S120

RESIDENTIAL SINGLE-JET WATER METER
COLD WATER

Product Specification

The S120 is a single-jet water meter that has been designed for very accurate water measurement. All parts are manufactured by Elster to the highest specifications and the latest test procedures prove every meter's accuracy prior to despatch. The meter is approved to ISO4064 Class B in the horizontal position, Class A in the vertical position.

Robustness

The meter is capable of high flows for a short period of time. The meter is manufactured from the highest quality materials for maximum resistance to wear and corrosion. One example of this, is the jewelled rotor bearings which are used to provide flow sensitivity and long life. All Elster meters have a mesh filter for added protection against debris.

Register

The register is super dry and guarantees excellent security through a snap-fit locking system. The register has 360° rotation, ensuring easy readability. A copper can register with a glass lens is also available.

Valuable management information can be obtained via a pulse unit available on the plastic register version.

Security

Elster meters have a number of security features which protect it from tampering.

- Snap-fit locking register and shroud system;
- Anti-fraud ring that will prevent the meter being opened after installation;
- Reliable anti-fraud indication system, which allows tampering to be detected.

Main Features

- Single-Jet meter Class "B", Magnetic transmission;
- INMETRO Approval (Brazil Version);
- Excellent wear resistance and good performance at low flow rates;
- Performance at or above the required NBR NM 212 and ISO 4064;
- Register super dry IP68;
- Register versions: Copper+Glass, Plastic.

Optional

- Hot Pin steel Shiel;
- Maximum registration 99.999m³;
- Customer logo in register;
- Pulse Enable reed switch K=1L / 1P.

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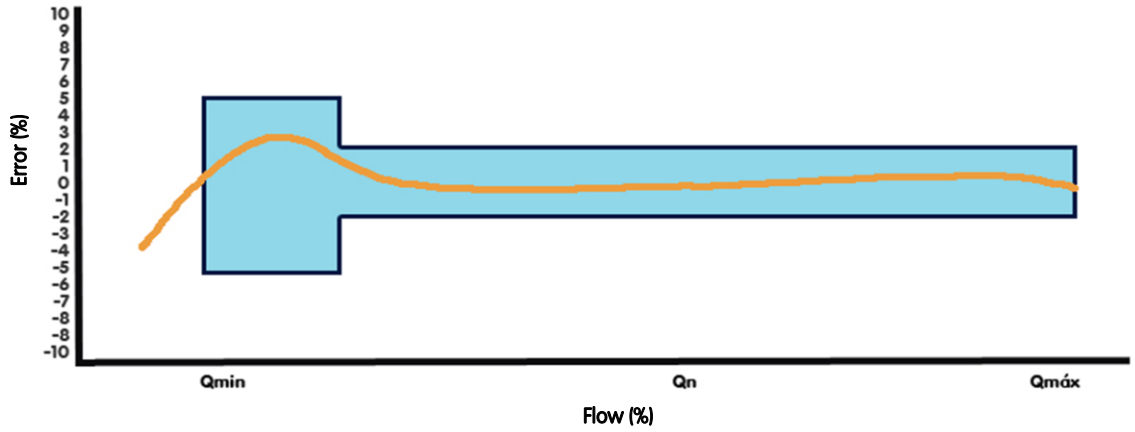
Error Loss



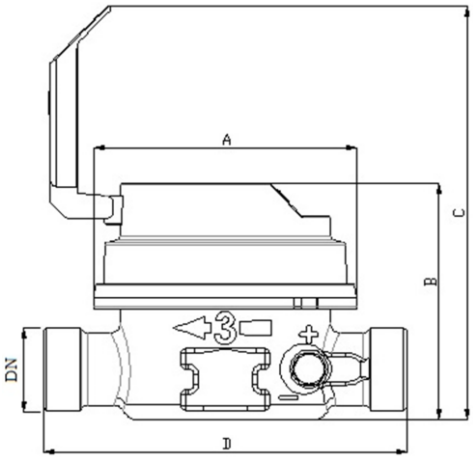
Performance

CLASS B		Qn 0,6 m³/h	Qn 0,75 m³/h	Qn 1,5 m³/h
INMETRO Approval		386/09	239/07	236/07
Qmax ±2%	m³/h	1,2	1,5	3,0
Qt ±2%	l/h	48,0 H	60,0 H 75,0 V	120,0 H 150,0 V
Qmin ±5%	l/h	12 H 30,0 V	15,0 H / 12 H* 30,0 V	30,0 H 40,0 V
Starting flow (approximately)	l/h	5,0	5,0	10,0
Headloss at maximum flow	bar	0,59	0,59	0,8
Maximum working pressure	bar	10		
Maximum water temperature	°C	40		
Minimum registration	m³	0,00002		
Maximum registration	m³	9.999 / 99.999*		
Pulse Connectivity		Magnetic 1L/1P*		

* Optional

Dimensions

Qn 0,75 / 1,5					
Register		Plastic 45°	CopperCan 45°	Plastic Plane	CopperCan Plane
A	mm	ø84	ø89	ø84	ø84
B	mm	75	86	75	83
C	mm	131	155	139	146
DN - D	Inch - mm		½" ¾" — 115 ½" — 165 ½" ¾" — 190		



Reed Switch Sensor *	
IP	68
Vmax	24 VDC
Imax	60 mA
Resistor	100 Ohm
Cable	2 x 26AWG x Ø3,2mm
Cable length	2 Metros

* Supplied separately

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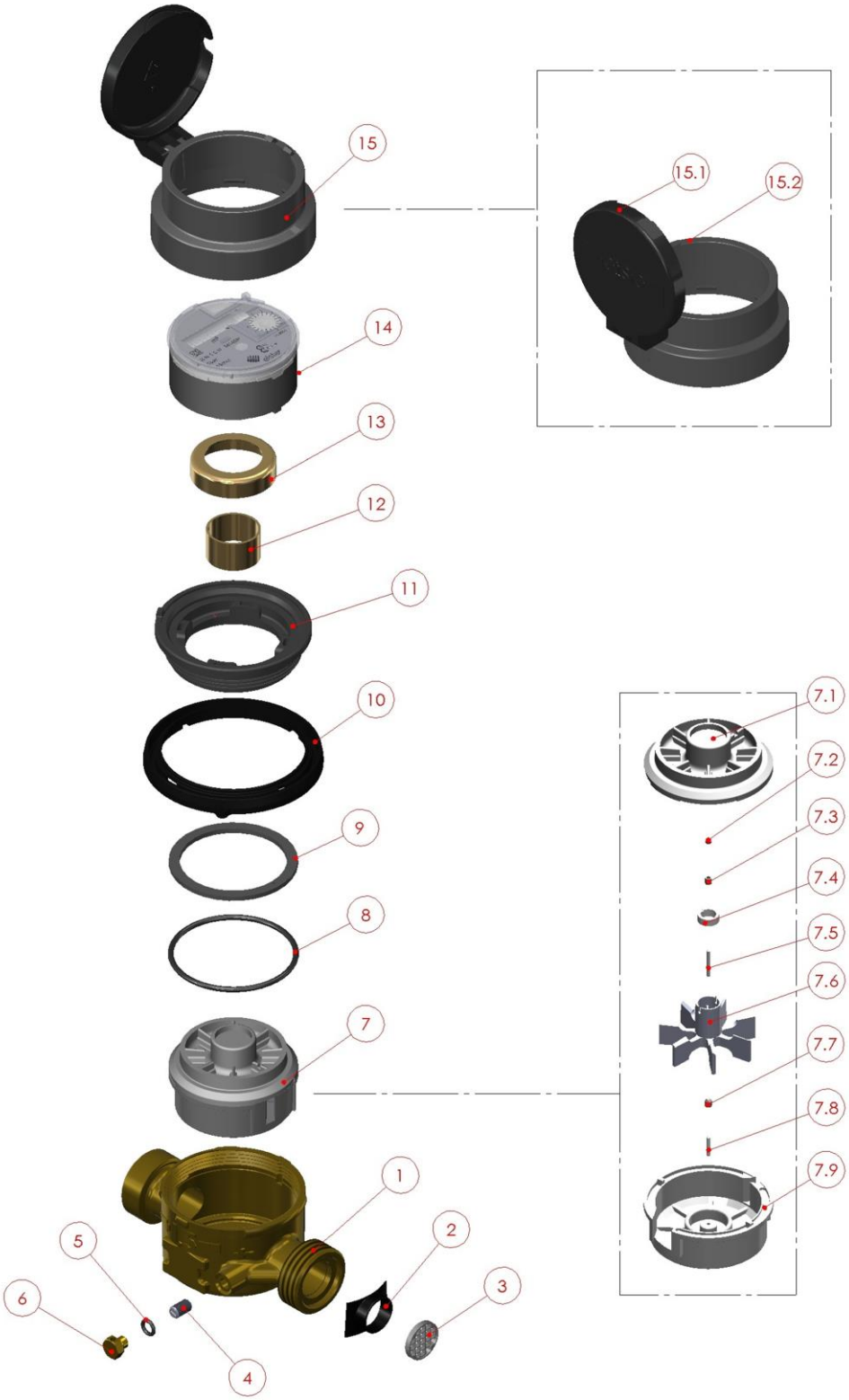

Parts List	
1	Body
2	Sealing Insert cap
3	Strainer
4	Regulating Screw
5	O'ring (Regulating)
6	Regulating Plug
7	Measuring Unit
7.1	Pressure plate
7.2	Sapphire (Jewel)
7.3	Pressure Plate Bush
7.4	Magnet
7.5	Rotor Spindle
7.6	Rotor (Turbine)
7.7	Rotor Bush (Turbine Bush)
7.8	Chamber Spindle
7.9	Measuring Chamber
8	O'Ring(Chamber Sealing)
9	Slip Ring (skid ring)
10	Clamp Ring
11	Screw Ring
12	Internal Magnet Protection
13	Elbow Magnet Protection
14	Assembled Register
15	Assembled Shroud
15.1	Lid
15.2	Shroud

About Elster Group

A world leader in advanced metering infrastructure, integrated metering, and utilisation solutions to the gas, electricity and water industries, Elster's systems and solutions reflect over 170 years of knowledge and experience in measuring precious resources and energy. Elster provides solutions and advanced technologies to help utilities more easily, efficiently and reliably obtain and use advanced metering intelligence to improvecustomer service, enhance operational efficiency, and increase customer benefits. Elster's AMI solutions enable utilities to cost-effectively deliver, manage, and conserve the life-essential resources of gas, electricity, and water. Elster has over 7500 staff and operations in 38 countries in North and South America, Europe, and Asia.

For additional information, visit agua.elster.com.br

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