



Overview

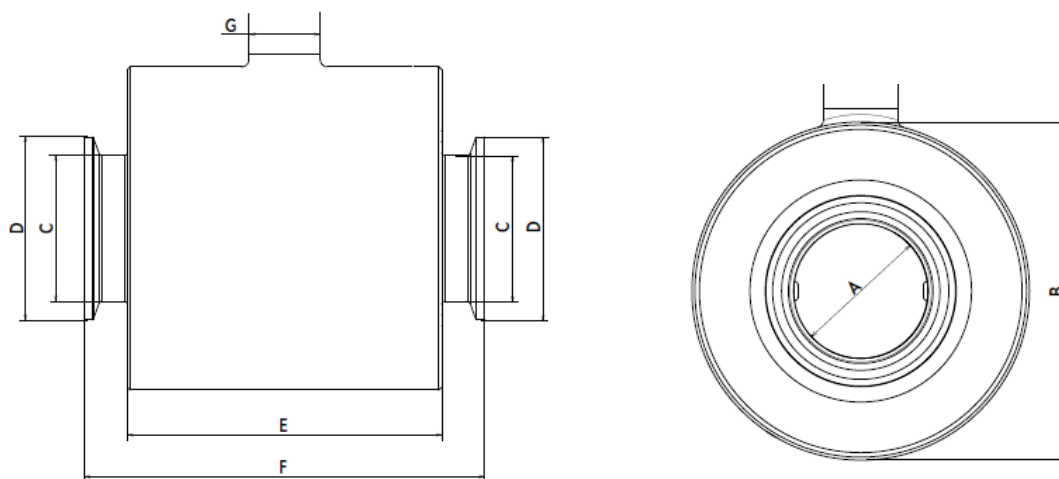
- Volume and Mass measurement with different units
- The best alternative to the weighing system in dairies
- Especially precise and stable measurements with accuracies to 0.2%
- Hygienic design with Tri-clamp connection easily clean and sanitize
- Easy to use without any special configuration and settings

Technical properties

Mechanical properties		
Pipe Diameter size		38
Fluid Temperature Range		-20°C~ 120°C
Ambient Temperature		-20°C~ 70°C
Maximum Fluid Pressure		15 Bar
Mounting Connection		3A Clamp
Protection		IP68 For sensor unit
		IP67 for transmitter unit
Material	Lining	PTFE,PFA(on Request)
	Electrodes	AISI 316L ,Titanium(on Request)
	Sensor Wetted Parts	AISI 304, AISI 316L(on Request)

	Sensor Body	AISI 304
Transmitter properties		
Power		230Vac,50 Hz $\pm$ 10%
Display		5 Digit 7Segment
Power-up time		<15 S
Measurement Units	Flow	L/Min , m^3 /h , L/h
	Volume totalizer	m^3 , Lit
	Mass totalizer	Kg
Measurement Range		1.5 m^3 /h ~ 18 m^3 /h
		25 L/Min ~ 300 L/Min
		0000.0 to 9999.9 (L or m^3)
		00000 to 99999(L or m^3)
		0000.0 to 9999.9 Kg
		00000 to 99999 Kg
Accuracy		0.2% Full Scale
Repeatability		< 0.1%
response time		< 2 S
Totalizer		Volume , Mass (on Request)
Alarms		Empty Pipe , Calibration Set
Calibration		2 independent setting for Flow and Mass Calibration
Cable Gland		PG11 Gland

Dimensions

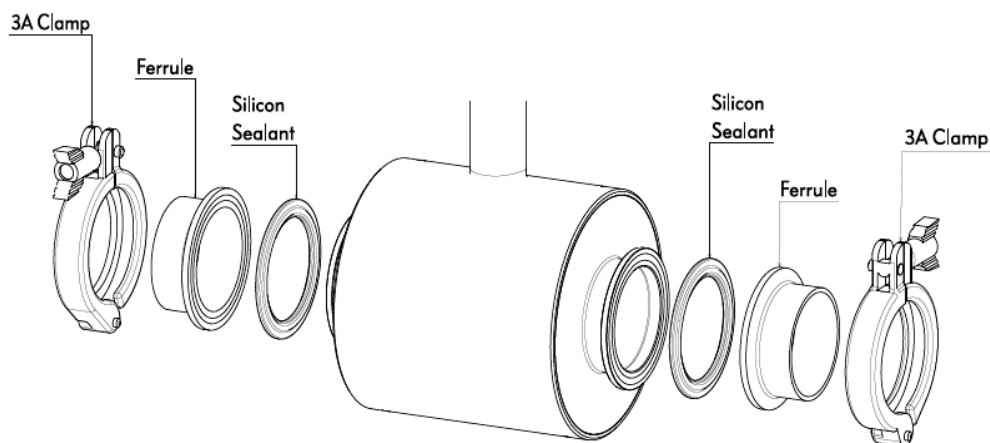


A	B	C	D	E	F	G
30mm	102mm	38mm	50mm	114mm	144mm	16mm

Installation and mounting

Mounting components

This flowmeter can be mounted on the pipe line using a ferrule which is welded to the pipe line directly. Two silicone gaskets are used between the sensor outlet/inlet connection in each side of the sensor and a 3A clamp is used to fasten the connection to the ferrule. The Figure illustrates the different components used in mounting the sensor.

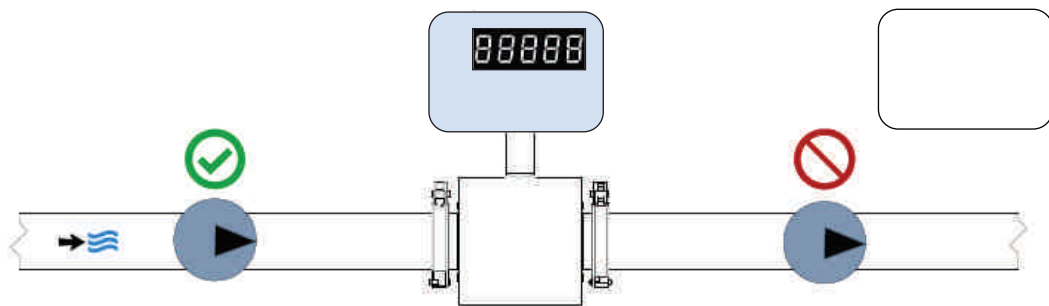


Mounting Components

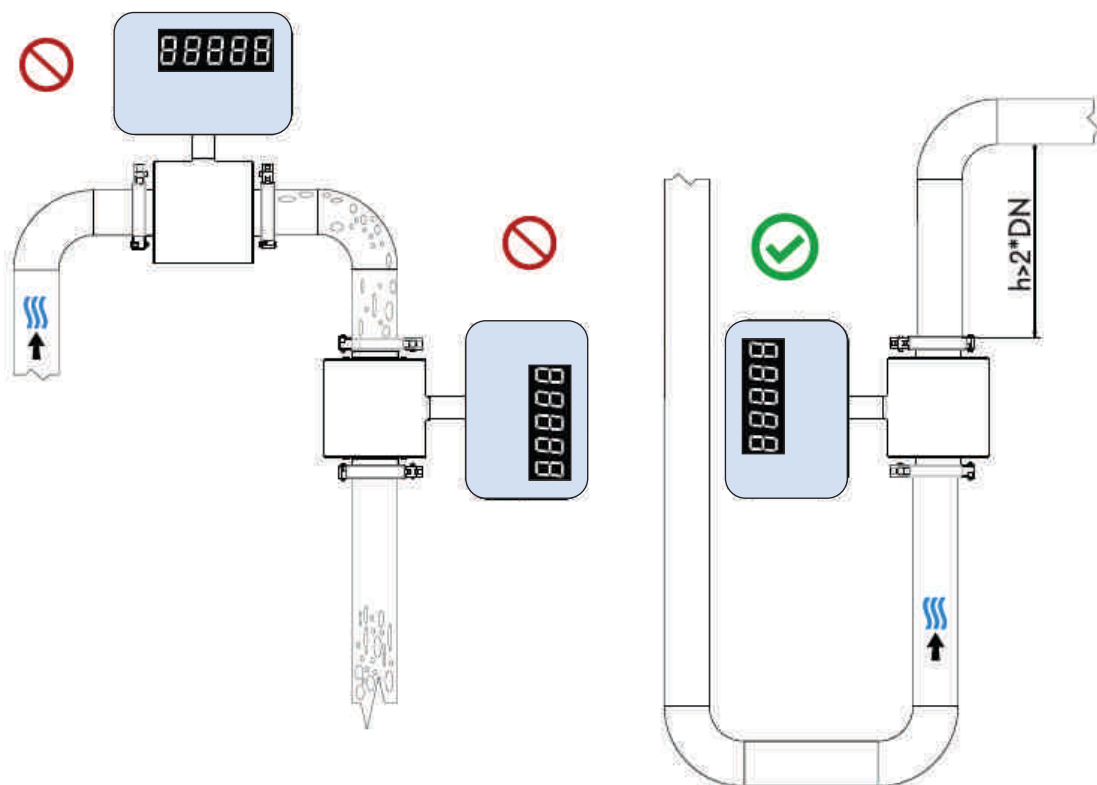
Mounting general consideration

The minimum required distance before the sensor until the other equipment such as valves, pumps and three-ways must be 10 times of the pipe diameter.

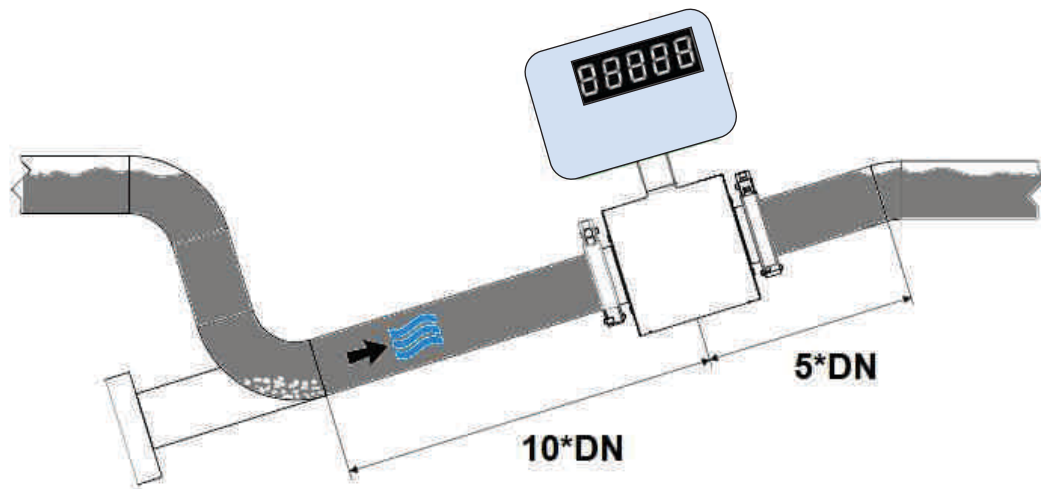
The minimum required distance after the sensor until the other equipment such as valves, pumps and three-ways must be 5 times of the pipe diameter.



Installation after Pump



Different mounting positions along a pipe



partially filled pipe with immersed solid particles installation

Prohibited mounting situations

Avoid to mount the device on pipe lines with extreme mechanical vibrations or in the existence of powerful magnetic fields.



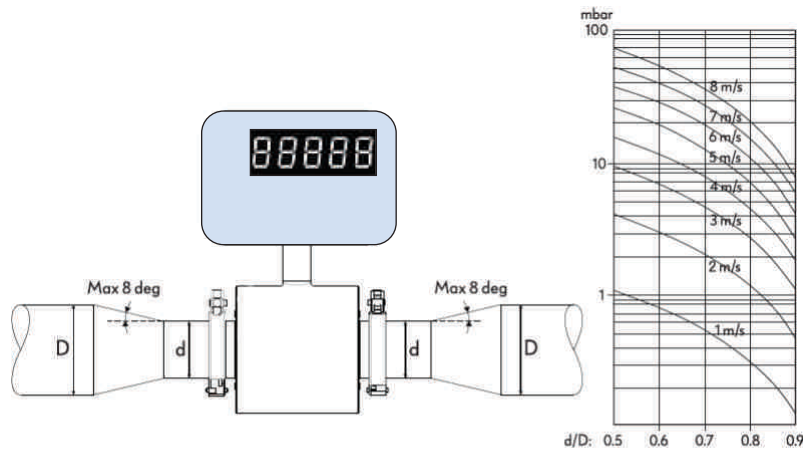
prohibited mounting situations

Reduced pipe line diameter

In the case of using pipe diameter reducers, a pressure loss occurs and the velocity of fluid passing through the sensor increases and this leads to preventing the liquids to produce coating on the internal wall of the pipe line and consequently the measurement accuracy improves. The Figure illustrates the pressure loss due to the diameter reduction.

The minimum required distance before the sensor until the reducer must be 10 times of the main pipe diameter.

The minimum required distance after the sensor until the reducer must be 5 times of the main pipe diameter.



pressure loss due to reduced pipe diameter