

FLOWMETER OPERATIONAL RANGES

Aquamonix flowmeters are designed to provide accurate metering over a wide range of applications from low flow gravity flow systems to high velocity pumped applications. The low flow and high flow limits will meet all likely flow conditions in irrigation and urban projects. The units are fitted with a user configurable “Low Flow” cut off which is factory configured to set a minimum flow rate where the meter provides accurate flow readings within +/-5% in field.

Typical meter performance will remain well inside the NMI $\pm 2.5\%$ accuracy error from a low flow velocity of approximately 80mm/s (Q1) up to the maximum recommended flow velocity of 10m/s (Q4). All Aquamonix flow meters are wet flow calibrated in NATA traceable flow rig to provide better than 2.5% accuracy between Q1 and Q4.

Aquamonix Flowmeter Performance Data

Nominal Size	Q1		Q3		Q4	
	0.08 m/s		5.00 m/s		10.00 m/s	
	L/s	ML/day	L/s	ML/day	L/s	ML/day
50mm	0.2	0.017	10.0	0.9	20.0	1.7
80mm	0.4	0.034	25.0	2.2	50.0	4.3
100mm	0.6	0.05	40.0	3.5	80.0	6.9
150mm	1.4	0.12	88.0	7.6	176.0	15.2
200mm	2.5	0.22	157.0	13.6	314.0	27.1
250mm	3.9	0.3	245.0	21.2	490.0	42.3
300mm	5.7	0.5	353.0	21.9	706.0	61.0
350mm	7.7	0.7	481.0	41.6	962.0	83.1
375mm	8.8	0.8	552.0	47.7	1104.0	95.4
400mm	10.0	0.9	628.0	54.3	1256.0	108.5
450mm	12.7	1.1	795.0	68.7	1590.0	137.4
500mm	15.7	1.4	982.0	84.8	1964.0	169.7
600mm	22.6	2.0	1414.0	122.2	2828.0	244.3
700mm	30.8	2.7	1923.0	166.1	3846.5	332.3
800mm	40.2	3.5	2512.0	217.0	5024.0	434.1
900mm	50.9	4.4	3179.0	274.7	6358.5	549.4
1000mm	62.8	5.4	3925.0	339.1	7850.0	678.2
1100mm	76	6.5	4750	406	9500	812
1200mm	90	7.8	5625	487	11250	874
1300mm	106	9.1	6625	568	13250	1137
1400mm	123	10.6	7687	662	15374	1325
1500mm	141	12.2	8812	762	17624	1525

Note: - The Meter performance figures above are the manufacturers recommendations based on available internal and independent hydraulic flow testing results and estimated performance where flow test facilities were not available. Pattern approval data may differ due to testing limitations and customers should make themselves aware of any pattern or industry certification approvals that may apply to their specific metering application.

- Q1** = Minimum flow rate at which meter achieves accuracy error of 2.5%
Q3 = Nominal maximum continuous flow at which meter achieves better than 2.5%
Q4 = Maximum flow rate at which meter achieves accuracy error of better than 2.5%
V = Flow velocity in m/s