

22 11 Facility Water Distribution

22 11 19 – Domestic Water Piping Specialties

22 11 19.50 Vacuum Breakers		Daily Crew	Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
1220	1/4" size	1 Stpi	24	.333	Ea.	187	23.50		210.50	240
1230	3/8" size	"	24	.333		187	23.50		210.50	240
1260	For polished chrome finish, add				↓	13%				
2000	Anti-siphon, non-continuous pressure type									
2010	Hot or cold water 125 psi - 210°F									
2020	Bronze body									
2030	1/4" size	1 Stpi	24	.333	Ea.	114	23.50		137.50	160
2040	3/8" size		24	.333		114	23.50		137.50	160
2050	1/2" size		24	.333		128	23.50		151.50	176
2060	3/4" size		20	.400		153	28		181	210
2070	1" size		19	.421		236	29.50		265.50	305
2080	1-1/4" size		15	.533		415	37.50		452.50	510
2090	1-1/2" size		13	.615		460	43.50		503.50	570
2100	2" size		11	.727		755	51		806	905
2110	2-1/2" size		8	1		2,175	70.50		2,245.50	2,475
2120	3" size	↓	6	1.333	↓	2,875	94		2,969	3,325
2150	For polished chrome finish, add					50%				

22 11 19.54 Water Hammer Arresters/Shock Absorbers

0010 WATER HAMMER ARRESTERS/SHOCK ABSORBERS										
0490	Copper:									
0500	3/4" male IPS for 1 to 11 fixtures	1 Plum	12	.667	Ea.	35.50	46.50		82	109
0600	1" male IPS for 12 to 32 fixtures		8	1		59.50	70		129.50	170
0700	1-1/4" male IPS for 33 to 60 fixtures		8	1		58	70		128	168
0800	1-1/2" male IPS for 61 to 113 fixtures		8	1		84	70		154	197
0900	2" male IPS for 114 to 154 fixtures		8	1		124	70		194	240
1000	2-1/2" male IPS for 155 to 330 fixtures	↓	4	2	↓	355	140		495	600

22 11 19.64 Hydrants

0010 HYDRANTS										
0050	Wall type, moderate climate, bronze, encased									
0200	3/4" IPS connection	1 Plum	16	.500	Ea.	1,375	35		1,410	1,550
0300	1" IPS connection		14	.571		2,900	40		2,940	3,225
0500	Anti-siphon type, 3/4" connection	↓	16	.500	↓	1,075	35		1,110	1,225
1000	Non-freeze, bronze, exposed									
1100	3/4" IPS connection, 4" to 9" thick wall	1 Plum	14	.571	Ea.	655	40		695	780
1120	10" to 14" thick wall		12	.667		575	46.50		621.50	700
1140	15" to 19" thick wall		12	.667		730	46.50		776.50	875
1160	20" to 24" thick wall	↓	10	.800	↓	995	56		1,051	1,175
1200	For 1" IPS connection, add					15%	10%			
1240	For 3/4" adapter type vacuum breaker, add				Ea.	116			116	127
1280	For anti-siphon type, add				"	246			246	271
2000	Non-freeze bronze, encased, anti-siphon type									
2100	3/4" IPS connection, 5" to 9" thick wall	1 Plum	14	.571	Ea.	1,650	40		1,690	1,850
2120	10" to 14" thick wall		12	.667		2,150	46.50		2,196.50	2,425
2140	15" to 19" thick wall	↓	12	.667	↓	2,275	46.50		2,321.50	2,575
3000	Ground box type, bronze frame, 3/4" IPS connection									
3080	Non-freeze, all bronze, polished face, set flush									
3100	2' depth of bury	1 Plum	8	1	Ea.	1,500	70		1,570	1,750
3140	4' depth of bury		8	1		1,125	70		1,195	1,325
3180	6' depth of bury		7	1.143		1,300	80		1,380	1,550
3220	8' depth of bury	↓	5	1.600		1,450	112		1,562	1,775
3400	For 1" IPS connection, add					15%	10%			
3550	For 2" IPS connection, add					445%	24%			