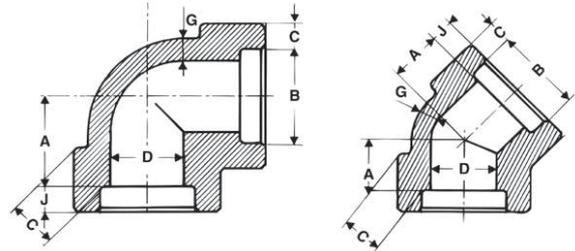


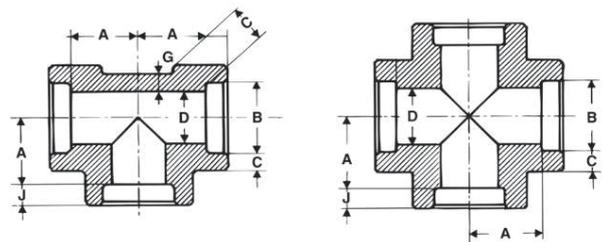
## ELBOW

For dimensions B-C-D-G-J refer to dimensions of S.W. fittings



Class 3000 lbs. - 6000 lbs.  
 Socket welding end and dimensions according to ASME: B16.11

## Tee Cross



Class 3000 lbs. - 6000 lbs  
 Socket welding end and dimensions according to ASME: B16.11

Nominal pipe size	Center to bottom of socket A - Centre au fond de l'emboîtement A'									
	Coude 90° - Té - Croix				Coude 45°				Tolérances ±	
	3000		6000		3000		6000			
inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
1/4	0.44	11,0	0.53	13,5	0.31	8,0	0.31	8,0	0.03	1,0
3/8	0.53	13,5	0.62	15,5	0.31	8,0	0.44	11,0	0.06	1,5
1/2	0.62	15,5	0.75	19,0	0.44	11,0	0.50	12,5	0.06	1,5
3/4	0.75	19,0	0.88	22,5	0.50	13,0	0.56	14,0	0.06	1,5
1	0.88	22,5	1.06	27,0	0.56	14,0	0.69	17,5	0.08	2,0
1 1/4	1.06	27,0	1.25	32,0	0.69	17,5	0.81	20,5	0.08	2,0
1 1/2	1.25	32,0	1.50	38,0	0.81	20,5	1.00	25,5	0.08	2,0
2	1.50	38,0	1.62	41,0	1.00	25,5	1.12	28,5	0.08	2,0
2 1/2	1.62	41,0	-	-	1.12	28,5	-	-	0.10	2,5
3	2.25	57,0	-	-	1.25	32,0	-	-	0.10	2,5
4	2.62	66,5	-	-	1.62	41,0	-	-	0.10	2,5

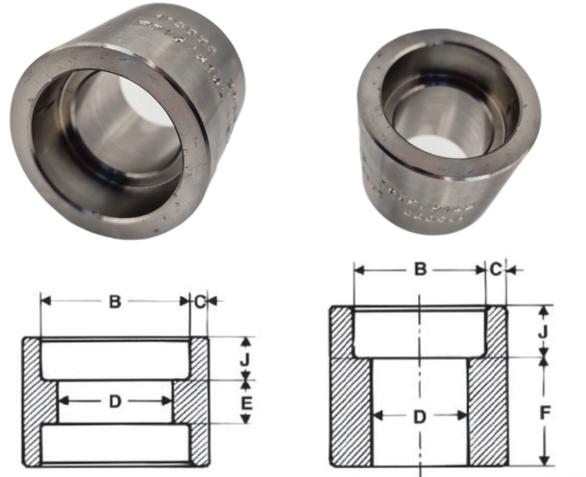
5" and 6" Available on request (Forgings available from stock) Manufacturer standard Red.  
 Tees & Red. Crosses - refer to page 69

## Coupling Half-Coupling

For dimensions B-C-D-J refer to dimensions of S.W. fittings

Class 3000 lbs. - 6000 lbs.

Socket welding end and dimensions according to ASME: B16.1



Nominal pipe size	Center to bottom of socket A - Centre au fond de l'emboîtement A`								
	Coude 90° - Té - Croix				Coude 45°				
	3000		6000		3000		6000		Tolérances ±
	inches	mm	inches	mm	inches	mm	inches	mm	
1/4	0.25	6,5	0.06	1,5	0.62	16,0	0.06	1,5	
3/8	0.25	6,5	0.12	3,0	0.69	17,5	0.12	3,0	
1/2	0.38	9,5	0.12	3,0	0.88	22,5	0.12	3,0	
3/4	0.38	9,5	0.12	3,0	0.94	24,0	0.12	3,0	
1	0.50	12,5	0.16	4,0	1.12	28,5	0.16	4,0	
1 1/4	0.50	12,5	0.16	4,0	1.19	30,0	0.16	4,0	
1 1/2	0.50	12,5	0.16	4,0	1.25	32,0	0.16	4,0	
2	0.75	19,0	0.16	4,0	1.62	41,0	0.16	4,0	
2 1/2	0.75	19,0	0.20	5,0	1.69	43,0	0.20	5,0	
3	0.75	19,0	0.20	5,0	1.75	44,5	0.20	5,0	
4	0.75	19,0	0.20	5,0	1.88	48,0	0.20	5,0	

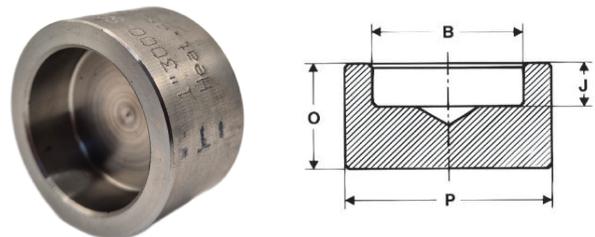
5" and 6" Available on request (Forgings available from stock) Manufacturer standard

## CAP

For dimensions B-J refer to dimensions of S.W. fittings

Class 3000 lbs. - 6000 lbs.

Socket welding end and dimensions according to ASME: B16.11



Nominal pipe size	3000				6000			
	O (1)		P (1)		O (1)		P (1)	
	inches	mm	inches	mm	inches	mm	inches	mm
1/4	0.79	20	0.87	22	0.79	20	0.90	26
3/8	0.79	20	1.02	26	0.79	20	1.10	28
1/2	0.79	20	1.26	32	0.87	22	1.38	35
3/4	0.94	24	1.50	38	0.98	25	1.57	45
1	1.06	27	1.77	45	1.10	28	1.97	50
1 1/4	1.06	27	2.17	55	1.10	28	2.36	60
1 1/2	1.10	28	2.48	63	1.18	30	2.64	67
2	1.30	33	2.95	75	1.42	36	3.35	85
2 1/2	1.42	36	3.62	95	1.53	39	3.94	100
3	1.57	40	4.33	110	1.73	44	4.72	120
4	1.77	45	5.51	140	2.01	51	5.91	150

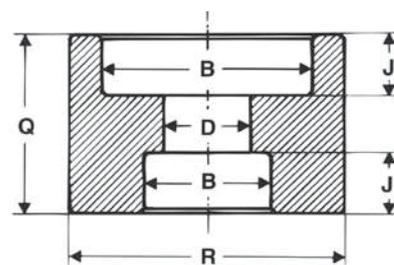
(1) Dimensions not listed in ASME B 16.11 and BS 3799 may vary according to the manufacturer.

## Reducing Coupling

For dimensions B-D-J refer to dimensions of S.W. fittings

Class 3000 lbs. - 6000 lbs.

Socket welding end and dimensions according to ASME: B16.11



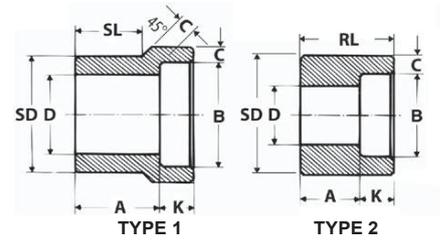
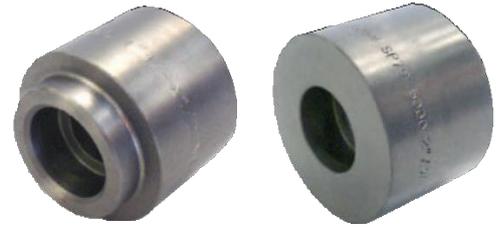
Nominal pipe size	3000				6000			
	Q (1)		R (1)		Q (1)		R (1)	
	inches	mm	inches	mm	inches	mm	inches	mm
3/8 x 1/4	0.98	25,0	1.02	26,0	0.98	25,0	1.10	28,0
1/2 x 3/8	1.10	28,0	1.26	32,0	1.10	28,0	1.38	35,0
1/2 x 1/4	1.10	28,0	1.26	32,0	1.10	28,0	1.38	35,0
3/4 x 1/2	1.22	31,0	1.50	38,0	1.22	31,0	1.77	45,0
3/4 x 1/4	1.22	31,0	1.50	38,0	1.22	31,0	1.77	45,0
1 x 3/4	1.46	37,0	1.77	45,0	1.46	37,0	1.97	50,0
1 x 1/2	1.34	34,0	1.77	45,0	1.34	34,0	1.97	50,0
1 x 1/4	1.34	34,0	1.77	45,0	1.34	34,0	1.97	50,0
1 1/4 x 1	1.46	37,0	2.17	55,0	1.46	37,0	2.36	60,0
1 1/2 x 1	1.46	37,0	2.48	63,0	1.50	38,0	2.64	67,0
1 1/2 x 3/4	1.46	37,0	2.48	63,0	1.50	38,0	2.64	67,0
1 1/2 x 1/2	1.34	34,0	2.48	63,0	1.50	38,0	2.64	67,0
2 x 1 1/2	1.81	46,0	2.95	75,0	2.01	51,0	3.35	85,0
2 x 1	1.81	46,0	2.95	75,0	2.01	51,0	3.35	85,0

## REDUCING INSERTS

For dimensions B-D-J refer to dimensions of S.W. fittings  
 Dimensions B-D-J, voir caractéristiques dimensionnelles

Class 3000 lbs. - 6000 lbs.

Socket welding end and dimensions according to ASME: B16.11



Nominal pipe size Diamètre nominal	Type(2)		Socket		Shank Dia. SD	Laying length A		Bore D		Wall min. C		Length			
	3M	6M	Dia. B	Depth Min. K		3M	6M	3M	6M	3M	6M	SL		RL (min)	
												3M	6M	3M	6M
3/8" x 1/4"	1	1	14,4	9,5	17,1	19,0	21,3	9,2	6,3	3,78	4,60	14,2	15,7	-	-
1/2" x 3/8"	1	1	17,8	9,5	21,3	20,6	23,1	12,5	9,1	4,01	5,03	15,7	15,7	-	-
1/2" x 1/4"	1	1	14,4	9,5	21,3	20,6	20,6	9,2	6,3	3,78	4,60	15,7	15,7	-	-
3/4" x 1/2"	1	1	22,0	9,5	26,7	22,4	25,4	15,8	11,7	4,67	5,97	17,5	19,0	-	-
3/4" x 3/8"	2	1	17,8	9,5	26,7	15,7	22,4	12,5	9,1	4,01	5,03	-	19,0	26,9	-
3/4" x 1/4"	2	2	14,4	9,5	26,7	17,5	22,4	9,2	6,3	3,78	4,60	-	-	26,9	32,0
1" x 3/4"	1	1	27,4	12,5	33,4	23,9	28,4	20,9	15,5	4,90	6,96	19,0	20,6	-	-
1" x 1/2"	2	1	22,0	9,5	33,4	15,7	28,4	15,8	11,7	4,67	5,97	-	20,6	28,4	-
1" x 3/8"	2	2	17,8	9,5	33,4	17,5	22,4	12,5	9,1	4,01	5,03	-	-	28,4	33,2
1" x 1/4"	2	2	14,4	9,5	33,4	19,0	23,9	9,2	6,3	3,78	4,60	-	-	28,4	33,2
1 1/4 x 1"	1	1	34,1	12,5	42,2	25,4	30,2	26,6	20,7	5,69	7,92	20,6	22,4	-	34,7
1 1/4 x 3/4"	2	2	27,4	12,5	42,2	17,5	20,6	20,9	15,5	4,90	6,96	-	-	31,7	34,7
1 1/4 x 1/2"	2	2	22,0	9,5	42,2	19,0	22,4	15,8	11,7	4,67	5,97	-	-	31,7	-
1 1/4 x 3/8"	2	2	17,8	9,5	42,2	20,6	23,9	12,5	9,1	4,01	5,03	-	-	31,7	34,7
1 1/4 x 1/4"	2	2	14,4	9,5	42,2	22,4	25,4	9,2	6,3	3,78	4,60	-	-	31,7	34,7
1 1/2 x 1 1/4"	1	1	42,9	12,5	48,2	28,4	35,0	35,0	29,4	6,07	7,92	22,4	25,4	-	39,6
1 1/2 x 1"	2	1	34,1	12,5	48,2	17,5	29,2	26,6	20,7	5,69	7,92	-	25,4	33,2	-
1 1/2 x 3/4"	2	2	27,4	12,5	48,2	19,0	25,4	20,9	15,5	4,90	6,96	-	-	33,2	39,6
1 1/2 x 1/2"	2	2	22,0	9,5	48,2	20,6	26,9	15,8	11,7	4,67	5,97	-	-	33,2	39,6
1 1/2 x 3/8"	2	2	17,8	9,5	48,2	22,4	28,4	12,5	9,1	4,01	5,03	-	-	33,2	41,1
2" x 1 1/2"	1	1	49,0	12,5	60,3	31,8	38,9	40,8	33,9	6,35	8,92	25,4	28,7	-	41,1
2" x 1 1/4"	2	2	42,9	12,5	60,3	20,6	23,9	35,0	29,4	6,07	7,92	-	-	38,1	-
2" x 1"	2	2	34,1	12,5	60,3	22,4	25,4	26,6	20,7	5,69	7,92	-	-	38,1	41,1
2" x 3/4"	2	2	27,4	12,5	60,3	23,9	26,9	20,9	15,5	4,90	6,96	-	-	38,1	41,1
2" x 1/2"	2	2	22,0	9,5	60,3	25,4	28,4	15,8	11,7	4,67	5,97	-	-	38,1	53,8
2 1/2 x 2"	1	2	61,4	16	73,0	46,0	42,7	52,4	42,8	6,93	10,92	38,1	31,8	-	53,8
2 1/2 x 1 1/2"	2	2	49,0	12,5	73,0	35,0	35,0	40,8	33,9	6,35	8,92	-	-	53,8	-
2 1/2 x 1 1/4"	2	2	42,9	12,5	73,0	36,6	36,6	35,0	29,4	6,07	7,92	-	-	53,8	53,8
2 1/2 x 1"	2	2	34,1	12,5	73,0	38,1	38,1	26,6	20,7	5,69	7,92	-	-	53,8	53,8
2 1/2 x 3/4"	2	1	27,4	12,5	73,0	39,6	38,1	20,9	15,5	4,90	6,96	-	-	53,8	53,8
3" x 2 1/2"	1	2	74,1	16	88,9	38,1	57,2	62,7	54,0	8,76	11,91	31,8	44,4	-	53,8
3" x 2"	2	2	61,4	16	88,9	25,4	31,8	52,4	42,8	6,93	10,92	-	-	47,4	53,8
3" x 1 1/2"	2	2	49,0	12,5	88,9	28,4	31,8	40,8	33,9	6,35	8,92	-	-	47,4	53,8
3" x 1 1/4"	2	2	42,9	12,5	88,9	30,2	31,8	35,0	29,4	6,07	7,92	-	-	47,4	X
3" x 1"	2	X	34,1	12,5	88,9	31,8	31,8	26,6	20,7	5,69	7,92	-	-	47,4	X
4" x 3"	2	X	90,0	16	114,3	33,3	X	77,9	X	9,52	X	-	-	60,4	X
x 2 1/2"	2	X	74,1	16	114,3	38,1	X	62,7	X	8,76	X	-	-	60,4	X
4" x 2"	2	X	61,4	16	114,3	38,1	X	52,4	X	6,93	X	-	-	60,4	X
4" x 1 1/2"	2	X	49,0	12,5	114,3	41,1	X	40,8	X	6,35	X	-	-	60,4	-
4" x 1 1/4"	2	X	42,9	12,5	114,3	42,9	X	35,0	X	6,07	X	-	-	60,4	-

(1) At the option of the manufacturer Type 2 Reducers may be furnished in Type 1 configuration.

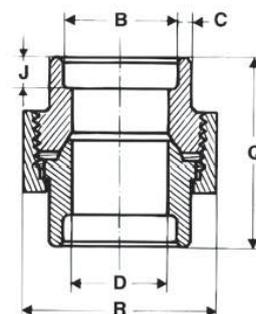
(2) 3M & 6M symbols denote 3000 & 6000 classes

## UNION

For dimensions B-C-D-J refer to dimensions of S.W. fitting

Class 3000 lbs. - 6000 lbs.

Dimensions: MSS SP 83-BS 3799



Nominal pipe size	3000				6000			
	Q (1)		R (1)		Q (1)		R (1)	
	inches	mm	inches	mm	inches	mm	inches	mm
1/4	1.67	42,5	1.42	36,0	-	-	-	-
3/8	2.00	51,0	1.62	41,0	-	-	-	-
1/2	2.25	57,0	1.81	46,0	2.25	57,0	2.20	56,0
3/4	2.25	57,0	2.20	56,0	2.48	63,0	2.54	64,5
1	2.48	63,0	2.54	64,5	2.80	71,0	3.15	80,0
1 1/4	2.76	68,0	3.07	80,0	2.99	76,0	3.43	87,0
1 1/2	3.03	77,0	3.43	87,0	3.50	89,0	3.94	100,0
2	3.62	92,0	3.94	100,0	4.65	118,0	4.80	125,0
2 1/2	4.65	118,0	4.80	125,0	-	-	-	-
3	4.65	118,0	5.67	144,0	-	-	-	-
4	5.91	148,0	7.09	200,0	-	-	-	-

(1) Dimensions may vary according to the manufacturer.