

CT5-S25 25mm totaliser positive displacement flowmeter with high rate 36 pulses/Litre pulse output

FEATURES

- Volumetric rotary piston principle, measures accurately in any position.
- Mechanical totaliser.
- 36 pulses/Litre Reed Switch contact closure output for precision data collection and flowrate readings.
- Designed to meet AS3565.1-1998.
- Accuracy (Qt to Qs): $\pm 2\%$, Repeatability: $\pm 0.15\%$



The CT5-S25 25mm water meter is suitable for measurement of cold water up to 30 °C with a working pressure up to 1200 kPa. The meter offers great accuracy and a long operating life for domestic drinking water applications.

The mechanical counter register is positioned for easy reading and displays from 0.5 to 100,000,000 Litres. The precision engineered rotary piston measuring chamber ensures accurate measurement even at very low starting flow rates. Meters can be installed in any position without affecting accuracy and require no onsite calibration. An inline filter element prevents blockages and an internal check valve stops backflows (can optionally have dual check-valves).

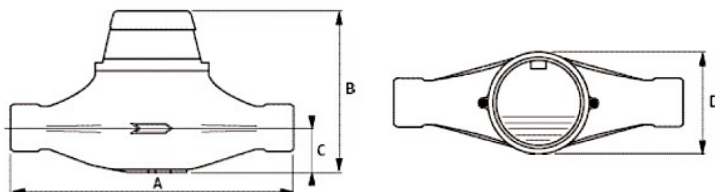
CT5-S25 flowmeters are fitted with a high resolution reed switch contact closure output. At the request of various water authorities, with Manuflo technology, 36 pulses per Litre (ppl) output signal is achieved (at nominal flow), which is the highest amount of pulses per Litre for a domestic water meter of this size (whilst retaining the mechanical register). This allows capture of precision water measurement information to data-loggers and to other data collection devices. Very accurate data can then be obtained for water usage totals and flowrate habits of consumers. Electrical connection is via a 1.5 metre 2-core shielded cable.

All meters are supplied with a gasket seat coupling connection kit (optional ball seat available). CT5-S25 flowmeters are manufactured from high quality materials to meet Australian specification requirements.

The CT5-S25 25mm provides the best pulse output rate for domestic water meters of this size, with 36 pulses/Litre.

SPECIFICATIONS

Size	mm	25
Pulse output rate	Pulses/Litre	36
Mechanical register	Minimum Litres	0.5
	Maximum KL	10^5
Weight with couplings	kg	3.1
Starting flow rate	Litres/min	0.1
Min. registration	Qr $\pm 5\%$ Litres/min	0.42
Min. transitional flow	Qt $\pm 2\%$ Litres/min	0.67
Nom. continuous flow	Qn $\pm 2\%$ Litres/min	105
Max. intermittent flow	Qs $\pm 2\%$ Litres/min	131



Other Specifications

Headloss @ Qn < 100 kPa; Maximum pressure rating 1200 kPa; Maximum water temperature 30 °C.

Accuracy Qt to Qs: $\pm 2\%$; Repeatability: $\pm 0.15\%$.

Reed switch pulse Vmax: 24V; I max: 50mA, with anti-bounce and current-limiting resistor fitted.

Cable: 2-core, 1.5 metre length (with some input devices, to avoid bounce install a 450pF capacitor across input).

Other pulse data: Typically 50% duty cycle pulse (equal on/off state), largest difference 46% on / 54% off state.

At Qs flowrate (131 Litres/min), pulserate maximum frequency is 78.6 Hz (2.183 Litres/sec x 36 pulses/Litre).

Pipeline must be full at all times for correct measurement. Suitable for clean water only. Purge the pipeline prior to install.

Once installed, to avoid damage to measuring chamber, bleed the liquid into the pipeline and flowmeter.

DIMENSION (see diagrams)	
Length A	178 mm
Height B	156 mm
Width C	44 mm
Width D	10 mm

Order Code	Description
CT5-S25	25mm flowmeter, with Gasket Seat 3/4" BSP (male) coupling set

Options	(add suffix to flowmeter Order Code)
-BS25	Ball seat 1" BSP (female) coupling set for NSW, instead of Gasket Seat
-DCV	Dual Check Valve

Thread connections available to suit different states.

Also available : 15mm CT5-S15 and 20mm CT5-S20 (see separate data sheets).

ManuFlo [®]™

Flow Measurement Products

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