

Water Assembly Dimension and Spatial Requests

			2	3	4	5	6	7	8	9	10	11	12	13	Total Length
Meter Size (mm)	Meter Assembly Type	Meter Type	Up Stream Meter Assembly Elbow / Bend Length (mm)	Upstream Isolating Valve Length (mm)	Dirt Box Yes/ No	Minimum Length of Pipe Down Stream of Meter (mm) = 5 x dia of pipe	Meter Length (mm) Including dirt box where applicable for meters up to 50mm	Minimum Length of Pipe Upstream of Meter (mm) = 3 x dia of pipe	Testing Ferrule Length (mm)	Meter Down Stream Isolating Valve Length (mm)	Line Strainer Length (mm)	Typical Backflow Prevention Device Length (mm)	Isolating Valve Down Stream of Backflow Device	Down Stream Meter Assembly Elbow / Bend Length (mm)	
20mm	Main General Low Hazard	Mechanical	N/A	Right angle ball valve 60mm	N/A	N/A	220 including couplings	N/A	N/A	N/A	N/A	110	N/A	50	440
20mm	Main General with Testable device	Mechanical	N/A	Right angle ball valve 60mm	N/A	N/A	220 including couplings	N/A	N/A	84	100	233	84	50	831
20mm	Check	Mechanical	N/A	Right angle ball valve 60mm	N/A	N/A	220 including couplings	N/A	N/A	Only required where damage may occur in removing meter 84	N/A	N/A	N/A	50	330 or 414 with additional isolating valve
20mm	Recycled Water	Mechanical Dual Check	N/A	Right angle ball valve 60mm	N/A	N/A	220 including couplings non standard threads to meter	N/A	N/A	N/A	N/A	Cross connection control within meter	N/A	50	330
25mm	Main General Low Hazard	Mechanical	N/A	Right angle ball valve 75mm	N/A	N/A	250 including couplings	N/A	N/A	Only required where damage may occur in removing meter 99	N/A	114	N/A	60	499 or 613 with additional isolating valve
25mm	Main General with Testable device	Mechanical	N/A	Right angle ball valve 75mm	N/A	N/A	250 including couplings	N/A	N/A	99	99	233	99	60	816
25mm	Check	Mechanical	N/A	Right angle ball valve 75mm	N/A	N/A	250 including couplings	N/A	N/A	Only required where damage may occur in removing meter 99	N/A	N/A	N/A	60	484
32mm	Main General Low Hazard	Mechanical	70	100	Yes	N/A	325	N/A	32	N/A	N/A	160	100	70	857
32mm	Main General with Testable device	Mechanical	70	100	Yes	N/A	325	N/A	32	100	112	233	100	70	1142
32mm	Fire Hosereel & General Low Hazard	Mechanical	70	100	Yes	N/A	325	N/A	32	N/A	N/A	160	100	70	857
32mm	Check	Mechanical	70	100	Yes	N/A	325	N/A	N/A	Only required where damage may occur in removing meter 100	N/A	N/A	N/A	70	565 or 665 with additional isolating valve
40mm	Main General Low Hazard	Mechanical	75	125	Yes	N/A	350	N/A	32	N/A	N/A	312	125	75	1094
40mm	Main General with Testable device	Mechanical	75	125	Yes	N/A	350	N/A	32	125	124	312	125	75	1219
40mm	Fire Hosereel & General	Mechanical	75	125	Yes	N/A	350	N/A	32	N/A	N/A	312	125	75	
40mm	Check	Mechanical	75	125	Yes	N/A	350	N/A	N/A	Only required where damage may occur in removing meter 125	N/A	N/A	N/A	75	750
50mm	Main General Low Hazard	Mechanical	93	152	Yes	N/A	523	N/A	32	N/A	N/A	367	N/A	93	1260
50mm	Main General Testable device	Mechanical	93	152	Yes	N/A	523	N/A	32	152	140	367	152	93	1704
50mm	Fire Hosereel & General	Mechanical	93	152	Yes	N/A	523	N/A	32	N/A	N/A	367	152	93	1412
50mm	Check	Mechanical	93	152	Yes	N/A	523		N/A	Only required where damage may occur in removing meter 152	N/A	N/A	152	93	1013 or 1165 with additional isolating valve
80mm	Main General Low Hazard	Mechanical	170	282	258	440	344	280	32	N/A	N/A	400	282	170	2658
80mm	Main General Testable device	Mechanical	170	282	258	440	344	280	32	282	315	400	282	170	3255
80mm	Fire Hosereel & General	Mechanical	170	282	258	440	344	280	32	282	N/A	400	282	170	2940
100mm	Main General Low Hazard	Mechanical	210	305	292	540	318	340	32	305	N/A	535	305	210	3762
100mm	Main General High Hazard	Mechanical	210	305	292	540	318	340	32	305	370	535	305	210	3762
100mm	Fire Hydrant / Sprinkler	Mag Meter (full flow)	210	305	N/A	540	250	340	32	305	N/A	410 SCVT	305	210	3267
100mm	Fire Hydrant / Sprinkler	SCDAT	210	305	N/A	N/A	By-pass only	N/A	N/A	N/A	N/A	410 SCDAT	305	210	1440
100mm	Fire Hydrant / Sprinkler & General	Mag Meter (full flow)	210	305	N/A	540	250	340	32	305	N/A	535	305	210	3032
150mm	Main General Low Hazard	Mechanical	360	403	381	790	300	490	32	N/A	510	685	403	360	4714
150mm	Main General High Hazard	Mechanical	360	403	381	790	300	490	32	403	510	685	403	360	4311
150mm	Fire Hydrant / Sprinkler	Mag Meter (full flow)	360	403	N/A	790	300	490	32	403	N/A	410 SCVT	403	360	3951
150mm	Fire Hydrant / Sprinkler & General Hazard	Mag Meter (full flow)	360	403	N/A	790	300	490	32	403	N/A	685	403	360	4226
150mm	Fire Hydrant / Sprinkler	SCDAT	360	403	N/A	N/A	By-pass only	N/A	N/A	N/A	N/A	572 SCDAT	403	360	2098
200mm	Main General Low Hazard	Mechanical	420	403	428	1040	350	640	32	N/A	N/A	960	419	420	5112
200mm	Main General High Hazard	Mechanical	420	419	428	1040	350	640	32	419	600	960	419	420	6147
200mm	Fire Hydrant / Sprinkler	Mag Meter (full flow)	420	419	N/A	1040	350	640	32	419	N/A	673 SCVT	419	420	4832
200mm	Fire Hydrant / Sprinkler & General	Mag Meter (full flow)	420	419	N/A	1040	350	640	32	419	N/A	960	419	420	5119
200mm	Fire Hydrant / Sprinkler	SCDAT	420	419	N/A	N/A	By-pass only	N/A	N/A	N/A	N/A	673 SCDAT	403	360	2339