/2	0,700	19/16	
1 1/4	72,0	2 27/32	78,0	3 1/16	13,0	1/2	1 200	2 5/8	
1 1/2	78,0	3 1/16	86,0	3 13/32	13,0	1/2	1 500	3 5/16	
2	89,0	3 1/2	103,0	4 1/16	16,0	5/8	2 575	5 11/16	
2 1/2	114,0	4 1/2	122,0	4 13/16	16,0	5/8	6 100	13 7/16	
3	130,0	5 1/8	144,0	5 11/16	16,0	5/8	8 800	19 3/8	
4	150,0	5 29/32	180,0	7 3/32	20,0	25/32	13 500	29 3/4	

Size	A		B		C		Appr. Weight		COUPLINGS
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
1/4	22,5	7/8	25,5	1	6,5	1/4	0,055	1/8	
3/8	26,5	1 1/16	25,5	1	6,5	1/4	0,060	1/8	
1/2	32,0	1 1/4	28,5	1 1/8	9,5	3/8	0,110	1/4	
3/4	38,0	1 1/2	35,5	1 3/8	9,5	3/8	0,170	3/8	
1	46,5	1 27/32	39,0	1 1/2	13,0	1/2	0,270	5/8	
1 1/4	56,0	2 7/32	39,0	1 1/2	13,0	1/2	0,350	3/4	
1 1/2	62,5	2 15/32	39,0	1 1/2	13,0	1/2	0,425	15/16	
2	76,5	3	51,0	2	19,0	3/4	0,715	19/16	
2 1/2	93,0	3 21/32	51,0	2	19,0	3/4	1 130	2 1/2	
3	110,5	4 11/32	51,0	2	19,0	3/4	1 500	3 5/16	
4	138,5	5 15/32	60,0	2 11/32	19,0	3/4	2 500	5 1/2	

Size	A		B		C		Appr. Weight		HALF COUPLINGS
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
1/4	22,5	7/8	25,5	1	16,0	5/8	0,060	1/8	
3/8	26,5	1 1/16	27,0	1 1/16	17,5	11/16	0,075	3/16	
1/2	32,0	1 1/4	32,0	1 1/4	22,5	7/8	0,140	5/16	
3/4	38,0	1 1/2	37,0	1 7/16	24,0	15/16	0,200	7/16	
1	46,5	1 27/32	41,5	1 5/8	28,5	1 1/8	0,335	3/4	
1 1/4	56,0	2 7/32	43,5	1 23/32	30,5	1 3/16	0,480	1 1/16	
1 1/2	62,5	2 15/32	45,0	1 3/4	32,0	1 1/4	0,570	1 1/4	
2	76,5	3	57,5	2 1/4	41,5	1 5/8	1 000	2 3/16	
2 1/2	93,0	3 21/32	59,0	2 5/16	43,0	1 11/16	1 550	3 7/16	
3	110,5	4 11/32	60,5	2 3/8	44,5	1 3/4	2 130	4 11/16	
4	138,5	5 15/32	70,0	2 3/4	50,0	1 31/32	3 650	8 1/16	

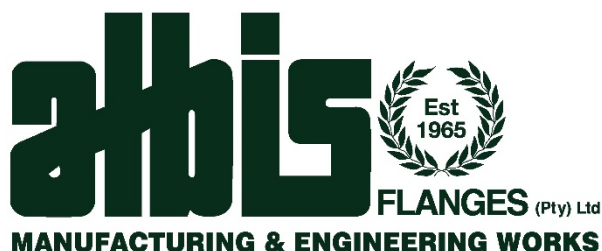
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SOCKET WELD

Size	A		B		C		Appr. Weight		REDUCING COUPLINGS
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
3/8x1/4	26,5	1 1/16	25,5	1	6,5	1/4	0,070	3/16	
1/2x3/8	32,0	1 1/4	28,5	1 1/8	9,5	3/8	0,120	1/4	
1/2x1/4	32,0	1 1/4	28,5	1 1/8	9,5	3/8	0,130	9/32	
3/4x1/2	38,0	1 1/2	32,0	1 1/4	9,5	3/8	0,195	7/16	
3/4x1/4	38,0	1 1/2	32,0	1 1/4	9,5	3/8	0,220	1/2	
1x3/4	46,5	1 7/32	39,0	1 1/2	13,0	1/2	0,315	11/16	
1x1/2	46,5	1 7/32	39,0	1 1/2	16,5	21/32	0,350	25/32	
1x1/4	46,5	1 7/32	39,0	1 1/2	16,5	21/32	0,380	27/32	
1 1/4x1	56,0	2 7/32	39,0	1 1/2	13,0	1/2	0,435	15/16	
1 1/2x1	62,5	2 15/32	39,0	1 1/2	13,0	1/2	0,580	19/32	
1 1/2x3/4	62,5	2 15/32	39,0	1 1/2	13,0	1/2	0,630	13/8	
1 1/2x1/2	62,5	2 15/32	35,5	1 13/32	13,0	1/2	0,670	1 1/2	
2x1 1/2	76,5	3	48,0	1 29/32	19,0	3/4	0,920	2 1/32	
2x1	76,5	3	48,0	1 29/32	19,0	3/4	1 140	2 17/32	

Size	A		B		C		Appr. Weight		CAPS
	mm	inches	mm	inches	mm	inches	Kg.	Lbs	
1/4	22,5	7/8	16,0	5/8	6,5	1/4	0,035	3/32	
3/8	26,5	1 1/16	16,0	5/8	5,5	1/4	0,045	1/8	
1/2	32,0	1 1/4	17,5	11/16	8,0	5/16	0,065	5/32	
3/4	38,0	1 1/2	22,5	7/8	9,5	3/8	0,125	1/4	
1	46,5	1 7/32	25,0	1	12,0	15/32	0,210	15/32	
1 1/4	56,0	2 7/32	26,0	1 1/32	13,0	1/2	0,370	13/16	
1 1/2	62,5	2 15/32	28,0	1 1/8	15,0	19/32	0,600	15/16	
2	76,5	3	34,0	1 11/32	19,0	3/4	1 030	25/16	
2 1/2	93,0	3 21/32	37,0	1 15/32	21,0	27/32	1 500	35/16	
3	110,5	4 11/32	40,0	1 19/32	24,0	15/16	2 300	53/32	
4	138,5	5 15/32	45,0	1 25/32	25,0	1	4 000	83/16	



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