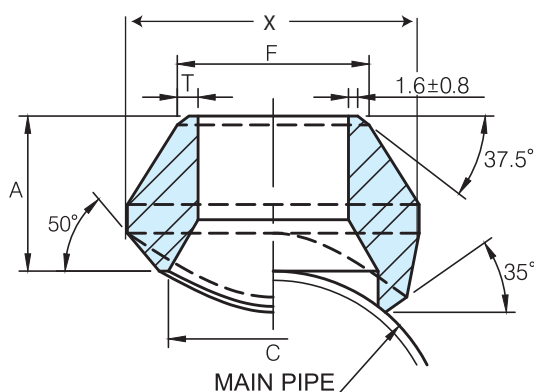
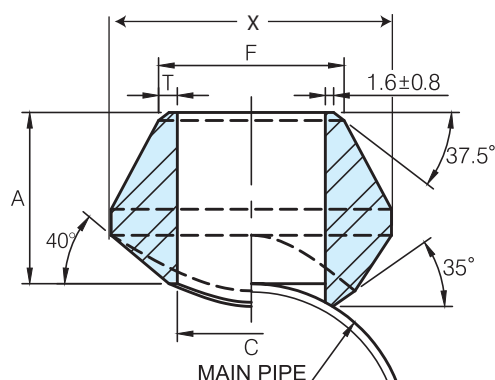


BUTT WELDING END 90° BRANCH OUTLET

MSS SP-97-2012



REDUCING WAY



STRAIGHT WAY

STANDARD

Dimensions are in millimeters.

Reducing way					
OutLet Pipe (in)	A	X	C	F	T
1/8	15.7	25.4	13.7	10.3	1.73
1/4	15.7	25.4	13.7	13.7	2.24
3/8	19.1	31.8	17.1	17.1	2.31
1/2	19.1	34.9	21.3	21.3	2.77
3/4	22.4	44.5	26.7	26.7	2.87
1	26.9	54.0	33.4	33.4	3.38
1-1/4	31.8	65.1	42.2	42.2	3.56
1-1/2	33.3	73.0	48.3	48.3	3.68
2	38.1	88.9	60.3	60.3	3.91
2-1/2	41.1	103.2	73.0	73.0	5.16
3	44.4	122.2	88.9	88.9	5.49
3-1/2	47.8	142.9	101.6	101.6	5.74
4	50.8	152.4	114.3	114.3	6.02
5	57.2	179.4	141.3	141.3	6.55
6	60.4	215.9	168.3	168.3	7.11
8	69.8	263.5	219.3	219.3	8.11
10	77.7	322.3	273.1	273.1	9.27
12	85.9	377.8	323.9	323.9	9.53
14	88.9	409.6	355.6	355.6	9.53
16	93.7	463.6	406.4	406.4	9.53
18	96.8	520.7	457.2	457.2	9.53
20	101.6	571.5	508.0	508.0	9.53
24	115.8	689.0	609.6	609.6	9.53

(1) Weld Bevel in accordance with ASME B16.25.

Dimensions are in millimeters.

Straight way					
OutLet Pipe (in)	A	X	C	F	T
1/4	15.7	25.4	11.5	13.7	2.24
3/8	19.1	31.8	14.5	17.1	2.31
1/2	19.1	34.9	16.5	21.3	2.77
3/4	22.4	44.5	21.5	26.7	2.87
1	26.9	54.0	27.2	33.4	3.38
1-1/4	31.8	65.1	36.0	42.2	3.56
1-1/2	33.3	73.0	42.0	48.3	3.68
2	38.1	88.9	53.0	60.3	3.91
2-1/2	41.1	103.2	65.0	73.0	5.16
3	44.4	122.2	80.0	88.9	5.49
4	50.8	152.4	104.0	114.3	6.02

(1) Weld Bevel in accordance with ASME B16.25.

DIMENSIONAL TOLERANCE

MSS SP-97-2012

Dimensions are in millimeters.

Item	1/8"~3/4"	1"~4"	5"~12"	14"~24"
Face of fitting to crotch (A)	±0.8	±1.6	±3.2	±4.8