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VALVES INSTRUMENTS PLUS

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Pipe Data Table

Nominal Size	Material	Wall Thickness	Max O/D	Min O/D	Mean I/D	Int Cross-section Area	Metal Cross-section Area	Surface Area / Metre Length	Moment of Inertia	Section Modulus	Pipe Weight	Water Content	Support Centres
		mm	mm	mm	mm	mm^2	mm^2	m^2	cm^4	cm^3	kg/m	l/m	m
15mm	Heavy Steel	3.25	21.7	21.1	14.9	175	186	0.067	0.79	0.736	1.45	0.175	2.0
	Medium Steel	2.65	21.7	21.1	16.2	205	155	0.067	0.71	0.656	1.22	0.205	2.0
1/2"	Copper (Table X)	0.70	15.045	14.965	13.6	145	31.6	0.047	0.08	0.108	0.28	0.145	1.4
	Copper (Table Y)	1.00	15.045	14.965	13.0	133	44.1	0.047	0.11	0.145	0.39	0.133	1.4
15mm	Copper (Table Z)	0.50	15.045	14.965	14.0	154	22.9	0.047	0.06	0.080	0.20	0.154	1.4
20mm	Heavy Steel	3.25	27.2	26.6	20.4	326	243	0.085	1.75	1.29	1.90	0.326	2.4
	Medium Steel	2.65	27.2	26.6	21.6	367	203	0.085	1.50	1.11	1.58	0.367	2.4
3/4"	Copper (Table X)	0.90	22.055	21.975	20.2	321	59.6	0.069	0.33	0.303	0.52	0.321	1.4
	Copper (Table Y)	1.20	22.055	21.975	19.6	302	78.3	0.069	0.43	0.387	0.69	0.302	1.4
22mm	Copper (Table Z)	0.60	22.055	21.975	20.8	340	40.2	0.069	0.23	0.210	0.35	0.340	1.4
25mm	Heavy Steel	4.05	34.2	33.4	25.7	518	380	0.106	4.29	2.54	2.97	0.518	2.7
	Medium Steel	3.25	34.2	33.4	27.3	586	312	0.106	3.70	2.20	2.44	0.586	2.7
1"	Copper (Table X)	0.90	28.055	27.975	26.2	540	76.7	0.085	0.71	0.504	0.68	0.540	1.7
	Copper (Table Y)	1.20	28.055	27.975	25.6	516	101	0.085	0.91	0.650	0.89	0.516	1.7
28mm	Copper (Table Z)	0.60	28.055	27.975	26.8	565	51.7	0.085	0.49	0.347	0.46	0.565	1.7
32mm	Heavy Steel	4.05	42.9	42.1	34.3	927	490	0.134	9.16	4.31	3.84	0.926	2.7
	Medium Steel	3.25	42.9	42.1	35.9	1016	406	0.134	7.74	3.64	3.14	1.016	2.7
1 1/4"	Copper (Table X)	1.20	35.07	34.99	32.6	837	128	0.110	1.83	1.043	1.12	0.837	1.7
	Copper (Table Y)	1.50	35.07	34.99	32.0	806	158	0.110	2.22	1.270	1.39	0.806	1.7
35mm	Copper (Table Z)	0.70	35.07	34.99	33.6	889	75.5	0.110	1.11	0.635	0.67	0.889	1.7
40mm	Heavy Steel	4.05	48.8	48.0	40.2	1272	566	0.152	13.98	5.79	4.43	1.271	3.0
	Medium Steel	3.25	48.8	48.0	41.9	1376	461	0.152	11.78	4.87	3.61	1.376	3.0
1 1/2"	Copper (Table X)	1.20	42.07	41.99	39.6	1234	154	0.132	3.21	1.528	1.36	1.234	2.0
	Copper (Table Y)	1.50	42.07	41.99	39.0	1197	191	0.132	3.93	1.869	1.69	1.197	2.0
42mm	Copper (Table Z)	0.80	42.07	41.99	40.4	1284	104	0.132	2.20	1.048	0.91	1.284	2.0
50mm	Heavy Steel	4.50	60.8	59.8	51.3	2070	784	0.189	30.8	10.2	6.17	2.070	3.4
	Medium Steel	3.65	60.8	59.8	53.0	2205	651	0.189	26.2	8.7	5.10	2.205	3.4
2"	Copper (Table X)	1.20	54.07	53.99	51.6	2095	199	0.170	7.0	2.573	1.76	2.095	2.0
	Copper (Table Y)	2.00	54.07	53.99	50.0	1965	327	0.170	11.1	4.101	2.88	1.965	2.0
54mm	Copper (Table Z)	0.90	54.07	53.99	52.2	2145	150	0.170	5.3	1.963	1.33	2.145	2.0
65mm	Heavy Steel	4.50	76.6	75.4	67.0	3530	1005	0.239	64.5	17.0	7.90	3.530	3.7
	Medium Steel	3.65	76.6	75.4	68.7	3700	831	0.239	54.5	14.3	6.51	3.700	3.7
2 1/2"	Copper (Table X)	1.20	66.75	66.60	64.3	3245	247	0.209	13.2	3.97	2.18	3.245	2.0
	Copper (Table Y)	2.00	66.75	66.60	63.1	3125	406	0.209	21.3	6.38	3.58	3.125	2.0
67mm	Copper (Table Z)	1.00	66.75	66.60	64.7	3285	206	0.209	11.1	3.34	1.82	3.285	2.0
80mm	Heavy Steel	4.85	89.5	88.1	79.0	4905	1285	0.279	114	25.6	10.1	4.905	3.7
	Medium Steel	4.05	89.5	88.1	80.7	5115	1080	0.279	97.0	21.8	8.47	5.115	3.7
3"	Copper (Table X)	1.50	76.3	76.15	73.2	4210	352	0.239	24.4	6.45	3.11	4.210	2.4
	Copper (Table Y)	2.00	76.3	76.15	72.2	4100	467	0.239	31.9	8.43	4.11	4.100	2.4
76mm	Copper (Table Z)	1.20	76.3	76.15	73.8	4280	283	0.239	19.9	5.22	2.50	4.280	2.4
100mm	Heavy Steel	5.40	114.9	113.3	103.3	8380	1840	0.358	272	47.7	14.4	8.380	4.1
	Medium Steel	4.50	114.9	113.3	105.1	8680	1540	0.358	231	40.6	12.1	8.680	4.1
4"	Copper (Table X)	1.50	108.25	108.0	105.1	8680	504	0.340	71.4	13.21	4.45	8.680	2.7
	Copper (Table Y)	2.00	108.25	108.0	103.1	8355	832	0.340	115	21.41	7.33	8.355	2.7
108mm	Copper (Table Z)	1.20	108.25	108.0	105.7	8780	405	0.340	71.2	10.66	3.57	8.780	2.7
125mm	Heavy Steel	5.40	140.6	138.7	127.7	13050	2270	0.438	520	73.4	17.8	13.05	4.4
	Medium Steel	4.85	140.6	138.7	129.8	13250	2065	0.438	470	67.4	16.2	13.25	4.4
5"	Copper (Table X)	1.50	133.5	133.25	130.4	13350	621	0.419	134	20.26	5.47	13.35	3.0
	Copper (Table Y)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
133mm	Copper (Table Z)	1.50	133.5	133.25	130.4	13350	621	0.419	134	20.26	5.47	13.35	3.0
150mm	Heavy Steel	5.40	166.1	164.1	154.3	18700	2700	0.518	862	105	21.2	18.70	4.8
	Medium Steel	4.85	166.1	164.1	155.3	18950	2455	0.518	787	95.4	19.2	18.95	4.8
6"	Copper (Table X)	2.00	159.5	159.25	155.4	18950	988	0.501	304	38.42	8.71	18.95	2.7
	Copper (Table Y)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
159mm	Copper (Table Z)	1.50	159.5	159.25	156.4	19200	743	0.501	230	29.09	6.55	19.20	2.7

LONDON
Incorporating HEVAC Industrial
Unit 8, Hounslow Trade Park
Hounslow, TW3 3FW
T: 020 8577 7667
E: londonsales@vip-ltd.co.uk

VALUE IS PARAMOUNT

MANCHESTER
Incorporating F Ashton Ltd
VIP House, Chaddock Lane
Astley, M29 7JT
T: 01942 885 700
E: sales@vip-ltd.co.uk