

Class C Woltman Water Meter

- Measures the volume of clean, cold water passing through a pipeline.
- DMA (District Metered Areas)
- MNF (Minimum Night Flow)
- Water Preservation Management
- Leakage Detection

- Accuracy Performance Class C Approval.
- Easy to read LCD Display protected from condensation.
- Various communication options.
- Digital encoding with Transfer Interface to Output 4-20mA, Pulse, RS-485, Modbus (RTU).
- Reliably starts measuring with low water flows.
- Wide measuring range.
- Built-in filter to block foreign bodies.
- Built-in flow straightener.
- Built-in 8 years life expectancy Lithium battery (Under normal use).
- Replaceable battery.
- Easy installation and maintenance.
- Gear free, with electronic sensing devices.
- Meter not affected by magnetic interference.
- Enclosure Rating: IEC60529 IP68 / Gauss 1500 Protection.
- Cast Iron epoxy coated body.
- Verification certification available on request.
- Each meter has a unique serial number.

Technical drawing of the 100mm valve showing front and side views with dimensions. The front view (left) shows a circular valve body with a central opening of diameter $\varnothing$. The outer diameter of the body is $D1$, and the total diameter including the mounting flange is $D2$. The side view (right) shows the valve mounted on a wall with a total length L . The mounting flange has a thickness of 100 mm . The distance from the wall to the center of the valve body is $H2$, and the distance from the wall to the bottom of the valve body is $H1$.

Type	Size (mm)	Class	m³/h				m³		Factor	Pulse Values (Per Pulse) Available on request
			q ^s	q ^p	q ^t	q ^{min}	Min. Reading	Max. Reading		
			Max. Flow	Nominal Flow	Transitional Flow	Min. Flow				
EMS - 50	50	C	30	15	0,225	0,09	0,0001	99 999	x 1	1 ℓ or 10 ℓ or 100 ℓ
EMS - 80	80	C	80	40	6	0,24	0,0001	99 999	x 1	1 ℓ or 10 ℓ or 100 ℓ
EMS - 100	100	C	120	60	0,9	0,36	0,0001	99 999	x 1	1 ℓ or 10 ℓ or 100 ℓ
EMS - 150	150	C	300	150	2,25	0,9	0,001	999 999	x 1	10 ℓ or 100 ℓ or 1000 ℓ
EMS - 200	200	C	500	250	3,75	1,5	0,001	999 999	x 1	10 ℓ or 100 ℓ or 1000ℓ
EMS - 250	250	C	800	400	6	2,4	0,001	999 999	x 1	10 ℓ or 100 ℓ or 1000 ℓ
EMS - 300	300	C	1200	600	9	3,6	0,01	999 999 9	x 1	100 ℓ or 1000 ℓ

Type	Size (mm)	L	D2	H	Available Connecting Flange BS4505			One Meter Per Wooden Crate	
					D	D1	n-M	± Weight (kg)	Dimensions (mm)
		Length (mm)	Flange Diameter (mm)	Height (H1 + H2) (mm)	Outside Diameter (mm)	Bolt Circle Diameter (mm)	Connecting Bolts		
					T16	T16	T16		
EMS - 50	50	200	165	285	165	125	4-M16	19	330 x 330 x 390
EMS - 80	80	200	200	310	200	160	8-M16	21	330 x 330 x 390
EMS - 100	100	250	238	319	220	180	8-M16	23	330 x 330 x 390
EMS - 150	150	300	290	384	285	240	8-M20	30	420 x 400 x 470
EMS - 200	200	350	342	411	340	295	12-M20	54	420 x 400 x 470
EMS - 250	250	440	410	525	405	355	12-M24	82	550 x 530 x 620
EMS - 300	300	500	464	557	460	410	12-M24	108	550 x 530 x 620
Working Pressure (Bar)			16						

BULK METERS EMS 50mm – 300mm

Class C Woltman Water Meter



INTELLIGENT MANAGEMENT FUNCTIONS

- Anti-Magnetic Symbol.
- Leakage Indicator (Days).
- Forward & Reverse Flow Direction Indicator.
- Battery Level Indicator.
- Tamper-proof indicator.
- Instantaneous Flow Rate Value.
- Accumulated Flow Rate Value.
- Overload Flow Rate Chart.
- Accumulated Flow Rate Chart.

MAXIMUM PERMISSIBLE ERRORS

- In the lower zone from $q^{\min}$ inclusive up to but excluding q^t is $\pm 5\%$.
- In the upper zone from q^t inclusive up to and including q^p is $\pm 2\%$.

WORKING CONDITIONS

- Maximum fluid temperature: $\leq 60^\circ\text{C}$ for cold water: 1600 kPa (16 Bar).
- Maximum fluid temperature: $\leq 60^\circ\text{C}$ for cold water: 2400 kPa (24 Bar) on request.
- Ambient working temperature: -25°C to 70°C .

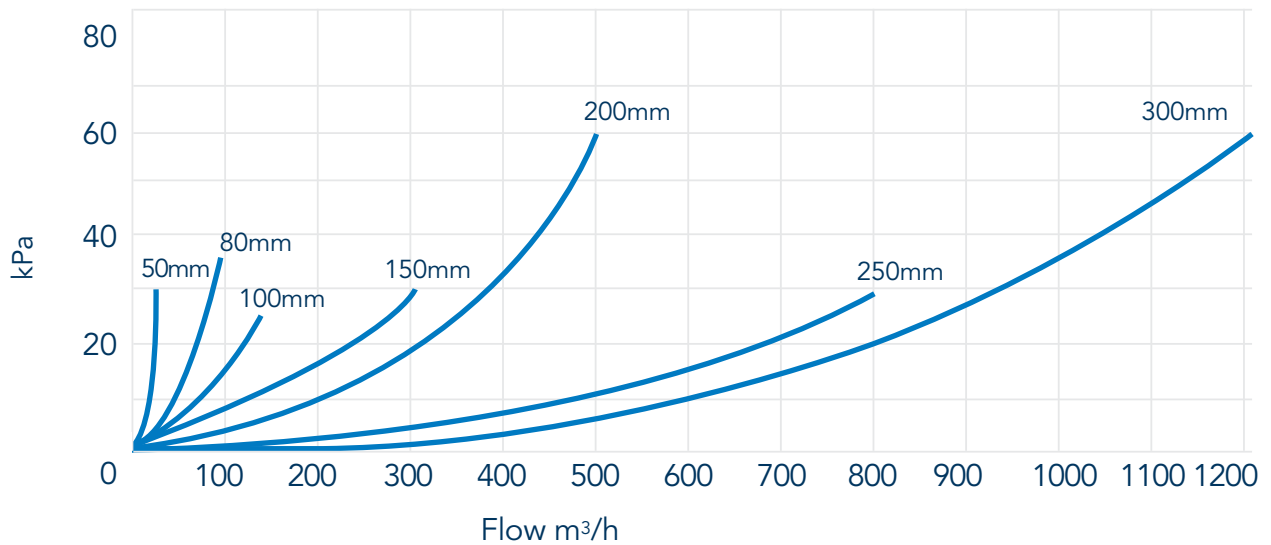
COMPLIANCE STANDARD

- Compliance with SANS 1529 – 1: 2006 for sizes: 50mm – 100mm (Class C).
- Compliance with ISO4064 for sizes: $>100\text{mm}$ (Class C).

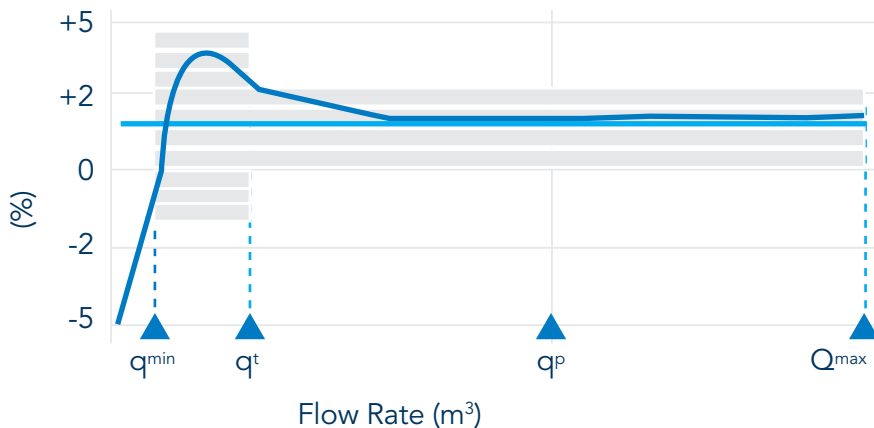
INSTALLATION REQUIREMENTS

- Must be installed on a horizontal pipeline only.
- Pipeline must be flushed before installation.

HEAD LOSS DATA



FLOW ERROR CURVE



Johannesburg
+27 11 609 6336

Cape Town
+27 21 510 4266

Kwazulu-Natal
+27 31 701 1470

www.precisionmeters.co.za