

# 22 11 Facility Water Distribution

## 22 11 13 – Facility Water Distribution Piping

22 11 13.48 Pipe, Fittings and Valves, Steel, Grooved-Joint									
		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total
							Labor	Equipment	Total Incl O&P
0010	<b>PIPE, FITTINGS AND VALVES, STEEL, GROOVED-JOINT</b>								
0012	Fittings are ductile iron. Steel fittings noted.								
0020	Pipe includes coupling & clevis type hanger assemblies, 10' OC								
1000	Schedule 40, black								
1040	3/4" diameter	1 Plum	71	.113	L.F.	6.10	7.85		13.95 18.45
1050	1" diameter		63	.127		5.65	8.85		14.50 19.40
1060	1-1/4" diameter		58	.138		7.25	9.65		16.90 22.50
1070	1-1/2" diameter		51	.157		8.15	10.95		19.10 25.50
1080	2" diameter		40	.200		9.65	13.95		23.60 31.50
1090	2-1/2" diameter	Q-1	57	.281		15.30	17.65		32.95 43.50
1100	3" diameter		50	.320		18.75	20		38.75 50.50
1110	4" diameter		45	.356		26.50	22.50		49 63
1120	5" diameter		37	.432		32	27		59 76
1130	6" diameter	Q-2	42	.571		36	37		73 95.50
1800	Galvanized								
1840	3/4" diameter	1 Plum	71	.113	L.F.	6.55	7.85		14.40 18.95
1850	1" diameter		63	.127		6.55	8.85		15.40 20.50
1860	1-1/4" diameter		58	.138		8.45	9.65		18.10 23.50
1870	1-1/2" diameter		51	.157		9.55	10.95		20.50 27
1880	2" diameter		40	.200		11.75	13.95		25.70 34
1890	2-1/2" diameter	Q-1	57	.281		17.40	17.65		35.05 45.50
1900	3" diameter		50	.320		21.50	20		41.50 53.50
1910	4" diameter		45	.356		30.50	22.50		53 67.50
1920	5" diameter		37	.432		32	27		59 76
1930	6" diameter	Q-2	42	.571		42.50	37		79.50 102
3990	Fittings: coupling material required at joints not incl. in fitting price.								
3994	Add 1 selected coupling, material only, per joint for installed price.								
4000	Elbow, 90° or 45°, painted								
4030	3/4" diameter	1 Plum	50	.160	Ea.	101	11.15		112.15 128
4040	1" diameter		50	.160		54	11.15		65.15 76
4050	1-1/4" diameter		40	.200		54	13.95		67.95 80.50
4060	1-1/2" diameter		33	.242		54	16.90		70.90 84.50
4070	2" diameter		25	.320		54	22.50		76.50 93
4080	2-1/2" diameter	Q-1	40	.400	Ea.	54	25		79 97
4090	3" diameter		33	.485		95	30.50		125.50 150
4100	4" diameter		25	.640		103	40		143 173
4110	5" diameter		20	.800		244	50.50		294.50 345
4120	6" diameter	Q-2	25	.960		287	62.50		349.50 410
4250	For galvanized elbows, add								
4690	Tee, painted								
4700	3/4" diameter	1 Plum	38	.211	Ea.	108	14.70		122.70 141
4740	1" diameter		33	.242		83.50	16.90		100.40 117
4750	1-1/4" diameter		27	.296		83.50	20.50		104 123
4760	1-1/2" diameter		22	.364		83.50	25.50		109 130
4770	2" diameter		17	.471		83.50	33		116.50 141
4780	2-1/2" diameter	Q-1	27	.593		83.50	37		120.50 147
4790	3" diameter		22	.727		114	45.50		159.50 193
4800	4" diameter		17	.941		173	59		232 278
4810	5" diameter		13	1.231		400	77.50		477.50 555
4820	6" diameter	Q-2	17	1.412		465	92		557 645
4900	For galvanized tees, add								
4906	Couplings, rigid style, painted								
						24%			