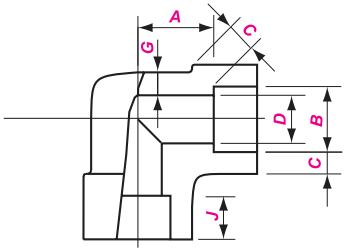
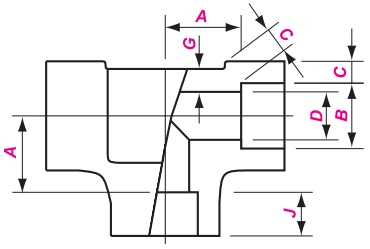


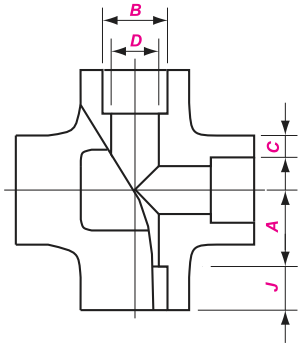
SW 45 Elbow



SW 90 Elbow



SW Tee



SW Cross

GB/T 14383、ASME B16.11

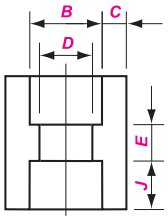
Nominal Size		Socket Bore Dia.	Bore Dia. of Fittings			Socket Wall Thickness						Body Wall			Depth of Socket	Center to Bottom of Socket					
			D			C						G_{min}			J_{min}	A					
																90° Elbow,Tee,Cross			45° Elbow		
DN	NPS	B	3000	6000	9000	3000		6000		9000		3000	6000	9000		3000	6000	9000	3000	6000	9000
						ave	min	ave	min	ave	min										
6	1/8	10.9	6.1	3.2	-	3.18	3.18	3.96	3.43	-	-	2.41	3.15	-	9.5	11.0	11.0	-	8.0	8.0	-
8	1/4	14.3	8.5	5.6	-	3.78	3.30	4.60	4.01	-	-	3.02	3.68	-	9.5	11.0	13.5	-	8.0	8.0	-
10	3/8	17.7	11.8	8.4	-	4.01	3.50	5.03	4.37	-	-	3.20	4.01	-	9.5	13.5	15.5	-	8.0	11.0	-
15	1/2	21.9	15.0	11.0	5.6	4.67	4.09	5.97	5.18	9.53	8.18	3.73	4.78	7.47	9.5	15.5	19.0	25.5	11.0	12.5	15.5
20	3/4	27.3	20.2	14.8	10.3	4.90	4.27	6.96	6.04	9.78	8.56	3.91	5.56	7.82	12.5	19.0	22.5	28.5	13.0	14.0	19.0
25	1	34.0	25.9	19.9	14.4	5.69	4.98	7.92	6.93	11.38	9.96	4.55	6.35	9.09	12.5	22.5	27.0	32.0	14.0	17.5	20.5
32	1¼	42.8	34.3	28.7	22.0	6.07	5.28	7.92	6.93	12.14	10.62	4.85	6.35	9.70	12.5	27.0	32.0	35.0	17.5	20.5	22.5
40	1½	48.9	40.1	33.2	27.2	6.35	5.54	8.92	7.80	12.70	11.12	5.08	7.14	10.15	12.5	32.0	38.0	38.0	20.5	25.5	25.5
50	2	61.2	51.7	42.1	37.4	6.93	6.04	10.92	9.50	13.84	12.12	5.54	8.74	11.07	16.0	38.0	41.0	54.0	25.5	28.5	28.5
65	2½	73.9	61.2	-	-	8.76	7.62	-	-	-	-	7.01	-	-	16.0	41.0	-	-	28.5	-	-
80	3	89.9	76.4	-	-	9.52	8.30	-	-	-	-	7.62	-	-	16.0	57.0	-	-	32.0	-	-
100	4	115.5	100.7	-	-	10.69	9.35	-	-	-	-	8.56	-	-	19.0	66.5	-	-	41.0	-	-

Note:

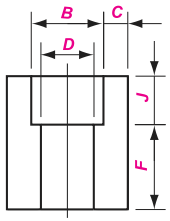
1) The even thickness around the socket bore shall not be less than the average value, the thickness at partial areas can be the min. one.
2) Considering the tolerance of outside diameter of pipe, the diameters of some socket bore can be a little larger than the ones specified in B16.11.
3) When the sizes of the connecting pipes aren't conformed to the ones specified in this catalog, the sizes of the connecting pipes shall be provided in the purchase specification.

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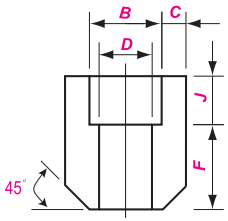
Shanghai Zhucheng Pipe Fittings Manufacturing Co Ltd www.zcpipefittings.com



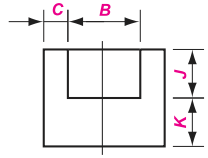
SW Coupling



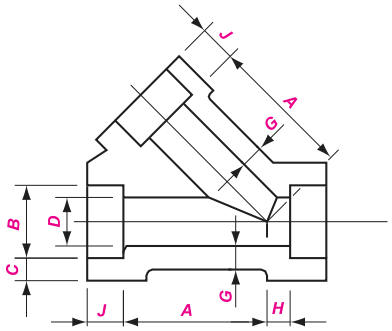
SW Half-Coupling



Boss



SW Cap



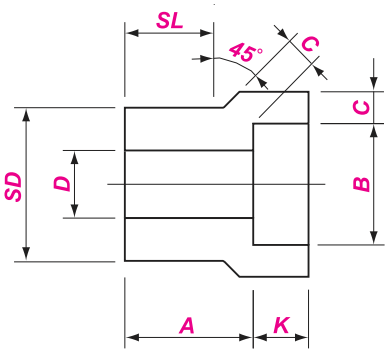
SW 45 Lateral

GB/T 14383、ASME B16.11

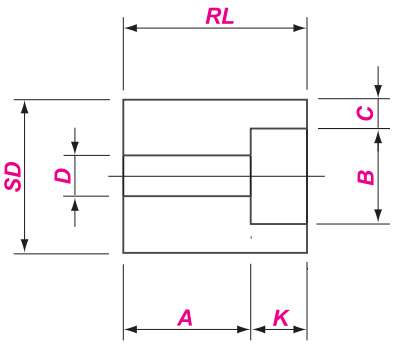
Nominal Size		Socket Bore Dia.	Bore Dia. of Fittings			Socket Wall Thickness						Body Wall			Depth of Socket	Laying Lengths	Laying Lengths	End Wall Thickness			Center to Bottom of Socket			
DN	NPS	B	D			C						G_{min}			J_{min}	E	F	K_{min}			A		H	
			3000	6000	9000	3000		6000		9000		3000	6000	9000				3000	6000	9000	3000	6000	3000	6000
						ave	min	ave	min	ave	min													
6	1/8	10.9	6.1	3.2	-	3.18	3.18	3.96	3.43	-	-	2.41	3.15	-	9.5	6.5	16.0	4.8	6.4	-	-	-	-	-
8	1/4	14.3	8.5	5.6	-	3.78	3.30	4.60	4.01	-	-	3.02	3.68	-	9.5	6.5	16.0	4.8	6.4	-	-	-	-	-
10	3/8	17.7	11.8	8.4	-	4.01	3.50	5.03	4.37	-	-	3.20	4.01	-	9.5	6.5	17.5	4.8	6.4	-	37	-	9.5	-
15	1/2	21.9	15.0	11.0	5.6	4.67	4.09	5.97	5.18	9.53	8.18	3.73	4.78	7.47	9.5	9.5	22.5	6.4	7.9	11.2	41	51	9.5	11
20	3/4	27.3	20.2	14.8	10.3	4.90	4.27	6.96	6.04	9.78	8.56	3.91	5.56	7.82	12.5	9.5	24.0	6.4	7.9	12.7	51	60	11	13
25	1	34.0	25.9	19.9	14.4	5.69	4.98	7.92	6.93	11.38	9.96	4.55	6.35	9.09	12.5	12.5	28.5	9.6	11.2	14.2	60	71	13	16
32	1¼	42.8	34.3	28.7	22.0	6.07	5.28	7.92	6.93	12.14	10.62	4.85	6.35	9.70	12.5	12.5	30.0	9.6	11.2	14.2	71	81	16	17
40	1½	48.9	40.1	33.2	27.2	6.35	5.54	8.92	7.80	12.70	11.12	5.08	7.14	10.15	12.5	12.5	32.0	11.2	12.7	15.7	81	98	17	21
50	2	61.2	51.7	42.1	37.4	6.93	6.04	10.92	9.50	13.84	12.12	5.54	8.74	11.07	16.0	19.0	41.0	12.7	15.7	19.0	98	151	21	30
65	2½	73.9	61.2	-	-	8.76	7.62	-	-	-	-	7.01	-	-	16.0	19.0	43.0	15.7	19.0	-	151	-	30	-
80	3	89.9	76.4	-	-	9.52	8.30	-	-	-	-	7.62	-	-	16.0	19.0	44.5	19.0	22.4	-	184	-	57	-
100	4	115.5	100.7	-	-	10.69	9.35	-	-	-	-	8.56	-	-	19.0	19.0	48.0	22.4	28.4	-	201	-	66	-

Note(continued):

4) When the fittings are reducing,the structure sizes shall be same as the ones of the straight fittings and *B*、*J*、*D* shall be machined per the according reducing ends.
5) Couplings can be the concentric or eccentric type.
6) Fitting can also be manufactured as the mixed connectings of SW and THRD.



Type 1



Type 2

MSS SP-79 SW REDUCER INSERTS

Nominal Size		Type		Socket Bore Dia.	Depth of Socket	Shank Dia.	Laying Length		Bore		Wall		Length			
							A		D		C_{min}		SL		RL_{min}	
DN	NPS	3000	6000	B	K_{min}	SD	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
10 × 8	3/8 × 1/4	1	1	14.3	9.5	17.1	19.1	21.3	9.2	6.4	3.8	4.6	14.2	15.7	-	-
15 × 10	1/2 × 3/8	1	1	17.7	9.5	21.3	20.6	23.1	12.5	9.1	4.0	5.0	15.7	15.7	-	-
× 8	× 1/4	1	1	14.3	9.5		20.6	20.6	9.2	6.4	3.8	4.6	15.7	15.7	-	-
20 × 15	3/4 × 1/2	1	1	21.9	9.5	26.7	22.4	25.4	15.8	11.8	4.7	6.0	17.5	19.1	27.0	-
× 10	× 3/8	2	1	17.7	9.5		15.7	22.4	12.5	9.1	4.0	5.0	-	19.1	27.0	32.0
× 8	× 1/4	2	2	14.3	9.5		17.5	22.4	9.2	6.4	3.8	4.6	-	-	-	-
25 × 20	1 × 3/4	1	1	27.3	12.5	33.4	23.9	28.5	20.9	15.5	4.9	7.0	19.1	20.6	-	-
× 15	× 1/2	2	1	21.9	9.5		15.7	28.5	15.8	11.8	4.7	6.0	-	20.6	28.5	-
× 10	× 3/8	2	2	17.7	9.5		17.5	22.4	12.5	9.1	4.0	5.0	-	-	28.5	33.3
× 8	× 1/4	2	2	14.3	9.5		19.1	23.9	9.2	6.4	3.8	4.6	-	-	28.5	33.3
32 × 25	1¼ × 1	1	1	34.0	12.5	42.2	25.4	30.2	26.6	20.7	5.7	7.9	20.6	22.4	-	-
× 20	× 3/4	2	2	27.3	12.5		17.5	20.6	20.9	15.5	4.9	7.0	-	-	31.8	34.8
× 15	× 1/2	2	2	21.9	9.5		19.1	22.4	15.8	11.8	4.7	6.0	-	-	31.8	34.8
× 10	× 3/8	2	2	17.7	9.5		20.6	23.9	12.5	9.1	4.0	5.0	-	-	31.8	34.8
× 8	× 1/4	2	2	14.3	9.5		22.4	25.4	9.2	6.4	3.8	4.6	-	-	31.8	34.8

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MSS SP-79 SW REDUCER INSERTS

Nominal Size		Type		Socket Bore Dia.	Depth of Socket	Shank Dia.	Laying Length		Bore		Wall		Length			
							A		*D*		C_{min}		*SL*		RL_{min}	
DN	NPS	3000	6000	*B*	K_{min}	*SD*	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
40 × 32	1½ × 1¼	1	1	42.8	12.5		28.5	35.1	35.1	29.5	6.1	7.9	22.4	25.4	-	-
× 25	× 1	2	1	34.0	12.5		17.5	29.2	26.6	20.7	5.7	7.9	-	25.4	33.3	-
× 20	× 3/4	2	2	27.3	12.5	48.3	19.1	25.4	20.9	15.5	4.9	7.0	-	-	33.3	39.6
× 15	× 1/2	2	2	22.0	9.5		20.6	26.9	15.8	11.8	4.7	6.0	-	-	33.3	39.6
× 10	× 3/8	2	2	17.7	9.5		22.4	28.5	12.5	9.1	4.0	5.0	-	-	33.3	39.6
50 × 40	2 × 1½	1	1	48.9	12.5		31.8	38.9	40.9	34.0	6.4	8.9	25.4	28.7	-	-
× 32	× 1¼	2	2	42.8	12.5		20.6	23.9	35.1	29.5	6.1	7.9	-	-	38.1	41.2
× 25	× 1	2	2	34.0	12.5	60.3	22.4	25.4	26.6	20.7	5.7	7.9	-	-	38.1	41.2
× 20	× 3/4	2	2	27.3	12.5		23.9	26.9	20.9	15.5	4.9	7.0	-	-	38.1	41.2
× 15	× 1/2	2	2	21.9	9.5		25.4	28.5	15.8	11.8	4.7	6.0	-	-	38.1	41.2
65 × 50	2½ × 2	1	1	61.4	16.0		46.0	42.7	52.5	42.9	6.9	10.9	38.1	31.8	-	-
× 40	× 1½	2	2	48.9	12.5		35.1	35.1	40.9	34.0	6.4	8.9	-	-	53.9	53.9
× 32	× 1¼	2	2	42.8	12.5	73.0	36.6	36.6	35.1	29.5	6.1	7.9	-	-	53.9	53.9
× 25	× 1	2	2	34.0	12.5		38.1	38.1	26.6	20.7	5.7	7.9	-	-	53.9	53.9
× 20	× 3/4	2	2	27.3	12.5		39.6	38.1	20.9	15.5	4.9	7.0	-	-	53.9	53.9
80 × 65	3 × 2½	1	1	74.1	16.0		38.1	57.2	62.7	54.0	8.8	11.9	31.8	44.5	-	-
× 50	× 2	2	2	61.4	16.0		25.4	31.8	52.5	42.9	6.9	10.9	-	-	47.5	53.9
× 40	× 1½	2	2	48.9	12.5	88.9	28.5	31.8	40.9	34.0	6.4	8.9	-	-	47.5	53.9
× 32	× 1¼	2	2	42.8	12.5		30.2	31.8	35.1	29.5	6.1	7.9	-	-	47.5	53.9
× 25	× 1	2	2	34.0	12.5		31.8	31.8	26.6	20.7	5.7	7.9	-	-	47.5	53.9
100 × 80	4 × 3	2	1	90.0	16.0		33.3	54.0	77.9	66.6	9.5	13.8	-	-	60.5	-
× 65	× 2½	2	2	74.1	16.0		38.1	54.0	62.7	54.0	8.8	12.5	-	-	60.5	-
× 50	× 2	2	2	61.4	16.0	114.3	38.1	54.0	52.5	42.9	6.9	11.0	-	-	60.5	-
× 40	× 1½	2	2	48.9	12.5		41.2	57.0	40.9	34.0	6.4	8.9	-	-	60.5	-
× 32	× 1¼	2	2	42.8	12.5		42.9	57.0	35.1	29.5	6.1	7.9	-	-	60.5	-

Note:
1) At option of the manufacturer, type 2 reducers may be furnished instead of type 1.
2) The nominal size is showed as *SD* × *B*.