

OVERVIEW

The Elster V100 PD meter is the worlds largest selling domestic water meter. The V100's unique design offers an unparalleled blend of accuracy, durability and security. The V100 meter is ideal for sub metering due to its ability to maintain its accuracy in a number of installation positions.

Positive Displacement meters are based on a calibrated chamber of know capacity and a rotary piston activated by the energy of the flow that passes through. The piston rotates while the chamber fills up and empties with a constant volume of water. By counting these cycles the register indicate

KEY FEATURES

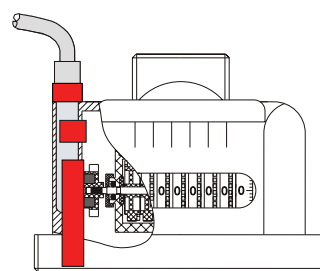
- Accuracy in any position
- Durable Tamper Proof Construction
- Water Temperature up to 50C
- Max working pressure 16 Bar
- Pulse Output - 1 Pulse per 5 Litres
- Easy to Read Sealed face
- Leak Proof Design



APPLICATION

The V100 water meter is designed for both internal and external use. This meter can be installed in any position as long as the flow is in the same direction as the arrow cast into the meter body. We reccomend installing isolation valves for easy servicing.

Pulse Output - 1 pulse per 5 Litres



- Reed Switch Assembly
- Magnet

Part No	Description
WMP20	20mm Elster PD Meter + Couplings
WMP20R	20mm Elster PD Meter + Couplings + Reed Switch
WMP25	25mm Elster PD Meter + Couplings
WMP25R	25mm Elster PD Meter + Couplings + Reed Switch

Specification

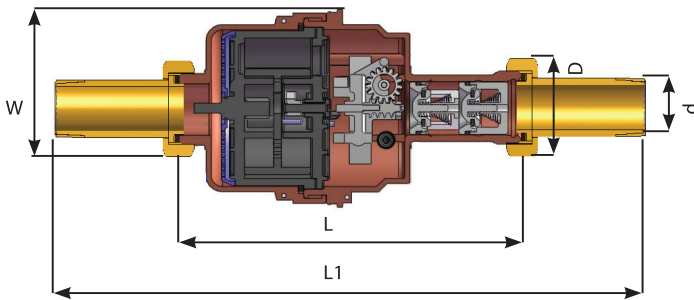
	DN20	DN25
Overload Flow Rate (Q4):	5 kL/h	7.8 kL/h
Permanent Flow Rate (Q3):	4 kL/h	6.3 kL/h
Transition Flow Rate (Q2):	32 L/h	64 L/h
Minimum Flow Rate (Q1):	20 L/h	40 L/h
Maximum Reading kL:	9999.99999	
Minimum Reading m kL:	0.00002	
Operating Water Temperature:	≤ 30° C	
Operating Water Pressure:	≤ 1.4 MPa.	

Maximum Permissible Error:

☞ In the lower zone from Q1 inclusive up to but excluding Q2 is ± 5%

☞ In the upper zone from Q3 inclusive up to and including Q4 is ±2%

Dimensions



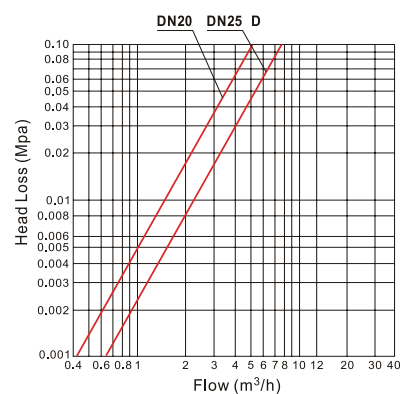
Dimensions

Nominal Diameter	DN 20		DN 25	
	Meter Thread	NSW Thread	Meter Thread	NSW Thread
Body Length in mm (L)	154	152	178	173
Total Length in mm (L ₁)	242	276	282	316
Connector Thread (d)	R¾		R1	
Width in mm (W)	96		112	
Weight in kg (without connectors)	1.2		1.8	
Weight in kg (with connectors)	1.5		2.4	

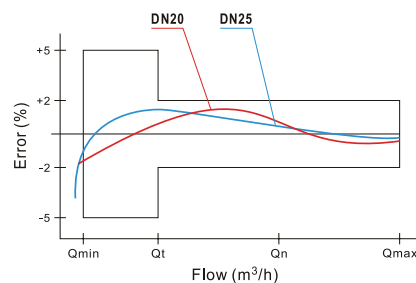
L₁ is the total length when coupling gaskets without compression.

Flow Characteristics

Head Loss Curve



Accuracy Curve



Materials

Body/ H Ring:	DR Bass
Reading Face:	Polycarbonate
Counter Mechanism:	PSHI, Graphite
Check Valves:	Acetal