



SECTIONAL DETAIL OF OUTLET

NOTE: ALL WELDS ARE FULL DOUBLE PASS WELDS.

NOMINAL OUTLET DIA (in.)	MINIMUM "t _r " (in.)	HUB FLANGE	
		"C" (in.)	A (in.)
4	0.237	7 1/2	9
6	0.280	9 1/2	11
8	0.322	11 3/4	13 1/2
10	0.366	14 1/4	16
12	0.375	17	19
14	0.375	18 3/4	21
16	0.375	21 1/4	23 1/2
18	0.375	22 3/4	25
20	0.375	25	27 1/2

NOTES:

- 1.) SEE MAINLINE PIPING DRAWING FOR POSITION AND USE OF OUTLET.
- 2.) STEEL HUB FLANGE CLASS D OR E AS PER AWWA STD. C207, SEE ABOVE.
- 3.) SEE MAINLINE PIPE DRAWING FOR MINIMUM DESIGN THICKNESS "T_r".
- 4.) "w" AND "T", REINFORCEMENT PLATE DIMENSIONS FOR OUTLET JOINTS, TO BE DESIGNED PER AWWA M11, OR EQUAL TO MANUFACTURERS REINFORCING GUIDE.
- 5.) "T_y" = MAINLINE CYLINDER THICKNESS.
- 6.) "T_r" = REQUIRED MAINLINE CYLINDER THICKNESS.
- 7.) "t_y" = BRANCH CYLINDER THICKNESS.
- 8.) "t_r" = REQUIRED BRANCH CYLINDER THICKNESS.



WATER DISTRIBUTION & TRANSMISSION
PIPELINE CONSTRUCTION METHODS

TYPICAL FLANGED OUTLET
4" THROUGH 20"