

S100

Hot Water to 90°C°

15 & 20mm single-jet totaliser flowmeters with optional pulse output

FEATURES

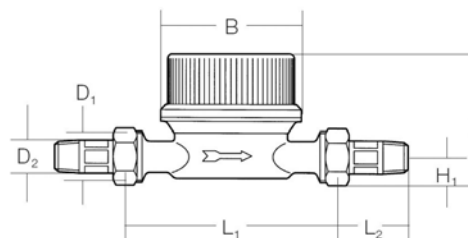
- Easy read totaliser.
- Compact light-weight design.
- Readout can be swiveled to any position
- Single-jet impeller measurement.
- Optional pulse output for logging, Remote displays etc
- Accuracy $\pm 2\%$ (Qt-Qs)
- Measures water temperature to 90°C.
- Passes small solids without jamming.
- Low head losses -ideal for gravitational flows
- Screwed ends with coupling connectors supplied as standard



The S100 15 and 20mm single-jet totaliser water meters operate on the velocity principle, where water enters the flowmeter and drives the inner rotor. The meter has a very easy-to-read totaliser mechanism displaying down to 1 Litre. A clock dial further indicates in 0.1 Litre increments. Ideal for hot water tanks and other applications where compactness and weight are installation issues. S100 meters are optionally configured with a volt-free Reed Switch contact closure pulse output for water monitoring, data logging and other applications where a remote read is required. (15mm and 20mm size with 10 litres per pulse) with 0.5 metre 2 wire cable lead. The register is waterproofed. The meters are pre-calibrated and recommended for installation in a horizontal upright position. (May be installed in any position except upside down but calibration may change).

SPECIFICATIONS

Model Number		S100-15-P10	S100-20-P10
Size (mm)		15	20
Pulse output (OPTIONAL)	“ “	10 litres per pulse	10 Litres per pulse
Mechanical register	Litres minimum	0.1	0.1
Minimum flow	Qm $\pm 5\%$ Litres/minute	0.5	0.83
Transitional flow	Qt $\pm 2\%$ Litres/minute	2	3.3
Nominal flow	Qn $\pm 2\%$ Litres/minute	25	42
Maximum flow	Qs $\pm 2\%$ Litres/minute	50	83
Continuous load	Litres/hr	1500	2500
Weight Kg	Meter only	0.4	0.55
	Kg	Meter with connectors	0.6
			0.85



Flowrate to EEC Class-B specs horizontal position. For rising and vertical runs Qm=1 Litre/minute, Qt=2 Litres/minute. Pressure rating:PN16, Headloss @ Qs <1bar, Headloss @ Qn< 0.25bar. Maximum totalizer reading: 9,999.999 m³. Conforms to ISO DIS 10385 for warm water.

Optional Pulse Cable: 2-core, 0.5 metre length 2-wire termination connection. Reed switch pulse: V.max: 24 VDC, I.max: 50mA. (with some input devices, to avoid bounce install a 450pF capacitor across input).

DIMENSIONS (mm)

Model No:	15mm size	20mm size
Length L1	115	130
Length L2	40	50
Height H1	17	21
Height H2	70	72
Width	70	70
Meter body thread	G 3/4" B	G 1" B
Meter couplings	R 1/2"	R 3/4"

ORDER CODES

S100-15	15mm (1/2") mechanical only
S100-15R10	15mm (1/2") mechanical + 10 Litres per pulse
S100-20	20mm (3/4") mechanical only
S100-20-P10	20mm (3/4") mechanical + 10 Litres per pulse
-CV	Optional check valve on inlet

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Rev: 05/18

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