

付 表

付表-1 動水勾配早見表 (PEW : 水道用ポリエチレン二層管)

流量 [L/min]	動水勾配 [‰]		
	流速 [m/s]		
	φ13 (14.5)	φ20 (19.0)	φ25 (24.0)
8.0	69.277 0.81	20.753 0.47	7.355 0.29
9.0	84.757 0.91	25.305 0.53	8.944 0.33
10.0	101.586 1.01	30.238 0.59	10.662 0.37
11.0	119.742 1.11	35.543 0.65	12.506 0.41
12.0	139.205 1.21	41.215 0.71	14.472 0.44
13.0	159.957 1.31	47.248 0.76	16.559 0.48
14.0	181.984 1.41	53.637 0.82	18.765 0.52
15.0	205.273 1.51	60.377 0.88	21.089 0.55
16.0	229.810 1.61	67.465 0.94	23.528 0.59
17.0	255.585 1.72	74.897 1.00	26.082 0.63
18.0	282.588 1.82	82.669 1.06	28.748 0.66
19.0	310.809 1.92	90.778 1.12	31.527 0.70
20.0	340.241 2.02	99.223 1.18	34.417 0.74
21.0	370.876 2.12	107.999 1.23	37.416 0.77
22.0	402.706 2.22	117.105 1.29	40.525 0.81
23.0	435.724 2.32	126.539 1.35	43.742 0.85
24.0	469.925 2.42	136.299 1.41	47.067 0.88
25.0	505.302 2.52	146.382 1.47	50.498 0.92
26.0	541.850 2.62	156.787 1.53	54.035 0.96
27.0	579.564 2.73	167.512 1.59	57.678 0.99
28.0	618.439 2.83	178.556 1.65	61.425 1.03
29.0	658.470 2.93	189.916 1.70	65.277 1.07
30.0	699.653 3.03	201.592 1.76	69.232 1.11
31.0	741.983 3.13	213.582 1.82	73.290 1.14
32.0	785.457 3.23	225.885 1.88	77.451 1.18
33.0	830.071 3.33	238.500 1.94	81.715 1.22
34.0	875.821 3.43	251.425 2.00	86.079 1.25
35.0	922.704 3.53	264.659 2.06	90.546 1.29
36.0	970.716 3.63	278.201 2.12	95.113 1.33
37.0	1019.855 3.73	292.051 2.17	99.781 1.36

流量 [L/min]	動水勾配 [‰]		
	流速 [m/s]		
	φ13 (14.5)	φ20 (19.0)	φ25 (24.0)
38.0	1070.117 3.84	306.207 2.23	104.548 1.40
39.0	1121.499 3.94	320.668 2.29	109.416 1.44
40.0	1173.999 4.04	335.433 2.35	114.383 1.47
41.0	1227.614 4.14	350.501 2.41	119.449 1.51
42.0	1282.341 4.24	365.872 2.47	124.613 1.55
43.0	1338.178 4.34	381.545 2.53	129.876 1.58
44.0	1395.122 4.44	397.519 2.59	135.238 1.62
45.0	1453.171 4.54	413.793 2.65	140.697 1.66
46.0	1512.323 4.64	430.366 2.70	146.253 1.69
47.0	1572.575 4.74	447.238 2.76	151.907 1.73
48.0	1633.926 4.84	464.408 2.82	157.658 1.77
49.0	1696.374 4.95	481.875 2.88	163.506 1.81
50.0	1759.916 5.05	499.639 2.94	169.450 1.84
51.0	1824.550 5.15	517.698 3.00	175.491 1.88
52.0	1890.275 5.25	536.054 3.06	181.627 1.92
53.0	1957.089 5.35	554.704 3.12	187.859 1.95
54.0	2024.990 5.45	573.648 3.17	194.187 1.99
55.0	2093.977 5.55	592.886 3.23	200.611 2.03
56.0	2164.047 5.65	612.418 3.29	207.129 2.06
57.0	2235.199 5.75	632.242 3.35	213.743 2.10
58.0	2307.432 5.85	652.357 3.41	220.451 2.14
59.0	2380.743 5.95	672.765 3.47	227.254 2.17
60.0	2455.133 6.06	693.464 3.53	234.151 2.21
61.0	2530.598 6.16	714.453 3.59	241.143 2.25
62.0	2607.138 6.26	735.732 3.64	248.229 2.28
63.0	2684.751 6.36	757.301 3.70	255.408 2.32
64.0	2763.436 6.46	779.160 3.76	262.681 2.36
65.0	2843.192 6.56	801.307 3.82	270.048 2.39
66.0	2924.016 6.66	823.742 3.88	277.508 2.43
67.0	3005.909 6.76	846.466 3.94	285.061 2.47

付表-2 動水勾配早見表 (VLP:水道用硬質塩化ビニルライニング鋼管)

流量 [L/min]	動水勾配 [‰]				
	流速 [m/s]				
	15A (13.1)	20A (18.6)	25A (24.6)	32A (32.7)	40A (38.6)
8.0	109.206 0.99	22.813 0.49	6.591 0.28	1.861 0.16	0.887 0.11
9.0	133.786 1.11	27.824 0.55	8.014 0.32	2.257 0.18	1.074 0.13
10.0	160.543 1.24	33.255 0.61	9.551 0.35	2.683 0.20	1.275 0.14
11.0	189.442 1.36	39.098 0.67	11.200 0.39	3.139 0.22	1.490 0.16
12.0	220.453 1.48	45.346 0.74	12.958 0.42	3.624 0.24	1.719 0.17
13.0	253.551 1.61	51.993 0.80	14.824 0.46	4.137 0.26	1.960 0.19
14.0	288.713 1.73	59.034 0.86	16.797 0.49	4.679 0.28	2.215 0.20
15.0	325.917 1.85	66.462 0.92	18.873 0.53	5.248 0.30	2.482 0.21
16.0	365.146 1.98	74.275 0.98	21.053 0.56	5.845 0.32	2.762 0.23
17.0	406.382 2.10	82.468 1.04	23.334 0.60	6.468 0.34	3.054 0.24
18.0	449.612 2.23	91.038 1.10	25.716 0.63	7.118 0.36	3.358 0.26
19.0	494.820 2.35	99.981 1.17	28.198 0.67	7.793 0.38	3.675 0.27
20.0	541.994 2.47	109.294 1.23	30.779 0.70	8.495 0.40	4.003 0.28
21.0	591.123 2.60	118.975 1.29	33.458 0.74	9.222 0.42	4.342 0.30
22.0	642.195 2.72	129.021 1.35	36.233 0.77	9.975 0.44	4.694 0.31
23.0	695.200 2.84	139.429 1.41	39.105 0.81	10.753 0.46	5.057 0.33
24.0	750.128 2.97	150.197 1.47	42.073 0.84	11.556 0.48	5.431 0.34
25.0	806.972 3.09	161.324 1.53	45.135 0.88	12.383 0.50	5.817 0.36
26.0	865.721 3.22	172.806 1.59	48.292 0.91	13.235 0.52	6.214 0.37
27.0	926.370 3.34	184.643 1.66	51.543 0.95	14.111 0.54	6.621 0.38
28.0	988.909 3.46	196.832 1.72	54.887 0.98	15.012 0.56	7.040 0.40
29.0	1053.332 3.59	209.373 1.78	58.323 1.02	15.937 0.58	7.470 0.41
30.0	1119.633 3.71	222.262 1.84	61.852 1.05	16.885 0.60	7.911 0.43
31.0	1187.805 3.83	235.500 1.90	65.472 1.09	17.857 0.62	8.363 0.44
32.0	1257.841 3.96	249.083 1.96	69.184 1.12	18.853 0.64	8.825 0.46
33.0	1329.737 4.08	263.012 2.02	72.986 1.16	19.873 0.65	9.298 0.47
34.0	1403.487 4.20	277.284 2.09	76.879 1.19	20.915 0.67	9.782 0.48
35.0	1479.085 4.33	291.899 2.15	80.862 1.23	21.981 0.69	10.276 0.50
36.0	1556.527 4.45	306.855 2.21	84.935 1.26	23.070 0.71	10.781 0.51
37.0	1635.808 4.58	322.151 2.27	89.097 1.30	24.183 0.73	11.296 0.53

流量 [L/min]	動水勾配 [‰]		
	流速 [m/s]		
	25A (24.6)	32A (32.7)	40A (38.6)
38.0	93.347 1.33	25.318 0.75	11.822 0.54
39.0	97.687 1.37	26.476 0.77	12.358 0.56
40.0	102.115 1.40	27.656 0.79	12.904 0.57
41.0	106.631 1.44	28.859 0.81	13.461 0.58
42.0	111.235 1.47	30.085 0.83	14.028 0.60
43.0	115.926 1.51	31.334 0.85	14.605 0.61
44.0	120.704 1.54	32.604 0.87	15.192 0.63
45.0	125.569 1.58	33.897 0.89	15.789 0.64
46.0	130.521 1.61	35.212 0.91	16.397 0.66
47.0	135.560 1.65	36.550 0.93	17.014 0.67
48.0	140.684 1.68	37.909 0.95	17.641 0.68
49.0	145.895 1.72	39.291 0.97	18.279 0.70
50.0	151.191 1.75	40.694 0.99	18.926 0.71
51.0	156.573 1.79	42.120 1.01	19.583 0.73
52.0	162.040 1.82	43.567 1.03	20.250 0.74
53.0	167.592 1.86	45.036 1.05	20.927 0.75
54.0	173.229 1.89	46.526 1.07	21.614 0.77
55.0	178.951 1.93	48.038 1.09	22.310 0.78
56.0	184.758 1.96	49.572 1.11	23.016 0.80
57.0	190.648 2.00	51.128 1.13	23.732 0.81
58.0	196.623 2.03	52.705 1.15	24.458 0.83
59.0	202.682 2.07	54.303 1.17	25.193 0.84
60.0	208.825 2.10	55.923 1.19	25.938 0.85
61.0	215.051 2.14	57.564 1.21	26.693 0.87
62.0	221.361 2.17	59.226 1.23	27.457 0.88
63.0	227.755 2.21	60.909 1.25	28.231 0.90
64.0	234.231 2.24	62.614 1.27	29.014 0.91
65.0	240.791 2.28	64.340 1.29	29.807 0.93
66.0	247.433 2.31	66.087 1.31	30.610 0.94
67.0	254.158 2.35	67.855 1.33	31.422 0.95

付表-3 動水勾配早見表 (VP:水道用硬質ポリ塩化ビニル管)

流量 [L/min]	動水勾配 [%]				
	流速 [m/s]				
	φ13 (13)	φ20 (20)	φ25 (25)	φ30 (31)	φ40 (40)
8.0	113.029	16.522	6.136	2.360	0.756
	1.00	0.42	0.27	0.18	0.11
9.0	138.483	20.134	7.459	2.863	0.915
	1.13	0.48	0.31	0.20	0.12
10.0	166.195	24.046	8.889	3.406	1.086
	1.26	0.53	0.34	0.22	0.13
11.0	196.128	28.251	10.422	3.986	1.269
	1.38	0.58	0.37	0.24	0.15
12.0	228.251	32.744	12.056	4.604	1.463
	1.51	0.64	0.41	0.26	0.16
13.0	262.538	37.521	13.791	5.258	1.669
	1.63	0.69	0.44	0.29	0.17
14.0	298.965	42.577	15.624	5.948	1.885
	1.76	0.74	0.48	0.31	0.19
15.0	337.511	47.910	17.553	6.674	2.112
	1.88	0.80	0.51	0.33	0.20
16.0	378.156	53.515	19.578	7.434	2.350
	2.01	0.85	0.54	0.35	0.21
17.0	420.885	59.390	21.698	8.229	2.598
	2.13	0.90	0.58	0.38	0.23
18.0	465.680	65.533	23.911	9.058	2.856
	2.26	0.95	0.61	0.40	0.24
19.0	512.528	71.940	26.217	9.921	3.125
	2.39	1.01	0.65	0.42	0.25
20.0	561.415	78.610	28.614	10.817	3.403
	2.51	1.06	0.68	0.44	0.27
21.0	612.329	85.540	31.101	11.746	3.692
	2.64	1.11	0.71	0.46	0.28
22.0	665.260	92.729	33.679	12.707	3.990
	2.76	1.17	0.75	0.49	0.29
23.0	720.196	100.175	36.346	13.701	4.298
	2.89	1.22	0.78	0.51	0.31
24.0	777.128	107.875	39.101	14.727	4.616
	3.01	1.27	0.81	0.53	0.32
25.0	836.047	115.830	41.945	15.784	4.943
	3.14	1.33	0.85	0.55	0.33
26.0	896.943	124.036	44.875	16.874	5.280
	3.26	1.38	0.88	0.57	0.34
27.0	959.809	132.493	47.893	17.994	5.626
	3.39	1.43	0.92	0.60	0.36
28.0	1024.637	141.200	50.997	19.146	5.981
	3.52	1.49	0.95	0.62	0.37
29.0	1091.420	150.154	54.187	20.329	6.346
	3.64	1.54	0.98	0.64	0.38
30.0	1160.151	159.356	57.462	21.542	6.719
	3.77	1.59	1.02	0.66	0.40
31.0	1230.824	168.804	60.822	22.786	7.102
	3.89	1.64	1.05	0.68	0.41
32.0	1303.431	178.496	64.267	24.061	7.494
	4.02	1.70	1.09	0.71	0.42
33.0	1377.968	188.432	67.796	25.365	7.895
	4.14	1.75	1.12	0.73	0.44
34.0	1454.429	198.611	71.408	26.700	8.305
	4.27	1.80	1.15	0.75	0.45
35.0	1532.807	209.032	75.104	28.065	8.724
	4.39	1.86	1.19	0.77	0.46
36.0	1613.099	219.694	78.883	29.460	9.152
	4.52	1.91	1.22	0.79	0.48
37.0	1695.299	230.596	82.745	30.884	9.589
	4.65	1.96	1.26	0.82	0.49

流量 [L/min]	動水勾配 [%]			
	流速 [m/s]			
	φ20 (20)	φ25 (25)	φ30 (31)	φ40 (40)
38.0	241.738	86.689	32.338	10.034
	2.02	1.29	0.84	0.50
39.0	253.118	90.715	33.821	10.488
	2.07	1.32	0.86	0.52
40.0	264.737	94.823	35.334	10.951
	2.12	1.36	0.88	0.53
41.0	276.592	99.013	36.876	11.423
	2.18	1.39	0.91	0.54
42.0	288.684	103.283	38.446	11.903
	2.23	1.43	0.93	0.56
43.0	301.012	107.635	40.046	12.392
	2.28	1.46	0.95	0.57
44.0	313.575	112.067	41.675	12.889
	2.33	1.49	0.97	0.58
45.0	326.372	116.580	43.333	13.395
	2.39	1.53	0.99	0.60
46.0	339.403	121.173	45.019	13.909
	2.44	1.56	1.02	0.61
47.0	352.668	125.846	46.734	14.432
	2.49	1.60	1.04	0.62
48.0	366.166	130.599	48.477	14.963
	2.55	1.63	1.06	0.64
49.0	379.896	135.431	50.249	15.503
	2.60	1.66	1.08	0.65
50.0	393.857	140.343	52.049	16.051
	2.65	1.70	1.10	0.66
51.0	408.050	145.334	53.878	16.607
	2.71	1.73	1.13	0.68
52.0	422.474	150.404	55.734	17.172
	2.76	1.77	1.15	0.69
53.0	437.128	155.553	57.619	17.745
	2.81	1.80	1.17	0.70
54.0	452.012	160.780	59.531	18.326
	2.86	1.83	1.19	0.72
55.0	467.125	166.086	61.472	18.916
	2.92	1.87	1.21	0.73
56.0	482.467	171.470	63.441	19.514
	2.97	1.90	1.24	0.74
57.0	498.037	176.932	65.437	20.120
	3.02	1.94	1.26	0.76
58.0	513.835	182.471	67.461	20.734
	3.08	1.97	1.28	0.77
59.0	529.861	188.089	69.513	21.356
	3.13	2.00	1.30	0.78
60.0	546.115	193.784	71.592	21.986
	3.18	2.04	1.32	0.80
61.0	562.595	199.557	73.699	22.625
	3.24	2.07	1.35	0.81
62.0	579.302	205.407	75.833	23.271
	3.29	2.11	1.37	0.82
63.0	596.234	211.334	77.995	23.926
	3.34	2.14	1.39	0.84
64.0	613.393	217.338	80.185	24.589
	3.40	2.17	1.41	0.85
65.0	630.777	223.419	82.401	25.260
	3.45	2.21	1.44	0.86
66.0	648.386	229.576	84.645	25.939
	3.50	2.24	1.46	0.88
67.0	666.220	235.810	86.916	26.625
	3.55	2.27	1.48	0.89

付表-4 動水勾配早見表 (PEX：架橋ポリエチレン管)

流量 [L/min]	動水勾配 [%]				
	流速 [m/s]				
	φ13 (12.8)	φ16 (16.2)	φ20 (20.5)	φ25 (26.0)	φ30 (32.1)
8.0	121.182	42.214	14.806	5.156	2.021
	1.04	0.65	0.40	0.25	0.16
9.0	148.503	51.573	18.037	6.265	2.451
	1.17	0.73	0.45	0.28	0.19
10.0	178.252	61.735	21.536	7.463	2.914
	1.30	0.81	0.50	0.31	0.21
11.0	210.392	72.684	25.296	8.747	3.410
	1.42	0.89	0.56	0.35	0.23
12.0	244.889	84.408	29.313	10.116	3.938
	1.55	0.97	0.61	0.38	0.25
13.0	281.715	96.896	33.582	11.568	4.496
	1.68	1.05	0.66	0.41	0.27
14.0	320.845	110.138	38.101	13.102	5.085
	1.81	1.13	0.71	0.44	0.29
15.0	362.256	124.126	42.865	14.716	5.705
	1.94	1.21	0.76	0.47	0.31
16.0	405.928	138.852	47.872	16.410	6.354
	2.07	1.29	0.81	0.50	0.33
17.0	451.842	154.310	53.119	18.183	7.032
	2.20	1.37	0.86	0.53	0.35
18.0	499.982	170.492	58.605	20.033	7.739
	2.33	1.46	0.91	0.57	0.37
19.0	550.333	187.394	64.325	21.960	8.474
	2.46	1.54	0.96	0.60	0.39
20.0	602.880	205.009	70.280	23.963	9.238
	2.59	1.62	1.01	0.63	0.41
21.0	657.611	223.332	76.466	26.041	10.030
	2.72	1.70	1.06	0.66	0.43
22.0	714.514	242.360	82.882	28.195	10.849
	2.85	1.78	1.11	0.69	0.45
23.0	773.577	262.088	89.526	30.422	11.696
	2.98	1.86	1.16	0.72	0.47
24.0	834.790	282.512	96.398	32.723	12.570
	3.11	1.94	1.21	0.75	0.49
25.0	898.143	303.628	103.495	35.097	13.471
	3.24	2.02	1.26	0.78	0.51
26.0	963.627	325.432	110.816	37.544	14.399
	3.37	2.10	1.31	0.82	0.54
27.0	1031.234	347.922	118.360	40.062	15.353
	3.50	2.18	1.36	0.85	0.56
28.0	1100.954	371.095	126.125	42.653	16.334
	3.63	2.26	1.41	0.88	0.58
29.0	1172.781	394.946	134.112	45.314	17.341
	3.76	2.34	1.46	0.91	0.60
30.0	1246.707	419.474	142.317	48.047	18.374
	3.89	2.43	1.51	0.94	0.62
31.0	1322.725	444.676	150.742	50.850	19.433
	4.02	2.51	1.57	0.97	0.64
32.0	1400.829	470.550	159.384	53.723	20.518
	4.14	2.59	1.62	1.00	0.66
33.0	1481.012	497.092	168.242	56.666	21.628
	4.27	2.67	1.67	1.04	0.68
34.0	1563.268	524.301	177.317	59.678	22.764
	4.40	2.75	1.72	1.07	0.70
35.0	1647.591	552.175	186.606	62.760	23.926
	4.53	2.83	1.77	1.10	0.72
36.0	1733.977	580.710	196.110	65.910	25.112
	4.66	2.91	1.82	1.13	0.74
37.0	1822.418	609.907	205.827	69.129	26.324
	4.79	2.99	1.87	1.16	0.76

流量 [L/min]	動水勾配 [%]		
	流速 [m/s]		
	φ20 (20.5)	φ25 (26.0)	φ30 (32.1)
38.0	215.757	72.417	27.561
	1.92	1.19	0.78
39.0	225.899	75.772	28.823
	1.97	1.22	0.80
40.0	236.252	79.196	30.109
	2.02	1.26	0.82
41.0	246.816	82.687	31.421
	2.07	1.29	0.84
42.0	257.589	86.245	32.757
	2.12	1.32	0.86
43.0	268.573	89.870	34.117
	2.17	1.35	0.89
44.0	279.765	93.562	35.502
	2.22	1.38	0.91
45.0	291.166	97.321	36.912
	2.27	1.41	0.93
46.0	302.774	101.147	38.345
	2.32	1.44	0.95
47.0	314.590	105.039	39.803
	2.37	1.48	0.97
48.0	326.612	108.997	41.285
	2.42	1.51	0.99
49.0	338.841	113.020	42.791
	2.47	1.54	1.01
50.0	351.275	117.110	44.321
	2.52	1.57	1.03
51.0	363.915	121.265	45.875
	2.58	1.60	1.05
52.0	376.760	125.486	47.453
	2.63	1.63	1.07
53.0	389.809	129.772	49.054
	2.68	1.66	1.09
54.0	403.062	134.123	50.680
	2.73	1.70	1.11
55.0	416.519	138.539	52.328
	2.78	1.73	1.13
56.0	430.179	143.019	54.001
	2.83	1.76	1.15
57.0	444.042	147.565	55.697
	2.88	1.79	1.17
58.0	458.107	152.175	57.417
	2.93	1.82	1.19
59.0	472.374	156.849	59.159
	2.98	1.85	1.22
60.0	486.844	161.588	60.926
	3.03	1.88	1.24
61.0	501.514	166.390	62.715
	3.08	1.91	1.26
62.0	516.385	171.257	64.528
	3.13	1.95	1.28
63.0	531.458	176.187	66.364
	3.18	1.98	1.30
64.0	546.730	181.182	68.224
	3.23	2.01	1.32
65.0	562.203	186.240	70.106
	3.28	2.04	1.34
66.0	577.875	191.361	72.011
	3.33	2.07	1.36
67.0	593.747	196.546	73.940
	3.38	2.10	1.38

付表-5 動水勾配早見表 (PB : ポリブテン管)

流量 [L/min]	動水勾配 [%]				
	流速 [m/s]				
	φ13 (12.8)	φ16 (16.8)	φ20 (21.2)	φ25 (28.1)	φ30 (34.9)
8.0	121.182	35.894	12.755	3.652	1.392
	1.04	0.60	0.38	0.21	0.14
9.0	148.503	43.832	15.533	4.435	1.687
	1.17	0.68	0.42	0.24	0.16
10.0	178.252	52.446	18.539	5.279	2.005
	1.30	0.75	0.47	0.27	0.17
11.0	210.392	61.725	21.769	6.183	2.344
	1.42	0.83	0.52	0.30	0.19
12.0	244.889	71.657	25.218	7.146	2.705
	1.55	0.90	0.57	0.32	0.21
13.0	281.715	82.232	28.883	8.168	3.087
	1.68	0.98	0.61	0.35	0.23
14.0	320.845	93.443	32.761	9.246	3.490
	1.81	1.05	0.66	0.38	0.24
15.0	362.256	105.282	36.849	10.380	3.913
	1.94	1.13	0.71	0.40	0.26
16.0	405.928	117.742	41.144	11.569	4.357
	2.07	1.20	0.76	0.43	0.28
17.0	451.842	130.817	45.645	12.813	4.820
	2.20	1.28	0.80	0.46	0.30
18.0	499.982	144.503	50.348	14.111	5.302
	2.33	1.35	0.85	0.48	0.31
19.0	550.333	158.793	55.252	15.462	5.804
	2.46	1.43	0.90	0.51	0.33
20.0	602.880	173.684	60.356	16.866	6.325
	2.59	1.50	0.94	0.54	0.35
21.0	657.611	189.171	65.657	18.323	6.865
	2.72	1.58	0.99	0.56	0.37
22.0	714.514	205.249	71.155	19.831	7.423
	2.85	1.65	1.04	0.59	0.38
23.0	773.577	221.917	76.847	21.390	8.000
	2.98	1.73	1.09	0.62	0.40
24.0	834.790	239.169	82.732	23.001	8.595
	3.11	1.80	1.13	0.64	0.42
25.0	898.143	257.004	88.810	24.662	9.208
	3.24	1.88	1.18	0.67	0.44
26.0	963.627	275.417	95.079	26.373	9.840
	3.37	1.95	1.23	0.70	0.45
27.0	1031.234	294.406	101.538	28.134	10.489
	3.50	2.03	1.27	0.73	0.47
28.0	1100.954	313.968	108.186	29.945	11.156
	3.63	2.11	1.32	0.75	0.49
29.0	1172.781	334.101	115.022	31.805	11.841
	3.76	2.18	1.37	0.78	0.51
30.0	1246.707	354.802	122.045	33.714	12.543
	3.89	2.26	1.42	0.81	0.52
31.0	1322.725	376.070	129.254	35.672	13.263
	4.02	2.33	1.46	0.83	0.54
32.0	1400.829	397.901	136.649	37.678	14.000
	4.14	2.41	1.51	0.86	0.56
33.0	1481.012	420.295	144.228	39.733	14.754
	4.27	2.48	1.56	0.89	0.57
34.0	1563.268	443.248	151.991	41.836	15.525
	4.40	2.56	1.61	0.91	0.59
35.0	1647.591	466.759	159.937	43.986	16.314
	4.53	2.63	1.65	0.94	0.61
36.0	1733.977	490.826	168.066	46.184	17.119
	4.66	2.71	1.70	0.97	0.63
37.0	1822.418	515.448	176.376	48.430	17.942
	4.79	2.78	1.75	0.99	0.64

流量 [L/min]	動水勾配 [%]		
	流速 [m/s]		
	φ20 (21.2)	φ25 (28.1)	φ30 (34.9)
38.0	184.868	50.722	18.781
	1.79	1.02	0.66
39.0	193.540	53.062	19.637
	1.84	1.05	0.68
40.0	202.392	55.448	20.510
	1.89	1.07	0.70
41.0	211.423	57.881	21.399
	1.94	1.10	0.71
42.0	220.633	60.361	22.305
	1.98	1.13	0.73
43.0	230.022	62.887	23.227
	2.03	1.16	0.75
44.0	239.588	65.459	24.165
	2.08	1.18	0.77
45.0	249.331	68.077	25.120
	2.12	1.21	0.78
46.0	259.252	70.741	26.092
	2.17	1.24	0.80
47.0	269.349	73.451	27.079
	2.22	1.26	0.82
48.0	279.621	76.206	28.083
	2.27	1.29	0.84
49.0	290.070	79.006	29.103
	2.31	1.32	0.85
50.0	300.693	81.853	30.139
	2.36	1.34	0.87
51.0	311.491	84.744	31.191
	2.41	1.37	0.89
52.0	322.464	87.680	32.259
	2.46	1.40	0.91
53.0	333.610	90.661	33.342
	2.50	1.42	0.92
54.0	344.930	93.688	34.442
	2.55	1.45	0.94
55.0	356.423	96.759	35.558
	2.60	1.48	0.96
56.0	368.089	99.874	36.689
	2.64	1.50	0.98
57.0	379.928	103.034	37.836
	2.69	1.53	0.99
58.0	391.939	106.239	38.999
	2.74	1.56	1.01
59.0	404.121	109.488	40.178
	2.79	1.59	1.03
60.0	416.475	112.781	41.372
	2.83	1.61	1.05
61.0	429.001	116.118	42.582
	2.88	1.64	1.06
62.0	441.697	119.499	43.807
	2.93	1.67	1.08
63.0	454.565	122.925	45.048
	2.97	1.69	1.10
64.0	467.602	126.394	46.305
	3.02	1.72	1.12
65.0	480.810	129.907	47.577
	3.07	1.75	1.13
66.0	494.187	133.464	48.864
	3.12	1.77	1.15
67.0	507.734	137.064	50.167
	3.16	1.80	1.17

付表-6 戸数別流量と動水勾配早見表 (VLP:水道用硬質塩化ビニルライニング鋼管)

戸数	動水勾配 [%]				
	流速 [m/s]				
流量	20A	25A	32A	40A	50A
[L/min]	(18.6)	(24.6)	(32.7)	(38.6)	(49.9)
0.5	268.680	74.533	20.287	9.491	2.902
33.4	2.05	1.17	0.66	0.48	0.28
1.0	403.697	111.235	30.085	14.028	4.271
42.0	2.58	1.47	0.83	0.60	0.36
1.5	512.574	140.684	37.909	17.641	5.357
48.0	2.94	1.68	0.95	0.68	0.41
2.0	608.222	166.475	44.740	20.791	6.302
52.8	3.24	1.85	1.05	0.75	0.45
2.5	693.673	189.463	50.815	23.589	7.139
56.8	3.48	1.99	1.13	0.81	0.48
3.0	775.010	211.305	56.576	26.239	7.932
60.4	3.70	2.12	1.20	0.86	0.51
3.5	848.393	230.982	61.759	28.622	8.644
63.5	3.89	2.23	1.26	0.90	0.54
4.0	919.830	250.113	66.792	30.933	9.334
66.4	4.07	2.33	1.32	0.95	0.57
4.5	986.158	267.857	71.454	33.074	9.972
69.0	4.23	2.42	1.37	0.98	0.59
5.0	1049.291	284.729	75.883	35.106	10.577
71.4	4.38	2.50	1.42	1.02	0.61
5.5	1111.507	301.343	80.241	37.105	11.173
73.7	4.52	2.58	1.46	1.05	0.63
6.0	1172.583	317.638	84.511	39.063	11.755
75.9	4.66	2.66	1.51	1.08	0.65
6.5	1229.429	332.795	88.481	40.882	12.296
77.9	4.78	2.73	1.55	1.11	0.66
7.0	1284.599	347.495	92.328	42.644	12.820
79.8	4.89	2.80	1.58	1.14	0.68
7.5	1340.902	362.488	96.249	44.440	13.354
81.7	5.01	2.86	1.62	1.16	0.70
8.0	1392.237	376.150	99.821	46.075	13.839
83.4	5.12	2.92	1.66	1.19	0.71
8.5	1444.475	390.045	103.451	47.736	14.333
85.1	5.22	2.98	1.69	1.21	0.73
9.0	1494.464	403.336	106.922	49.324	14.804
86.7	5.32	3.04	1.72	1.23	0.74
9.5	1545.252	416.833	110.445	50.936	15.282
88.3	5.42	3.10	1.75	1.26	0.75
10.0	1564.502	421.947	111.779	51.546	15.463
88.9	5.45	3.12	1.76	1.27	0.76
10.5	1659.125	447.073	118.332	54.542	16.351
91.8	5.63	3.22	1.82	1.31	0.78
11.0	1756.356	472.871	125.055	57.614	17.262
94.7	5.81	3.32	1.88	1.35	0.81
11.5	1856.190	499.339	131.947	60.763	18.194
97.6	5.99	3.42	1.94	1.39	0.83
12.0	1955.044	525.529	138.762	63.874	19.115
100.4	6.16	3.52	1.99	1.43	0.86
12.5	2056.313	552.340	145.733	67.056	20.057
103.2	6.33	3.62	2.05	1.47	0.88
13.0	2156.248	578.781	152.604	70.191	20.983
105.9	6.50	3.71	2.10	1.51	0.90
13.5	2262.246	606.809	159.882	73.511	21.964
108.7	6.67	3.81	2.16	1.55	0.93

戸数	動水勾配 [%]		
	流速 [m/s]		
流量	32A	40A	50A
[L/min]	(32.7)	(38.6)	(49.9)
14.0	166.779	76.655	22.893
111.3	2.21	1.59	0.95
14.5	174.083	79.985	23.876
114.0	2.26	1.62	0.97
15.0	181.253	83.252	24.840
116.6	2.31	1.66	0.99
15.5	188.555	86.578	25.822
119.2	2.37	1.70	1.02
16.0	195.991	89.964	26.820
121.8	2.42	1.73	1.04
16.5	203.265	93.275	27.796
124.3	2.47	1.77	1.06
17.0	210.661	96.642	28.788
126.8	2.52	1.81	1.08
17.5	218.179	100.062	29.795
129.3	2.57	1.84	1.10
18.0	225.819	103.538	30.819
131.8	2.62	1.88	1.12
18.5	233.268	106.925	31.816
134.2	2.66	1.91	1.14
19.0	240.828	110.362	32.827
136.6	2.71	1.95	1.16
19.5	248.500	113.850	33.853
139.0	2.76	1.98	1.18
20.0	256.283	117.387	34.893
141.4	2.81	2.01	1.21
20.5	264.177	120.973	35.947
143.8	2.85	2.05	1.23
21.0	271.847	124.457	36.971
146.1	2.90	2.08	1.25
21.5	279.618	127.986	38.007
148.4	2.95	2.11	1.26
22.0	287.490	131.561	39.057
150.7	2.99	2.15	1.28
22.5	295.464	135.181	40.120
153.0	3.04	2.18	1.30
23.0	303.540	138.846	41.196
155.3	3.08	2.21	1.32
23.5	311.359	142.394	42.237
157.5	3.13	2.24	1.34
24.0	319.632	146.148	43.338
159.8	3.17	2.28	1.36
24.5	327.640	149.780	44.403
162.0	3.21	2.31	1.38
25.0	335.740	153.454	45.480
164.2	3.26	2.34	1.40
25.5	343.932	157.169	46.569
166.4	3.30	2.37	1.42
26.0	352.216	160.924	47.670
168.6	3.35	2.40	1.44
26.5	360.209	164.548	48.732
170.7	3.39	2.43	1.45
27.0	368.672	168.384	49.855
172.9	3.43	2.46	1.47

寸表-6 戸数別流量と動水勾配早見表 (VLP: 水道用硬質塩化ビニルライニング鋼管) (続き)

戸数	動水勾配 [%]		
	流速 [m/s]		
流量	32A	40A	50A
[L/min]	(32.7)	(38.6)	(49.9)
27.5	376.836	172.083	50.939
175.0	3.47	2.49	1.49
28.0	385.478	175.999	52.085
177.2	3.52	2.52	1.51
28.5	393.813	179.775	53.191
179.3	3.56	2.55	1.53
29.0	402.231	183.588	54.307
181.4	3.60	2.58	1.55
29.5	410.732	187.438	55.433
183.5	3.64	2.61	1.56
30.0	418.905	191.139	56.516
185.5	3.68	2.64	1.58
30.5	427.568	195.061	57.663
187.6	3.72	2.67	1.60
31.0	436.314	199.020	58.821
189.7	3.76	2.70	1.62
31.5	444.721	202.825	59.933
191.7	3.80	2.73	1.63
32.0	453.202	206.664	61.056
193.7	3.84	2.76	1.65
32.5	462.188	210.730	62.244
195.8	3.89	2.79	1.67
33.0	470.823	214.637	63.386
197.8	3.93	2.82	1.69
33.5	479.533	218.577	64.537
199.8	3.97	2.85	1.70
34.0	488.317	222.551	65.698
201.8	4.00	2.87	1.72
34.5	496.732	226.356	66.809
203.7	4.04	2.90	1.74
35.0	505.662	230.395	67.988
205.7	4.08	2.93	1.75
35.5	514.667	234.467	69.177
207.7	4.12	2.96	1.77
36.0	523.290	238.365	70.315
209.6	4.16	2.99	1.79
36.5	532.440	242.502	71.523
211.6	4.20	3.01	1.80
37.0	541.201	246.462	72.678
213.5	4.24	3.04	1.82
37.5	550.496	250.663	73.904
215.5	4.28	3.07	1.84
38.0	559.395	254.685	75.077
217.4	4.31	3.10	1.85
38.5	568.361	258.736	76.259
219.3	4.35	3.12	1.87
39.0	577.394	262.817	77.449
221.2	4.39	3.15	1.89
39.5	586.494	266.928	78.648
223.1	4.43	3.18	1.90
40.0	595.661	271.069	79.855
225.0	4.47	3.20	1.92
40.5	604.894	275.240	81.071
226.9	4.50	3.23	1.93

戸数	動水勾配 [%]		
	流速 [m/s]		
流量	32A	40A	50A
[L/min]	(32.7)	(38.6)	(49.9)
41.0	613.703	279.218	82.231
228.7	4.54	3.26	1.95
41.5	623.067	283.446	83.463
230.6	4.58	3.28	1.97
42.0	632.497	287.704	84.704
232.5	4.61	3.31	1.98
42.5	641.492	291.766	85.887
234.3	4.65	3.34	2.00
43.0	650.547	295.854	87.078
236.1	4.69	3.36	2.01
43.5	660.169	300.197	88.343
238.0	4.72	3.39	2.03
44.0	669.347	304.340	89.549
239.8	4.76	3.42	2.04
44.5	678.584	308.509	90.763
241.6	4.79	3.44	2.06
45.0	687.881	312.705	91.985
243.4	4.83	3.47	2.07
45.5	697.759	317.162	93.282
245.3	4.87	3.49	2.09
46.0	707.179	321.412	94.520
247.1	4.90	3.52	2.11
46.5	716.657	325.689	95.764
248.9	4.94	3.54	2.12
47.0	725.664	329.752	96.947
250.6	4.97	3.57	2.14
47.5	735.259	334.080	98.206
252.4	5.01	3.59	2.15
48.0	744.912	338.434	99.473
254.2	5.04	3.62	2.17
48.5	754.626	342.815	100.747
256.0	5.08	3.65	2.18
49.0	763.854	346.977	101.958
257.7	5.11	3.67	2.20
49.5	773.682	351.409	103.247
259.5	5.15	3.70	2.21
50.0	783.570	355.867	104.543
261.3	5.19	3.72	2.23
50.5	792.963	360.102	105.775
263.0	5.22	3.75	2.24
51.0	802.409	364.360	107.013
264.7	5.25	3.77	2.26
51.5	812.468	368.895	108.331
266.5	5.29	3.80	2.27
52.0	822.022	373.202	109.583
268.2	5.32	3.82	2.29
52.5	831.629	377.532	110.841
269.9	5.36	3.84	2.30
53.0	841.859	382.142	112.181
271.7	5.39	3.87	2.32
53.5	851.574	386.521	113.453
273.4	5.43	3.89	2.33
54.0	861.343	390.923	114.732
275.1	5.46	3.92	2.34

付表-7 戸数別流量と動水勾配早見表 (VP:水道用硬質ポリ塩化ビニル管)

戸数	動水勾配 [%]				
	流速 [m/s]				
流量 [L/min]	φ20 (20)	φ25 (25)	φ30 (31)	φ40 (40)	φ50 (51)
0.5	192.475	69.231	25.896	8.058	2.622
33.4	1.77	1.13	0.74	0.44	0.27
1.0	288.684	103.283	38.447	11.903	3.857
42.0	2.23	1.43	0.93	0.56	0.34
1.5	366.166	130.599	48.477	14.963	4.838
48.0	2.55	1.63	1.06	0.64	0.39
2.0	434.179	154.517	57.240	17.630	5.690
52.8	2.80	1.79	1.17	0.70	0.43
2.5	494.905	175.833	65.035	19.998	6.446
56.8	3.01	1.93	1.25	0.75	0.46
3.0	552.680	196.084	72.432	22.241	7.161
60.4	3.20	2.05	1.33	0.80	0.49
3.5	604.786	214.326	79.087	24.257	7.802
63.5	3.37	2.16	1.40	0.84	0.52
4.0	655.493	232.061	85.550	26.212	8.425
66.4	3.52	2.25	1.47	0.88	0.54
4.5	702.560	248.508	91.539	28.023	9.000
69.0	3.66	2.34	1.52	0.92	0.56
5.0	747.349	264.147	97.231	29.742	9.546
71.4	3.79	2.42	1.58	0.95	0.58
5.5	791.478	279.545	102.830	31.432	10.083
73.7	3.91	2.50	1.63	0.98	0.60
6.0	834.789	294.648	108.319	33.088	10.609
75.9	4.03	2.58	1.68	1.01	0.62
6.5	875.094	308.695	113.421	34.626	11.096
77.9	4.13	2.64	1.72	1.03	0.64
7.0	914.204	322.318	118.367	36.116	11.569
79.8	4.23	2.71	1.76	1.06	0.65
7.5	954.111	336.212	123.409	37.634	12.050
81.7	4.33	2.77	1.80	1.08	0.67
8.0	990.490	348.873	128.001	39.016	12.488
83.4	4.42	2.83	1.84	1.11	0.68
8.5	1027.506	361.749	132.670	40.421	12.932
85.1	4.51	2.89	1.88	1.13	0.69
9.0	1062.923	374.064	137.134	41.763	13.357
86.7	4.60	2.94	1.91	1.15	0.71
9.5	1098.902	386.570	141.665	43.125	13.788
88.3	4.68	3.00	1.95	1.17	0.72
10.0	1112.538	391.309	143.381	43.641	13.952
88.9	4.72	3.02	1.96	1.18	0.73
10.5	1179.556	414.589	151.811	46.173	14.752
91.8	4.87	3.12	2.03	1.22	0.75
11.0	1248.408	438.491	160.460	48.769	15.573
94.7	5.02	3.22	2.09	1.26	0.77
11.5	1319.089	463.013	169.329	51.429	16.413
97.6	5.18	3.31	2.16	1.29	0.80
12.0	1389.064	487.276	178.099	54.059	17.244
100.4	5.33	3.41	2.22	1.33	0.82
12.5	1460.736	512.114	187.072	56.747	18.092
103.2	5.47	3.50	2.28	1.37	0.84
13.0	1531.452	536.608	195.916	59.395	18.927
105.9	5.62	3.60	2.34	1.40	0.86
13.5	1606.446	562.571	205.286	62.199	19.811
108.7	5.77	3.69	2.40	1.44	0.89

戸数	動水勾配 [%]		
	流速 [m/s]		
流量 [L/min]	φ30 (31)	φ40 (40)	φ50 (51)
14.0	214.167	64.856	20.649
111.3	2.46	1.48	0.91
14.5	223.573	67.668	21.534
114.0	2.52	1.51	0.93
15.0	232.807	70.427	22.403
116.6	2.57	1.55	0.95
15.5	242.212	73.236	23.287
119.2	2.63	1.58	0.97
16.0	251.790	76.095	24.187
121.8	2.69	1.62	0.99
16.5	261.161	78.891	25.067
124.3	2.74	1.65	1.01
17.0	270.690	81.734	25.960
126.8	2.80	1.68	1.03
17.5	280.377	84.622	26.868
129.3	2.86	1.71	1.05
18.0	290.221	87.556	27.790
131.8	2.91	1.75	1.08
18.5	299.820	90.416	28.688
134.2	2.96	1.78	1.09
19.0	309.564	93.317	29.599
136.6	3.02	1.81	1.11
19.5	319.452	96.261	30.523
139.0	3.07	1.84	1.13
20.0	329.484	99.247	31.460
141.4	3.12	1.88	1.15
20.5	339.660	102.274	32.410
143.8	3.18	1.91	1.17
21.0	349.547	105.214	33.332
146.1	3.23	1.94	1.19
21.5	359.566	108.193	34.266
148.4	3.28	1.97	1.21
22.0	369.717	111.210	35.212
150.7	3.33	2.00	1.23
22.5	379.999	114.265	36.169
153.0	3.38	2.03	1.25
23.0	390.413	117.358	37.138
155.3	3.43	2.06	1.27
23.5	400.496	120.352	38.076
157.5	3.48	2.09	1.28
24.0	411.166	123.519	39.068
159.8	3.53	2.12	1.30
24.5	421.494	126.584	40.027
162.0	3.58	2.15	1.32
25.0	431.941	129.684	40.998
164.2	3.63	2.18	1.34
25.5	442.508	132.818	41.978
166.4	3.67	2.21	1.36
26.0	453.194	135.987	42.970
168.6	3.72	2.24	1.38
26.5	463.506	139.044	43.926
170.7	3.77	2.26	1.39
27.0	474.424	142.280	44.938
172.9	3.82	2.29	1.41

付表-7 戸数別流量と動水勾配早見表 (VP : 水道用硬質ポリ塩化ビニル管) (続き)

戸数	動水勾配 [%]		
	流速 [m/s]		
流量 [L/min]	φ30 (31)	φ40 (40)	φ50 (51)
27.5	484.958	145.401	45.914
175.0	3.86	2.32	1.43
28.0	496.108	148.704	46.946
177.2	3.91	2.35	1.45
28.5	506.863	151.889	47.942
179.3	3.96	2.38	1.46
29.0	517.725	155.105	48.947
181.4	4.01	2.41	1.48
29.5	528.695	158.353	49.961
183.5	4.05	2.43	1.50
30.0	539.243	161.474	50.936
185.5	4.10	2.46	1.51
30.5	550.423	164.783	51.969
187.6	4.14	2.49	1.53
31.0	561.711	168.122	53.012
189.7	4.19	2.52	1.55
31.5	572.561	171.331	54.014
191.7	4.23	2.54	1.56
32.0	583.508	174.568	55.024
193.7	4.28	2.57	1.58
32.5	595.108	177.998	56.095
195.8	4.32	2.60	1.60
33.0	606.254	181.292	57.123
197.8	4.37	2.62	1.61
33.5	617.498	184.615	58.159
199.8	4.41	2.65	1.63
34.0	628.838	187.966	59.204
201.8	4.46	2.68	1.65
34.5	639.701	191.175	60.205
203.7	4.50	2.70	1.66
35.0	651.231	194.581	61.267
205.7	4.54	2.73	1.68
35.5	662.857	198.014	62.338
207.7	4.59	2.75	1.69
36.0	673.991	201.301	63.362
209.6	4.63	2.78	1.71
36.5	685.806	204.789	64.449
211.6	4.67	2.81	1.73
37.0	697.119	208.128	65.490
213.5	4.71	2.83	1.74
37.5	709.122	211.670	66.594
215.5	4.76	2.86	1.76
38.0	720.613	215.061	67.650
217.4	4.80	2.88	1.77
38.5	732.192	218.477	68.714
219.3	4.84	2.91	1.79
39.0	743.857	221.918	69.785
221.2	4.88	2.93	1.80
39.5	755.610	225.383	70.865
223.1	4.93	2.96	1.82
40.0	767.449	228.874	71.952
225.0	4.97	2.98	1.84
40.5	779.375	232.390	73.046
226.9	5.01	3.01	1.85

戸数	動水勾配 [%]		
	流速 [m/s]		
流量 [L/min]	φ30 (31)	φ40 (40)	φ50 (51)
41.0	790.753	235.744	74.090
228.7	5.05	3.03	1.87
41.5	802.847	239.308	75.200
230.6	5.09	3.06	1.88
42.0	815.028	242.898	76.317
232.5	5.13	3.08	1.90
42.5	826.647	246.321	77.382
234.3	5.17	3.11	1.91
43.0	838.344	249.767	78.454
236.1	5.21	3.13	1.93
43.5	850.775	253.429	79.593
238.0	5.26	3.16	1.94
44.0	862.631	256.920	80.679
239.8	5.30	3.18	1.96
44.5	874.565	260.434	81.772
241.6	5.33	3.20	1.97
45.0	886.576	263.971	82.871
243.4	5.37	3.23	1.99
45.5	899.338	267.728	84.040
245.3	5.42	3.25	2.00
46.0	911.508	271.310	85.153
247.1	5.46	3.28	2.02
46.5	923.756	274.914	86.274
248.9	5.50	3.30	2.03
47.0	935.393	278.339	87.338
250.6	5.53	3.32	2.04
47.5	947.790	281.986	88.472
252.4	5.57	3.35	2.06
48.0	960.265	285.656	89.612
254.2	5.61	3.37	2.07
48.5	972.816	289.348	90.759
256.0	5.65	3.40	2.09
49.0	984.741	292.855	91.849
257.7	5.69	3.42	2.10
49.5	997.442	296.590	93.009
259.5	5.73	3.44	2.12
50.0	1010.220	300.348	94.176
261.3	5.77	3.47	2.13
50.5	1022.359	303.916	95.285
263.0	5.81	3.49	2.15
51.0	1034.566	307.505	96.399
264.7	5.85	3.51	2.16
51.5	1047.566	311.326	97.586
266.5	5.88	3.53	2.17
52.0	1059.915	314.955	98.713
268.2	5.92	3.56	2.19
52.5	1072.332	318.604	99.845
269.9	5.96	3.58	2.20
53.0	1085.554	322.489	101.051
271.7	6.00	3.60	2.22
53.5	1098.111	326.179	102.196
273.4	6.04	3.63	2.23
54.0	1110.737	329.888	103.348
275.1	6.07	3.65	2.24

付表-8 メーター・弁栓類の損失水頭表

(単位：m)

口径 [mm]	流量 [L/min]	サドル 分水栓	ボール 止水栓	メーター	メーター バイパス ユニット	メーター ユニット	ボール式 逆止弁	スリース弁 (仕切弁)	給水栓
13	8	0.63	0.04	0.23				0.13	0.34
	12	1.41	0.08	0.52				0.28	0.68
	13	1.65	0.09	0.60				0.33	0.79
	17	2.82	0.19	1.04				0.57	1.26
	20	3.91	0.23	1.44				0.79	1.68
	21	4.31	0.24	1.58				0.85	1.84
	24	5.63	0.34	2.07				1.14	2.33
	25	6.10	0.34	2.23				1.21	2.50
	28	7.66	0.46	2.81				1.55	3.08
	29	8.22	0.49	3.02				1.66	3.27
	32	9.98	0.56	3.65				1.98	
	33	10.61	0.59	3.88				2.10	
	34	11.29	0.68	4.15				2.28	
	37	13.33	0.74	4.88				2.64	
20	8	0.09	0.01	0.05		0.68	0.18	0.02	0.14
	12	0.20	0.02	0.11		0.86	0.39	0.04	0.26
	13	0.23	0.02	0.13		0.89	0.47	0.05	0.30
	17	0.40	0.03	0.22		1.10	0.78	0.08	0.47
	20	0.55	0.04	0.30		1.20	1.10	0.12	0.63
	21	0.61	0.05	0.33		1.26	1.20	0.13	0.67
	24	0.80	0.06	0.43		1.45	1.50	0.17	0.86
	25	0.86	0.07	0.47		1.46	1.68	0.18	0.90
	28	1.09	0.08	0.59		1.65	2.10	0.23	1.13
	29	1.17	0.09	0.63		1.70	2.20	0.25	1.20
	32	1.41	0.11	0.77		1.84	2.72	0.30	1.39
	33	1.50	0.12	0.82		1.89	2.89	0.32	1.46
	34	1.60	0.12	0.87		2.00	3.00	0.34	1.59
	37	1.90	0.14	1.03		2.15	3.60	0.40	1.85
	41	2.33	0.18	1.26		2.40	4.40	0.49	2.22
	42	2.44	0.18	1.32		2.50	4.60	0.51	2.31
	44	2.68	0.20	1.45		2.60	5.00	0.57	
45	2.78	0.20	1.51		2.61	5.29	0.59		
46	2.93	0.22	1.59		2.75	5.40	0.62		
48	3.19	0.24	1.73		2.90	5.90	0.67		
50	3.46	0.26	1.87		3.00	6.50	0.73		
25	8	0.04	0.01	0.04		0.61	0.06	0.01	0.05
	12	0.08	0.01	0.08		0.72	0.12	0.01	0.10
	13	0.10	0.01	0.09		0.74	0.15	0.01	0.11
	17	0.16	0.01	0.16		0.85	0.25	0.02	0.18
	20	0.22	0.02	0.22		0.93	0.35	0.02	0.23
	21	0.26	0.02	0.22		0.95	0.39	0.03	0.24
	24	0.32	0.02	0.31		1.05	0.49	0.03	0.31
	25	0.37	0.03	0.31		1.05	0.55	0.04	0.32
	28	0.44	0.03	0.43		1.10	0.66	0.05	0.41
	29	0.47	0.04	0.46		1.15	0.70	0.05	0.43
	32	0.61	0.05	0.51		1.24	0.89	0.06	0.48
	33	0.63	0.05	0.54		1.26	0.94	0.06	0.50
	34	0.64	0.05	0.63		1.30	0.95	0.07	0.57
	37	0.76	0.06	0.75		1.35	1.10	0.08	0.66
41	0.93	0.07	0.92		1.45	1.40	0.10	0.79	
42	0.98	0.07	0.96		1.50	1.45	0.10	0.82	

付表-8 メーター・弁栓類の損失水頭表 (続き)

(単位: m)

口径 [mm]	流量 [L/min]	サドル 分水栓	ボール 止水栓	メーター	メーター バイパス ユニット	メーター ユニット	ボール式 逆止弁	スリース弁 (仕切弁)	給水栓
25	44	1.08	0.08	1.06		1.55	1.60	0.11	0.90
	45	1.13	0.09	1.01		1.57	1.65	0.11	0.94
	46	1.18	0.09	1.16		1.60	1.70	0.12	0.97
	48	1.28	0.10	1.26		1.65	1.90	0.14	1.05
	50	1.39	0.10	1.37		1.70	2.05	0.15	1.12
	52	1.50	0.11	1.48		1.75	2.20	0.16	1.20
	54	1.62	0.12	1.59		1.80	2.40	0.17	1.29
	56	1.74	0.13	1.71		1.85	2.50	0.18	1.37
	58	1.87	0.14	1.84		1.90	2.70	0.20	1.46
	60	2.00	0.15	1.97		1.95	2.90	0.21	1.55
	62	2.14	0.16	2.10		2.00	3.10	0.23	1.64
	64	2.28	0.17	2.24		2.05	3.30	0.24	1.74
	66	2.42	0.18	2.38		2.10	3.50	0.26	1.84
	68	2.57	0.19	2.53		2.15	3.70	0.27	1.94
30	24	0.12	0.01	0.13			0.17	0.01	
	25	0.12	0.01	0.13			0.19	0.01	
	28	0.16	0.02	0.17			0.22	0.01	
	29	0.17	0.02	0.18			0.24	0.01	
	32	0.20	0.02	0.21			0.29	0.01	
	33	0.21	0.02	0.22			0.30	0.01	
	34	0.24	0.02	0.25			0.31	0.01	
	37	0.28	0.03	0.30			0.36	0.02	
	41	0.35	0.04	0.37			0.43	0.02	
	42	0.37	0.04	0.38			0.45	0.02	
	44	0.40	0.04	0.42			0.49	0.02	
	45	0.40	0.04	0.44			0.51	0.02	
	46	0.44	0.04	0.46			0.52	0.02	
	48	0.48	0.05	0.50			0.57	0.03	
	50	0.52	0.05	0.54			0.61	0.03	
	52	0.56	0.06	0.59			0.65	0.03	
	54	0.61	0.06	0.63			0.70	0.03	
	56	0.65	0.07	0.68			0.74	0.04	
	58	0.70	0.07	0.73			0.79	0.04	
	60	0.75	0.08	0.78			0.85	0.04	
	62	0.80	0.08	0.84			0.90	0.04	
	64	0.85	0.09	0.89			0.95	0.05	
	66	0.91	0.09	0.95			1.00	0.05	
	68	0.96	0.10	1.01			1.07	0.05	
	70	1.02	0.10	1.07			1.14	0.06	
	72	1.08	0.11	1.13			1.20	0.06	
74	1.14	0.11	1.19			1.26	0.06		
76	1.20	0.12	1.26			1.32	0.07		
78	1.26	0.13	1.32			1.38	0.07		
80	1.33	0.13	1.39			1.44	0.07		
82	1.40	0.14	1.46			1.49	0.08		
84	1.47	0.15	1.53			1.57	0.08		
86	1.54	0.15	1.61			1.65	0.08		
88	1.61	0.16	1.68			1.72	0.09		
90	1.68	0.17	1.76			1.80	0.09		
92	1.76	0.18	1.84			1.87	0.10		
94	1.84	0.18	1.92			1.94	0.10		

付表-8 メーター・弁栓類の損失水頭表 (続き)

(単位: m)

口径 [mm]	流量 [L/min]	サドル 分水栓	ボール 止水栓	メーター	メーター バイパス ユニット	メーター ユニット	ボール式 逆止弁	スリース弁 (仕切弁)	給水栓
30	96	1.92	0.19	2.00			2.01	0.10	
	98	2.00	0.20	2.09			2.10	0.11	
	100	2.08	0.21	2.17			2.19	0.11	
40	34	0.08	0.01				0.11	0.01	
	37	0.09	0.01				0.14	0.01	
	41	0.11	0.01				0.17	0.01	
	42	0.12	0.01				0.18	0.01	
	44	0.13	0.01				0.20	0.01	
	45	0.14	0.01				0.21	0.01	
	46	0.14	0.01				0.22	0.01	
	48	0.15	0.02				0.23	0.02	
	50	0.17	0.02				0.25	0.02	
	52	0.18	0.02				0.27	0.02	
	54	0.20	0.02				0.29	0.02	
	56	0.21	0.02				0.31	0.02	
	58	0.22	0.02				0.33	0.02	
	60	0.24	0.02				0.35	0.02	
	62	0.26	0.03				0.37	0.03	
	64	0.27	0.03				0.39	0.03	
	66	0.29	0.03				0.42	0.03	
	68	0.31	0.03				0.44	0.03	
	70	0.33	0.03				0.46	0.03	
	72	0.35	0.04				0.48	0.04	
	74	0.37	0.04				0.51	0.04	
	76	0.39	0.04				0.53	0.04	
	78	0.41	0.04				0.55	0.04	
	80	0.43	0.04	0.35	0.09		0.58	0.04	
	82	0.45	0.05	0.37	0.09		0.60	0.05	
	84	0.47	0.05	0.38	0.10		0.63	0.05	
	86	0.49	0.05	0.40	0.11		0.65	0.05	
88	0.52	0.05	0.42	0.11		0.68	0.05		
90	0.54	0.05	0.44	0.12		0.71	0.05		
92	0.56	0.06	0.46	0.12		0.73	0.06		
94	0.59	0.06	0.48	0.12		0.76	0.06		
96	0.61	0.06	0.50	0.13		0.79	0.06		
98	0.64	0.06	0.52	0.13		0.81	0.06		
100	0.67	0.07	0.54	0.14		0.84	0.07		
105	0.74	0.07	0.60	0.15		0.92	0.07		
110	0.81	0.08	0.66	0.17		0.99	0.08		
115	0.88	0.09	0.72	0.18		1.07	0.09		
120	0.96	0.10	0.78	0.20		1.15	0.10		
125	1.04	0.10	0.85	0.21		1.24	0.10		
130	1.13	0.11	0.92	0.23		1.32	0.11		
135	1.22	0.12	0.99	0.24		1.41	0.12		
140	1.31	0.13	1.07	0.26		1.51	0.13		
145	1.40	0.14	1.14	0.28		1.60	0.14		
150	1.50	0.15	1.22	0.30		1.70	0.15		
50	60	0.09	0.01				0.22	0.01	
	62	0.10	0.01				0.23	0.01	
	64	0.11	0.01				0.24	0.01	
	66	0.11	0.01				0.25	0.01	

付表-8 メーター・弁栓類の損失水頭表 (続き)

(単位: m)

口径 [mm]	流量 [L/min]	サドル 分水栓	ボール 止水栓	メーター	メーター バイパス ユニット	メーター ユニット	ボール式 逆止弁	スリース弁 (仕切弁)	給水栓
50	68	0.12	0.01				0.26	0.01	
	70	0.13	0.01				0.27	0.01	
	72	0.14	0.01				0.28	0.01	
	74	0.14	0.01				0.29	0.01	
	76	0.15	0.02				0.30	0.01	
	78	0.16	0.02				0.31	0.01	
	80	0.17	0.02				0.32	0.01	
	82	0.18	0.02				0.33	0.01	
	84	0.18	0.02				0.35	0.01	
	86	0.19	0.02				0.36	0.01	
	88	0.20	0.02				0.37	0.01	
	90	0.21	0.02				0.38	0.01	
	92	0.22	0.02				0.39	0.01	
	94	0.23	0.02				0.41	0.01	
	96	0.24	0.02				0.42	0.01	
	98	0.25	0.03				0.43	0.02	
	100	0.26	0.03				0.45	0.02	
	105	0.29	0.03				0.48	0.02	
	110	0.32	0.03				0.52	0.02	
	115	0.34	0.03				0.56	0.02	
	120	0.38	0.04				0.60	0.02	
	125	0.41	0.04	0.34	0.09		0.64	0.02	
	130	0.44	0.04	0.36	0.10		0.68	0.03	
	135	0.47	0.05	0.39	0.11		0.72	0.03	
	140	0.51	0.05	0.42	0.12		0.77	0.03	
	145	0.55	0.06	0.45	0.13		0.82	0.03	
	150	0.59	0.06	0.48	0.13		0.87	0.04	
	155	0.63	0.06	0.52	0.14		0.92	0.04	
	160	0.67	0.07	0.55	0.15		0.97	0.04	
	165	0.71	0.07	0.59	0.16		1.02	0.04	
	170	0.75	0.08	0.62	0.17		1.08	0.04	
	175	0.80	0.08	0.66	0.18		1.14	0.05	
	180	0.84	0.08	0.70	0.19		1.19	0.05	
	185	0.89	0.09	0.74	0.20		1.25	0.05	
190	0.94	0.09	0.78	0.21		1.32	0.06		
195	0.99	0.10	0.82	0.22		1.38	0.06		
200	1.04	0.10	0.86	0.24		1.44	0.06		
210	1.15	0.12	0.95	0.26		1.58	0.07		
220	1.26	0.13	1.04	0.28		1.72	0.07		
230	1.38	0.14	1.14	0.31		1.87	0.08		
240	1.50	0.15	1.24	0.34		2.02	0.09		
250	1.63	0.16	1.35	0.37		2.19	0.10		
260	1.76	0.18	1.46	0.39		2.35	0.10		
270	1.90	0.19	1.57			2.53	0.11		
280	2.04	0.20	1.69			2.71	0.12		
290	2.19	0.22	1.81			2.90	0.13		
300	2.34	0.23	1.94			3.09	0.14		
310	2.50	0.25	2.07			3.29	0.15		
320	2.67	0.27	2.21			3.50	0.16		
330	2.84	0.28	2.35			3.71	0.17		
340	3.01	0.30	2.49			3.94	0.18		

付表-8 メーター・弁栓類の損失水頭表 (続き)

(単位 : m)

口径 [mm]	流量 [L/min]	サドル 分水栓	ボール 止水栓	メーター	メーター バイパス ユニット	メーター ユニット	ボール式 逆止弁	スリース弁 (仕切弁)	給水栓
50	350	3.19	0.32	2.64			4.16	0.19	
	360	3.38	0.34	2.79			4.40	0.20	
	370	3.57	0.36	2.95			4.64	0.21	
	380	3.76	0.38	3.11			4.89	0.22	
	390	3.96	0.40	3.28			5.15	0.23	
	400	4.17	0.42	3.45			5.41	0.25	
	410	4.38	0.44	3.62			5.68	0.26	
	420	4.59	0.46	3.80			5.95	0.27	
	430	4.82	0.48	3.98			6.24	0.28	
	440	5.04	0.50	4.17			6.53	0.30	
	450	5.27	0.53	4.36			6.83	0.31	
	460	5.51	0.55	4.56			7.13	0.33	
	470	5.75	0.58	4.76			7.44	0.34	
	480	6.00	0.60	4.96			7.76	0.35	
	490	6.25	0.63	5.17			8.09	0.37	
	500	6.51	0.65	5.38			8.42	0.39	
	520	7.04	0.70	5.82			9.11	0.42	
540	7.59	0.76	6.28			9.83	0.45		
560	8.17	0.82	6.75			10.58	0.48		
580	8.76	0.88	7.24			11.35	0.52		
600	9.38	0.94	7.75			12.16	0.55		
620	10.01	1.00	8.28			12.99	0.59		

付表-9 給水弁（ボールタップ）の動水頭と吐水量(m³/h)

動水頭(m) 口径(mm)		5.0	6.0	7.0	8.0	9.0	10.0	15.0	20.0	25.0	30.0
		ボ ー ル タ ッ プ	13	0.66	0.75	0.83	0.90	0.97	1.02	1.28	1.46
20	2.00		2.24	2.47	2.67	2.87	3.02	3.77	4.37	4.82	5.22
25	3.21		3.64	3.98	4.28	4.61	4.87	6.07	7.05	7.91	8.68
30	5.52		6.00	6.36	6.75	7.20	7.56	9.18	10.50		
40	9.24		9.90	10.80	11.40	12.00	12.30	14.64	16.50		
50	16.20		17.70	19.10	20.00	21.55	22.20	26.88	30.48		
75	37.20		39.90	42.90	45.00	47.70	49.20	58.80	66.00		
100	60.00		64.80	69.00	73.20	78.00	80.40	96.00	109.20		

付表-10 給水弁（定水位弁）の動水頭と吐水量(m³/h)

動水頭(m) 口径(mm)		5.0	6.0	7.0	8.0	9.0	10.0	15.0	20.0	25.0	30.0
		定 水 位 弁	25	5.20	5.69	6.15	6.57	6.97	7.35	9.00	10.39
30	7.64		8.37	9.04	9.67	10.25	10.81	13.24	15.28	17.09	18.72
40	11.43		12.52	13.53	14.46	15.34	16.17	19.81	22.87	25.57	28.01
50	20.79		22.78	24.60	26.30	27.89	29.40	36.01	41.58	46.49	50.93
75	42.19		46.22	49.92	53.37	56.61	59.67	73.08	84.38	94.35	103.35
100	67.27		73.69	79.59	85.09	90.25	95.13	116.51	134.53	150.41	164.77