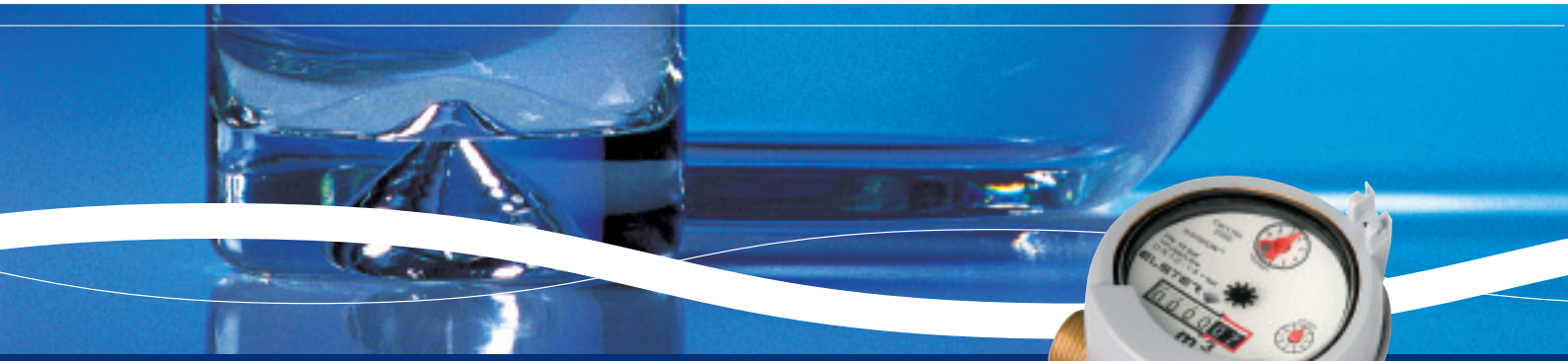
V200 and V210

The Kent range of Domestic Volumetric cold water meters

The meters that give you more



elster

V200 and V210

Volumetric cold water meters

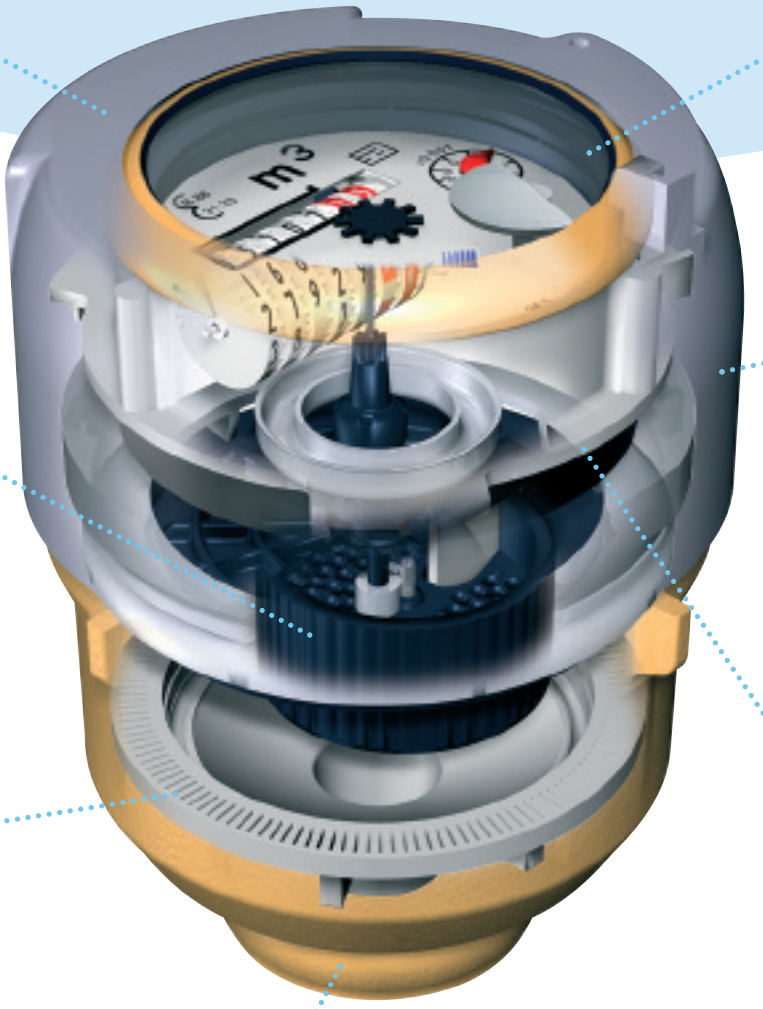
Manufacturing water meters for utility, commercial and domestic applications, Elster Metering Limited is the world's leading manufacturer of integrated metering, offering solutions for revenue metering, cost allocation, network monitoring, distribution and industrial applications. V200 and V210 volumetric meters are designed to maximise revenue collection and both are available in a range of sizes covering a wide range of flow rates.

V210 meter manifold connection

Communication
Pre-equipped wih inductive pulse target allowing integration into remote reading systems

Grooved piston design gives long working life and reduces blockages

Filter design
improves flow and reduces headloss



Compact, easy to handle and robust body

Hermetically sealed register
Glass lens and copper can register, providing conformity to IP68

Tamperproof
snap fit shroud

Pressure plate
with 'O' ring seal to ensure no unmetered bypass

An engineered performance all around

Volumetric design
Permits optimum performance in horizontal, vertical or inclined pipe-lines.

Proven grooved piston
For excellent durability.

Hermetically sealed copper can register
To waterproof and eliminate condensation.

Communications
Providing access to management information.

Innovative communication

As the demand for remote metering increases the V200/V210 offers a range of communication options for every utility company. Incorporating an inductive pulse target which can be read by a tamper proof, bi-directional inductive pulse transmitter, the V200/V210 is easily integrated into a remote reading system by simply adding the relevant module. The bi-directional inductive pulser monitors the flow of water and is self-powered for years of reliable use.

The V200/V210 can also be fitted with the revolutionary new InVISION register module to provide an encoded output. InVISION works by using Optical Character Recognition (OCR) technology to 'read' the numbers on the wheels of the register, the many benefits of which include:

- Absolute reading
- Zero contact, zero friction, virtually 100% accuracy
- Easy retro-fitting
- Simple to link with Emeris radio technology

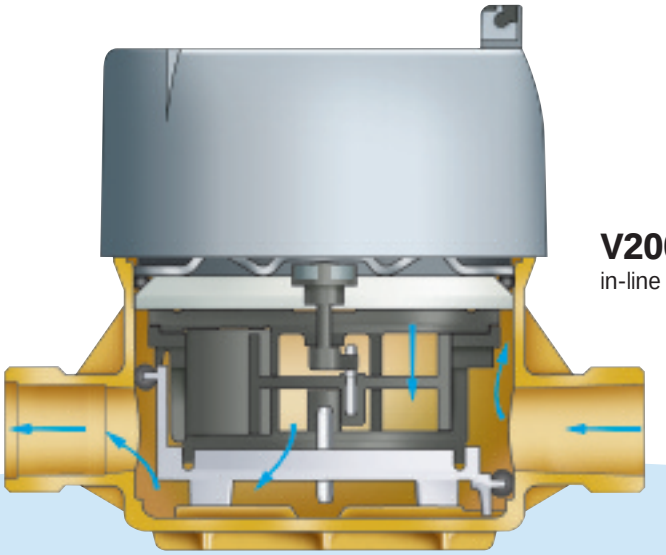
Outstanding accuracy and long term performance

V200 and V210 meters are designed to give long, trouble-free working life, with excellent features such as the proven grooved piston design. The action of this piston creates flow eddies in the grooves which hold solids in suspension until flushed out, reducing the possibility of meter stoppages. The V200/V210 meters offer the lowest headloss when compared to competitors' meters reducing network leakage operational costs.

- Performance exceeds ISO4064 Class D standard
- Detection of extremely low flows
- Precision calibrated assembly method
- Maximised revenue collection by innovative design

Register and shroud

The easy to read, hermetically sealed copper can register has a 10-year proven track record. Tamper-proof registers are sealed to eliminate condensation and waterproofing, and offer conformity to IP68.



V200 meter
in-line connection

V200 and V210

S P E C I F I C A T I O N S

Performance to BS5728 and ISO4064

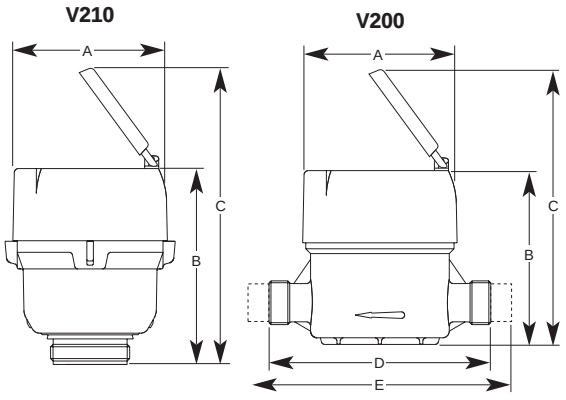
			Class D					
Meter Code			**V200**	**V200**	**V210**	**V210**	**V210**	**V210**
Meter thread size		in	G¾"A	G1"A	G1½"A	G1½"A	G1½"A	G2"A
Overload flow rate	qs±2%	m³/h	3	5	2	3	5	7
Permanent flow rate	qp±2%	m³/h	1.5	2.5	1	1.5	2.5	3.5
Transitional flow rate	qt±2%	l/h	11.5	28.75	11.5	17.25	28.75	40.25
Minimum flow rate	qmin±5%	l/h	7.5	18.75	7.5	11.25	18.75	26.25
Starting flow (approx.)		l/h	2	2	2	2	2	3
All models	Headloss at qs less than 1 Bar. Headloss at qp less than 0.25 Bar Maximum water temperature 50ºC. Maximum working pressure 16 Bar Maximum registration 99.999.99m³							

			Class C				
Meter Code			**V200**	**V200**	**V210**	**V210**	**V210**
Meter thread size		in	G¾"A	G1"A	G1½"A	G1½"A	G2"A
Overload flow rate	qs±2%	m³/h	3	5	3	5	7
Permanent flow rate	qp±2%	m³/h	1.5	2.5	1.5	2.5	3.5
Transitional flow rate	qt±2%	l/h	22.5	37.5	22.5	37.5	52.5
Minimum flow rate	qmin±5%	l/h	15	25	15	25	35
Starting flow (approx.)		l/h	2	2	2	2	3
All models	Headloss at qs less than 1 Bar. Headloss at qp less than 0.25 Bar Maximum water temperature 50ºC. Maximum working pressure 16 Bar Maximum registration 99.999.99m³						

Meter Description		**V200 Qp1.0&1.5**	**V200 Qp2.5**	**V210 Qp1.0&1.5**	**V210 Qp2.5**	**V210 Qp3.5**
Meter diameter (A)	mm	94	94	94	94	130.5
Height of meter (B)	mm	113	111	126	136	142
Height of meter – (lid open) (C)	mm	180	177	193	203	209
Meter lengths (D)	mm	110,115,134,165	165,190	N/A	N/A	N/A
Height of meter with Encoder	mm	127	125	140	150	156
Length over connections (E)	mm	195,200,228,250,	263,288	N/A	N/A	N/A
Weight (approx.)	kg	0.95	1.2, 1.26	0.92	1.04	1.85
Height with bi-directional pulser = B+10mm						

Register options

Meter Description	Inductive	Encoder
V210 (N1, N1.5, N2.5)	1 Pulse / Litre	Full reading in m³
V200 (N1, N1.5, N2.5)	1 Pulse / Litre	Full reading in m³
V210 (N3.5)	1 Pulse / Litre	Full reading in m³



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