

Technical Information

VersaFlow Coriolis 100 Mass Flow Sensor Specification 34-VF-03-09, February 2022



The Universal Solution for the Process Industry

VersaFlow is the only sensor for mass flow in its class with secondary pressure containment as standard. VersaFlow reliably measures mass flow of liquids and gases, concentration, and density of liquids.

Highlights

- Innovative twin measuring tube
- Self-draining and easy to clean
- Insensitive to installation and external factors
- Optimized flow divider for minimum pressure loss
- High accuracy with best price-performance ratio
- Modular electronics concept: electronics and sensor easy to replace
- Data redundancy: accurate plug & play replacement of electronics
- Advanced Entrained Gas Management (EGM)
- Heating jacket
- Purge port option

Industries

- Water & Wastewater
- Chemical
- Paper & Pulp
- Petrochemistry
- Pharmaceutical



Figure 1 – VersaFlow Mass Flow Sensor

Applications

- Suitable for all standard applications up to 130°C / 266°F.
- Liquids with entrained gases.



Mass Flowmeter Product Family

All meters consist of a sensor and a converter, which may be mounted integral to the sensor, or remotely, either with a field mount kit or a wall mount housing.

Converter:

- Common hardware for All Converters Makes Spares Holding Simpler.
- Extensive diagnostics (Nemur NE107) and Entrained Gas Measurement for advanced requirements.



Figure 2 - Converter

1. TWC 9400 C: Compact or integrally mounted on sensor.
2. TWC 9400 F: Field mount up to 300 m / 1000 ft from sensor.

Sensor: Sensors for Any Applications



Figure 3 - Sensors

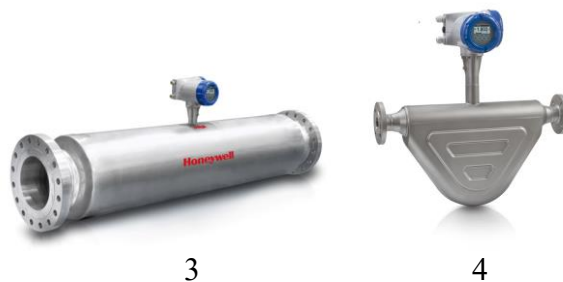


Figure 4 - Sensors

1. VersaFlow Coriolis 100: The general-purpose solution for process industry including Food and Beverage.
2. VersaFlow Coriolis 1000: The optimum solution for chemical, O&G and petrochemical industry for process measurements.
3. VersaFlow Coriolis 200: Large diameter meter suitable for custody transfer measurement.
4. VersaFlow Coriolis 6000: Twin bent tube design with extended pressure and temperature capabilities.

Technical Data

Measuring system

Table 1

Measuring principle	Coriolis mass flow
Application	Mass flow and density measurement of liquids and gases.
Measured variables	Mass, density, and temperature
Design	Fully welded sensor with twin straight tubes

Operating Data

Table 2

Size/Model Key no	S15 (1/2") (CM01)	S25 (1") (CM02)	S40 (1 1/2") (CM03)	S50 (2") (CM04)
Maximum flow rate [kg/h]	6500	27000	80000	170000
Maximum flow rate [lbs/min]	240	990	2935	6235

Accuracy

Table 3

Accuracy, liquid	±0.15% of actual measured flow rate + Zero stability
Repeatability, liquid	Better than 0.075% of actual measured flow rate + zero stability
Accuracy, gas	±0.5% of actual measured flow rate + Zero stability
Repeatability, gas	Better than 0.2% of actual measured flow rate + zero stability
Zero stability	±0.01% of nominal flow rate with respective sensor size

Reference Conditions

Table 4

Product	Water
Temperature	20°C/68°F
Operating pressure	1 barrel. / 14.5 psig

Density

Table 5

Measuring range	400...2500 kg/m ³ / 25...155 lbs/ft ³
Accuracy	±2 kg/m ³ / ±0.13 lbs/ft ³ (S15: ±5 kg/m ³ / ±0.33 lbs/ft ³)
Accuracy (on-site calibration)	±0.5 kg/m ³ / ±0.033 lbs/ft ³

Temperature

Table 6

Measuring sensor	Pt500
Measuring range	-40...+130°C / -40...+266°F
Accuracy	±1°C / ±1.8°F

Materials

Table 7

Measuring tube	Stainless steel UNS S31803 (1.4462)
Spigot	Stainless steel 316 / 316L (CF3M / 1.4409) dual certified
Flanges	Stainless steel 316 / 316L (1.4401 / 1.4404) dual certified
Outer cylinder (secondary pressure containment)	Stainless steel 304 / 304L (1.4301 / 1.4307) dual certified (Optional Stainless Steel 316 / 316L (1.4401 / 1.4404) dual certified)
Junction Box – remote version	Die cast Aluminum (polyurethane coating) Optional Stainless Steel 316 (1.4401)
Heating jacket version	
Heating jacket	Stainless Steel 316L (1.4404) (The outer cylinder is in contact with the heating medium)

Nominal Pressure at 20°C or 68°F

Table 8

Measuring Tube	SS 316 / 316L
FM / PED	-1...100 bar g/ -14.5 ...1450 psig
Outer Cylinder	
Non-PED/CRN Approved	Typical burst pressure > 100 barg. / 1450 psig
PED/CRN Approved secondary containment	-1...63 barg. / -14.5...910 psig
PED approved secondary containment	-1...100 barg. / -14.5...1450 psig

Temperature

Table 9

Process temperature - flanged connections	-40...+130°C / -40...+266°F
Process temperature - hygienic connections	-40...+130°C / -4...+266°F
Ambient temperature - compact version	-40...+60°C / -40...+140°F for Aluminum converter (Extended temperature range: +65°C / +149°F for some I/O options. For more information contact manufacturer.) -40...+55°C / -40...+130°F for Stainless Steel converter
Ambient temperature - remote version	-40...+65°C / -40...+149°F

Process Effects on the Sensor zero

Table 10

Temperature	0.001% per 1°C / 0.00055% per 1°F
Pressure	0.00012% of the max flow rate per 1 barrel / 0.0000083% of the max flow rate per 1 psig

Installation

Table 11

Inlet runs	None required
Outlet runs	None required

Approvals and Certifications

Table 12

Mechanical:	
Electromagnetic compatibility (EMC) acc. to CE	Namur NE 21/5.95 2004/108/EC (EMC) 2006/95/EC (Low Voltage Directive)
Protection category (acc. to EN 60529)	IP 67; NEMA 4X
European Pressure Equipment Directive	PED 97-23 EC (acc. to AD 2000 Regelwerk)
Factory Mutual / CSA	Class I, Div 1 groups A, B, C, D Class II, Div 1 groups E, F, G Class III, Div 1 hazardous areas Class I, Div 2 groups A, B, C, D Class II, Div 2 groups F, G Class III, Div 2 hazardous areas
ANSI / CSA (Dual Seal)	12.27.901-2003
IECEX	Available

Table 13

ATEX (acc. 94/9/EC)	
Coriolis 100/TWC9400C non Ex i Signal outputs without heating jacket / insulation	
Ex d connection compartment	II 1/2 G Ex d ia IIC T6....T1 Ga/Gb
	II 2 D Ex tb IIIC T165°C Db
Ex e connection compartment	II 1/2 G Ex de ia IIC T6....T1 Ga/Gb
	II 2 D Ex tb IIIC T165°C Db
Coriolis 100/TWC9400C non-Ex i signal outputs with heating jacket / insulation	
Ex d connection compartment	II 1/2 G Ex d ia IIC T6....T1 Ga/Gb
	II 2 D Ex tb IIIC T165°C Db
Ex e connection compartment	II 1/2 G Ex de ia IIC T6....T1 Ga/Gb
	II 2 D Ex tb IIIC T165°C Db
Coriolis 100/TWC9400C Ex i signal outputs without heating jacket / insulation	
Ex d connection compartment	I 1/2(1) G Ex d ia [ia Ga] IIC T6....T1 Ga/Gb
	II 2(1) D Ex tb [ia Da] IIIC T165°C Db
Ex e connection compartment	I 1/2(1) G Ex de ia [ia Ga] IIC T6....T1 G
	II 2(1) D Ex tb [ia Da] IIIC T165°C Db
Coriolis 100/TWC9400C Ex i signal outputs with heating jacket / insulation	
Ex d connection compartment	I 1/2(1) G Ex d ia [ia Ga] IIC T6....T1 Ga/Gb
	II 2(1) D Ex tb [ia Da] IIIC T165°C Db
Ex e connection compartment	I 1/2(1) G Ex de ia [ia Ga] IIC T6....T1 G
	II 2(1) D Ex tb [ia Da] IIIC T165°C Db

Approvals and Certifications continued

Table 14

ATEX (acc. 94/9/EC) temperature limits (standard)	Ambient temp. Tamb °C	Max. medium temp. Tm °C	Temp. class	Max. surface temp. °C
Coriolis 100/TWC9400 - with or without heating jacket / insulation	40	40	T6	T75
		55	T5	T90
		95	T4	T125
		130	T3 – T1	T165
	50	55	T5	T90
		90	T4	T125
		130	T3 – T1	T165
	65	75	T4	T110
		130	T3 - T1	T165
Coriolis 100/TWC9400 - aluminium converter housing – with or without heating jacket / insulation	40	40	T6	T75
		55	T5	T90
		90	T4	T125
		130	T3 – T1	T165
	50	55	T5	T90
		90	T4	T125
		130	T3 - T1	T165
	65	65	T4 - T1	T100
Coriolis 100/TWC9400 - SS converter housing – with or without heating jacket / insulation	40	40	T6	T75
		55	T5	90
		90	T4	T125
		130	T3-T1	T165
	50	55	T5	T90
		90	T4 – T1	T125
	60	60	T5 - T1	T95

Maximum pipework forces (end loadings)

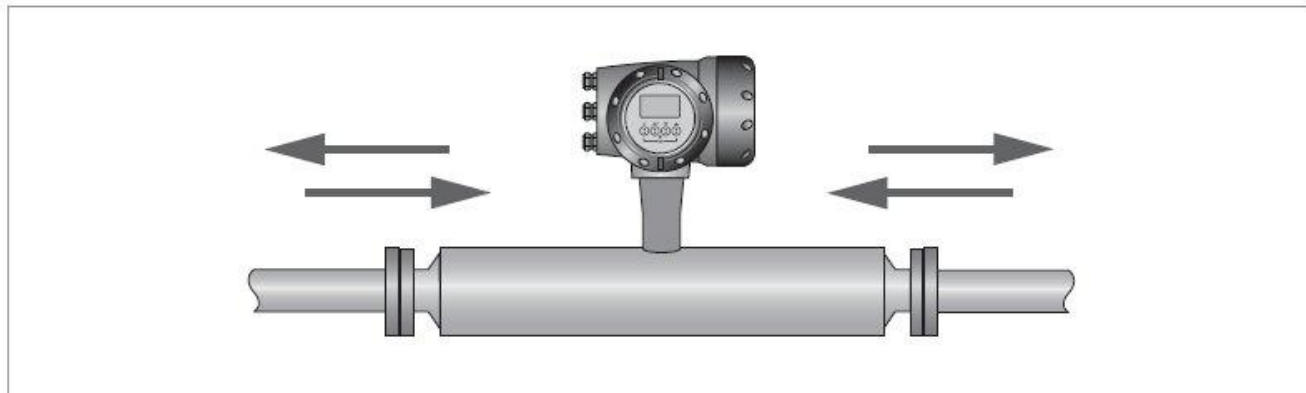


Figure 5 – Maximum Pipe Forces

Maximum end loadings

Coriolis mass flowmeters have a maximum limit of force that can be applied to the ends of the meter. Refer table below for the permitted forces.

Table 15

		S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Flanges					
20°C	40 barg	25kN	38kN	48kN	99kN
	100 barg	17kN	19kN	15kN	20kN
130°C	32 barg	18kN	28kN	35kN	72kN
	80 barg	12kN	12kN	7kN	8kN
Hygienic (all connections)					
130°C	40 barg	3kN	5kN	-	-
	25 barg	-	-	-	-
	16 barg	-	-	-	-

Notes: -

1. These axial loads have been calculated based on 316L schedule 40 process pipework and un-radiographed butt weld pipe joints.
2. The loads shown are the maximum permitted static load. If the loads are cycling (between tension and compression) these loads should be reduced.

Dimensions and Weights

Flanged Versions

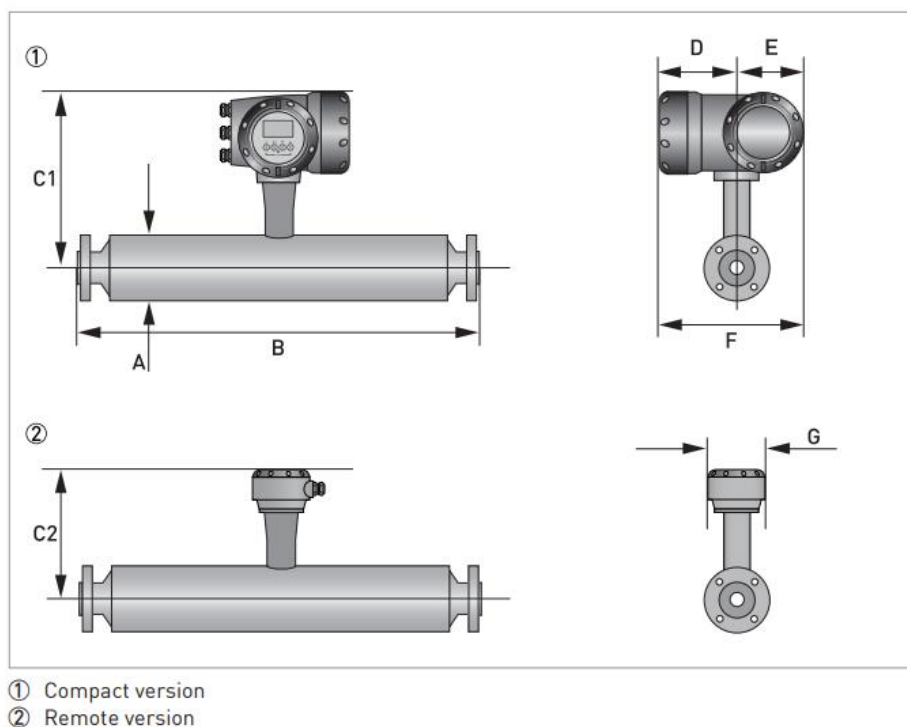


Figure 6 : Flanged Version

Meter Weights (all flanges)

Weight – kg (lbs)
Table 16

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Aluminium (compact)	13.5 (30)	16.5 (36.3)	29.5 (65)	57.5 (127)
Stainless Steel (compact)	18.8 (41)	21.8 (48)	34.8 (77)	62.8 (138)
Aluminium (remote)	11.5 (25)	14.5 (32)	25.5 (56)	51.5 (113)
Stainless Steel (remote)	12.4 (27)	15.4 (33.8)	26.4 (58)	52.4 (115)

Meter Weights (all flanges)**Dimension (mm)****Table 17**

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
A	101.6	114.3	168.3	219.1
C1 (Compact)	311	317	344	370
C2 (Remote)	231	237	264	290
D	137			
E	123.5			
F	260.5			
G	118			

Dimensions (inches)**Table 18**

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
A	4	4.5	6.6	8.6
C1 (Compact)	12	12.5	13.5	14.6
C2 (Remote)	9	9.3	10.4	11.4
D	5.4			
E	4.9			
F	10.2			
G	4.6			

Flange Connections**Dimensions (mm)****Table 19**

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
PN40				
DN15	498	-	-	-
DN25	503	531	-	-
DN40	513	541	706	-
DN50	-	547	712	862
DN80	-	-	732	882
DN100	-	-	-	896
PN63				
DN50	-	-	740	890
DN80	-	-	-	910
PN100				
DN15	513	-	-	-
DN25	538	567	-	-
DN40	-	575	740	-
DN50	-	-	752	902
DN80	-	-	-	922

Table 19 cont'd.

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
ASME 150				
½"	518	-	-	-
¾"	528	-	-	-
1"	534	563	-	-
1½"	-	575	740	-
2"	-	579	744	894
3"	-	-	756	906
4"	-	-	-	920
ASME 300				
½"	528	-	-	-
¾"	538	-	-	-
1"	546	575	-	-
1½"	-	589	754	-
2"	-	-	756	906
3"	-	-	-	926
ASME 600				
½"	541	-	-	-
¾"	550	-	-	-
1"	558	589	-	-
1½"	-	603	770	-
2"	-	-	774	926
3"	-	-	-	944
JIS 10K				
50A	-	-	712	862
80A	-	-	-	882
JIS 20K				
15A	498	-	-	-
25A	503	531	-	-
40A	-	541	706	-
50A	-	-	712	862
80A	-	-	-	882

Dimension B (inches)

Table 20

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
PN40				
DN15	19.6	-	-	-
DN25	19.8	21	-	-
DN40	20.2	21.3	27.8	-
DN50	-	21.5	28	33.9
DN80	-	-	28.8	34.7
DN100	-	-	-	35.3
PN63				
DN50	-	-	29	35
DN80	-	-	-	35.8
PN100				
DN15	20.2	-	-	-
DN25	21.2	22.3	-	-
DN40	-	22.6	29	-
DN50	-	-	29.6	35.5
DN80	-	-	-	36.3
ASME 150				
½"	20.4	-	-	-
¾"	20.8	-	-	-
1"	21	22.2	-	-
1½"	-	22.5	29.1	-
2"	-	22.8	29.3	35.2
3"	-	-	29.8	35.7
4"	-	-	-	36.2
ASME 300				
½"	20.8	-	-	-
¾"	21.2	-	-	-
1"	21.5	22.6	-	-
1½"	-	23.2	29.7	-
2"	-	-	29.8	35.7
3"	-	-	-	36.4
ASME 600				
½"	21.3	-	-	-
¾"	21.6	-	-	-
1"	22	23.2	-	-
1½"	-	23.7	30.3	-
2"	-	-	30.5	36.4
3"	-	-	-	37.2

Table 20 cont'd.

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
JIS 10K				
50A	-	-	28	33.9
80A	-	-	-	34.7
JIS 20K				
15A	19.6	-	-	-
25A	19.8	20.9	-	-
40A	-	21.3	27.8	-
50A	-	-	28	33.9
80A	-	-	-	34.7

Hygienic versions

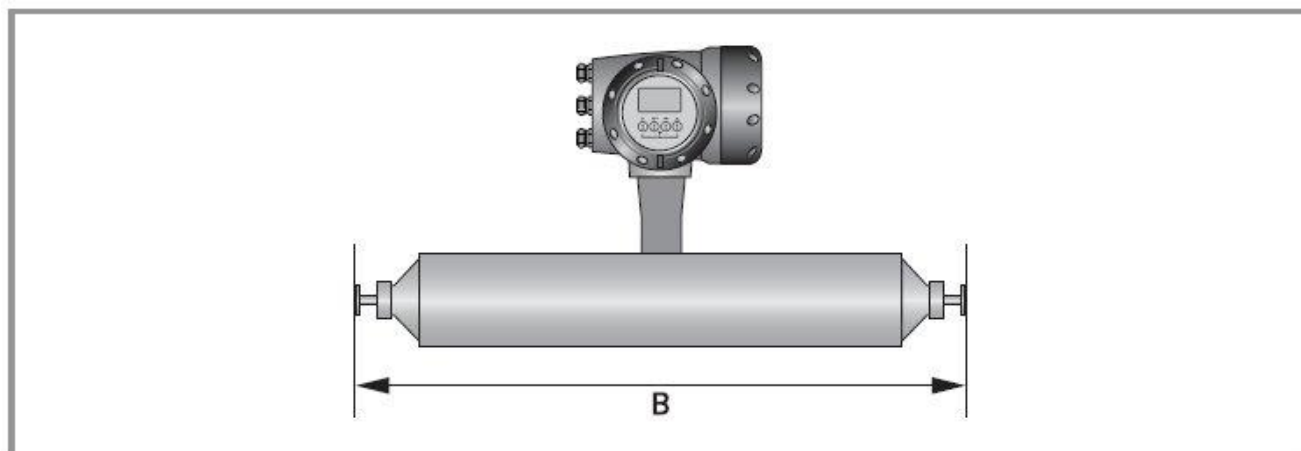


Figure 7 – Hygienic versions

Hygienic Connections: All Welded Versions

Dimension B (mm)
Table 21

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Tri-clover	-	-	-	-
1"	487	-	-	-
1½"	-	534	-	-
2"	-	-	691	-
3"	-	-	-	832

Dimension B (mm)
Table 22

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Tri-clamp DIN 32676				
DN10	-	-	-	-
DN15	-	-	-	-
DN25	468	-	-	-
DN40	-	515	-	-
DN50	-	-	677	-
DN80	-	-	-	836

Dimension B (mm)
Table 23

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Tri-clamp ISO 2852				
1"	473	-	-	-
1½"	-	502	-	-
2"	-	-	667	-
3"	-	-	-	817

Dimension B (mm)

Table 24

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
DIN 11864-2 form A				
DN25	505	-	-	-
DN40	-	562	-	-
DN50	-	-	724	-
DN80	-	-	-	896

Dimension B (inches)

Table 25

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Tri-clover				
1"	19.2	-	-	-
1½"	-	21	-	-
2"	-	-	27.2	-
3"	-	-	-	32.7

Dimension B (inches)

Table 26

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Tri-clamp DIN 32676				
DN10	-	-	-	-
DN15	-	-	-	-
DN25	18.4	-	-	-
DN40	-	20.3	-	-
DN50	-	-	26.6	-
DN80	-	-	-	32.9

Dimension B (inches)

Table 27

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Tri-clamp ISO 2852				
1"	18.6	-	-	-
1½"	-	19.8	-	-
2"	-	-	26.3	-
3"	-	-	-	32.2

Dimension B (inches)
Table 28

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
DIN 11864-2 form A				
DN25	19.9	-	-	-
DN40	-	22.2	-	-
DN50	-	-	28.5	-
DN80	-	-	-	35.3

Hygienic Connections: Adapter Versions (male thread)

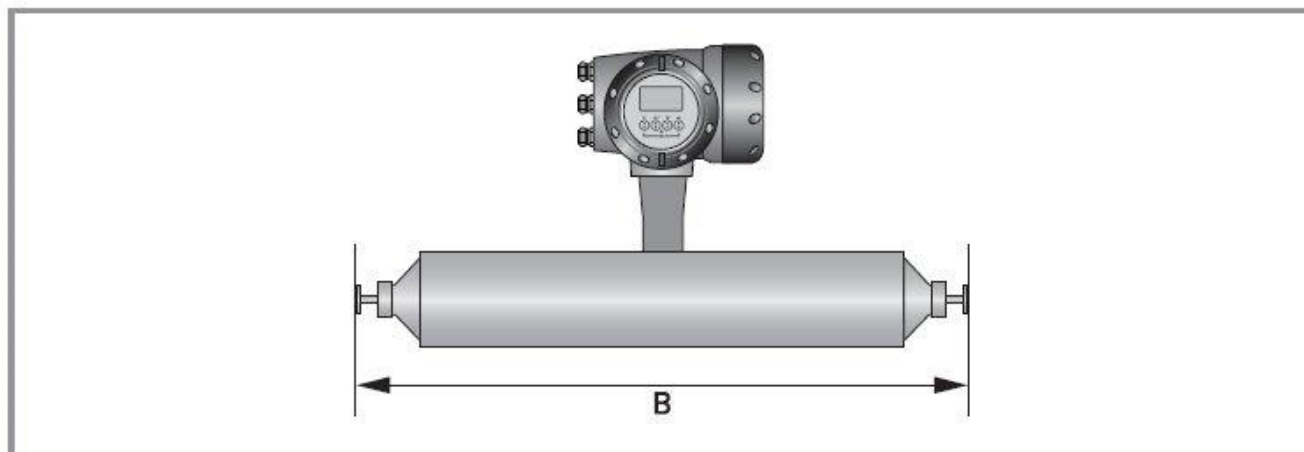


Figure 8 – Adapter Versions (male Thread)

Dimension B (mm)
Table 29

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread DIN 11851				
DN25	483	-	-	-
DN40	-	538	-	-
DN50	-	-	704	-
DN80	-	-	-	870

Dimension B (mm)
Table 30

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread SMS				
1"	474	-	-	-
1½"	-	537	-	-
2"	-	-	694	-
3"	-	-	-	837

Dimension B (mm)
Table 31

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread IDF/ISS				
1"	487	-	-	-
1½"	-	534	-	-
2"	-	-	691	-
3"	-	-	-	832

Dimension B (mm)

Table 32

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread RJT				
1"	498	-	-	-
1½"	-	545	-	-
2"	-	-	702	-
3"	-	-	-	843

Dimension B (inches)

Table 33

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread DIN 11851				
DN25	19	-	-	-
DN40	-	21.2	-	-
DN50	-	-	27.7	-
DN80	-	-	-	34.2

Dimension B (inches)

Table 34

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread SMS				
1"	18.7	-	-	-
1½"	-	21.1	-	-
2"	-	-	27.3	-
3"	-	-	-	32.9

Dimension B (inches)

Table 35

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread IDF/ISS				
1"	19.2	-	-	-
1½"	-	21	-	-
2"	-	-	27.2	-
3"	-	-	-	32.7

Dimension B (inches)

Table 36

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Male thread RJT				
1"	19.6	-	-	-
1½"	-	21.4	-	-
2"	-	-	27.6	-
3"	-	-	-	33.2

Heating Jacket Version

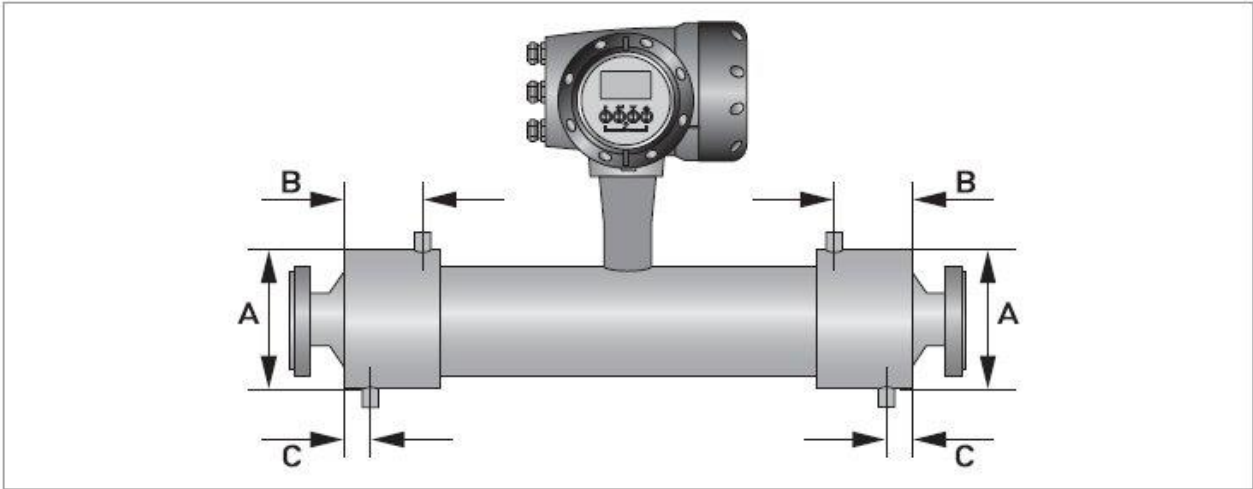


Figure 9

Dimensions – (mm)
Table 37

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Heating Conn Size	12 mm (ERMETO)			25
A	115 ±1	142 ±1	206 ±1	254 ±1
B	51	55	90	105
C	20			26

Dimensions – (inches)
Table 38

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
Heating Conn Size	½" (NPTF)			1
A	4.5 ±0.04	5.6 ±0.04	8.1 ±0.04	10 ±0.04
B	2.0	2.2	3.5	4.1
C	0.8			1.0

Purge Port Option

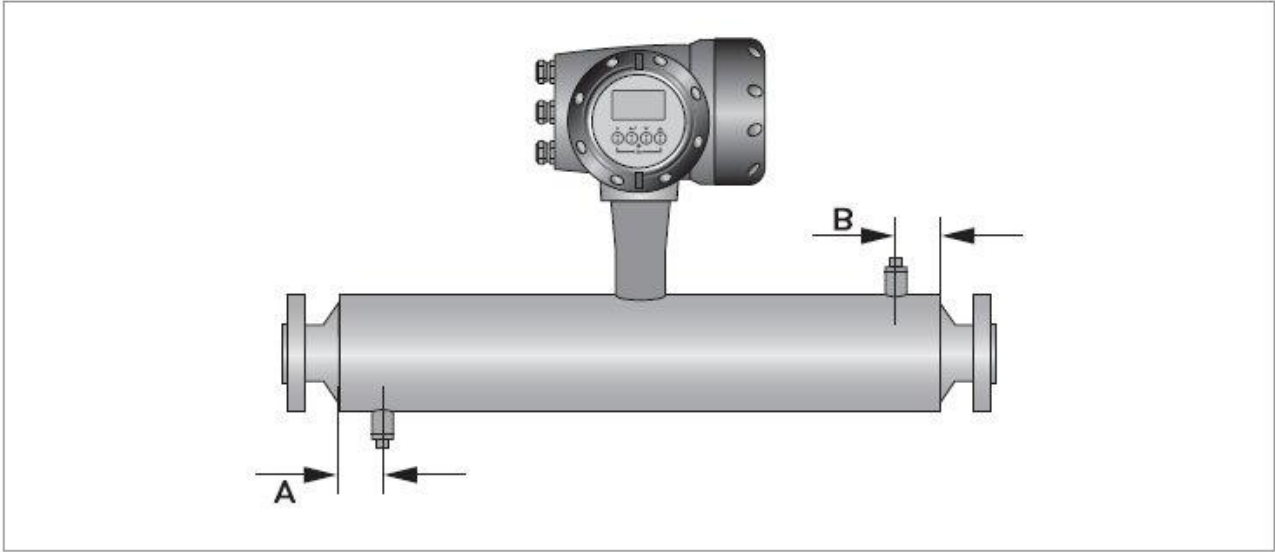


Figure 10
Dimensions – (mm)
Table 39

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
A	55 ±1.0		65 ±1.0	
B	55 ±1.0		65 ±1.0	

Dimensions – (inches)
Table 40

	S15 (CM01)	S25 (CM02)	S40 (CM03)	S50 (CM04)
A	2.2 ±0.04		2.5 ±0.04	
B	2.2 ±0.04		2.5 ±0.04	

Measuring Accuracy

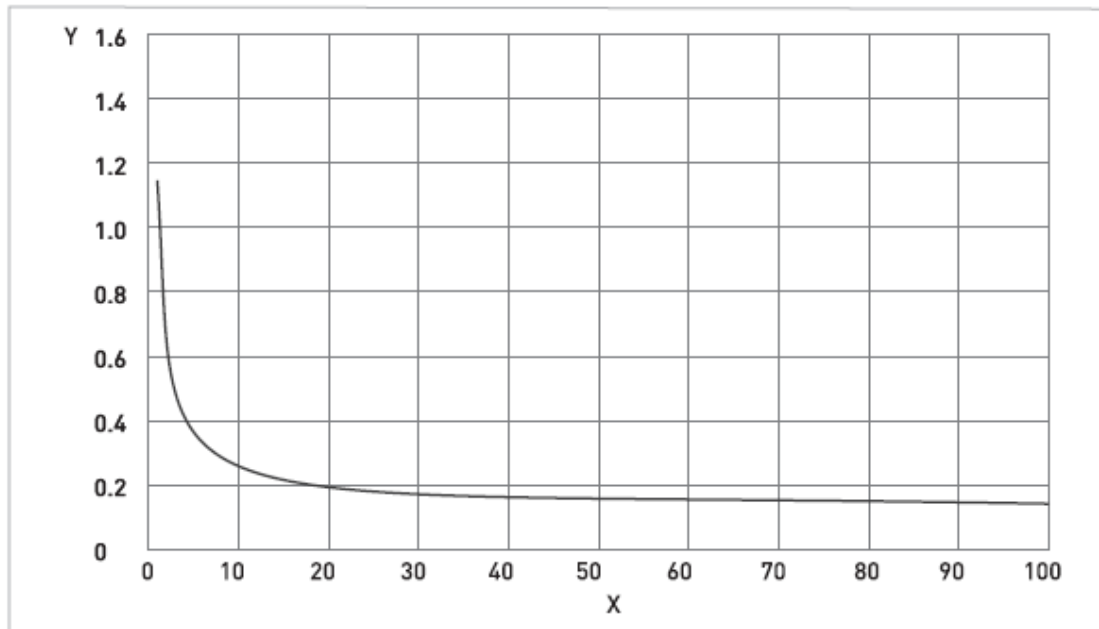


Figure 11 – Measuring Accuracy

X flow rate [%]

Y measuring error [%]

Measuring error

The measuring error is obtained from the combined effects of accuracy and zero stability.

Reference conditions

Product: Water

Temperature: +20°C / +68°F

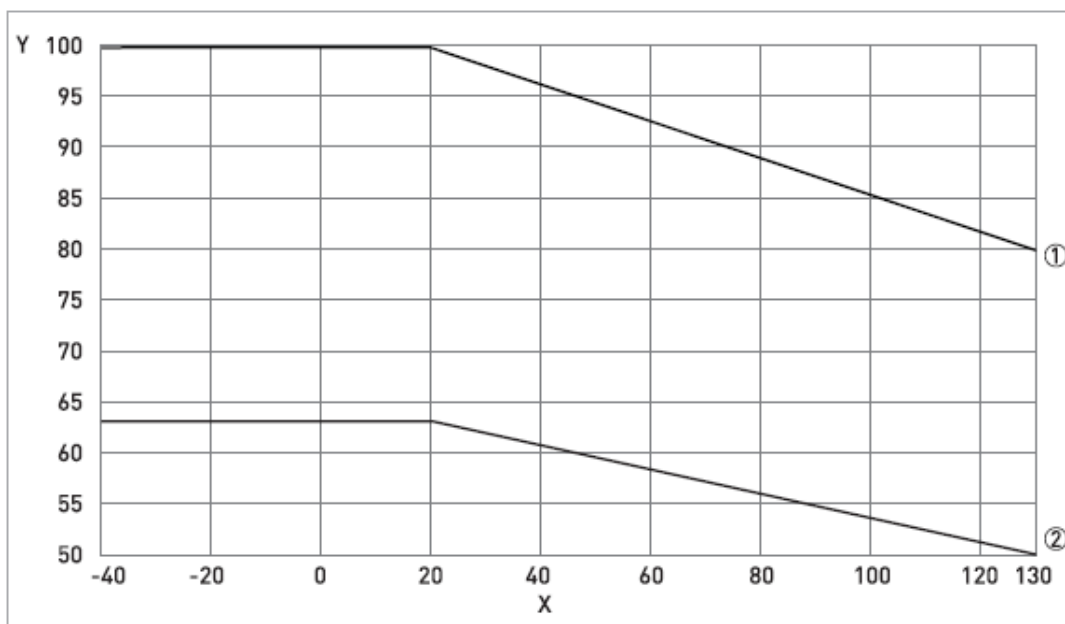
Operating pressure: 1 barg / 14.5 psig

Guidelines for Maximum Operating Pressure

Notes

- Ensure that the meter is used within its operating limits
- All hygienic process connections have a maximum operating rating of 10 barg at 130°C /145 psig at 266°F

Pressure / temperature de-rating, all meter sizes, in metric (flanged connections as per EN 1092-1)



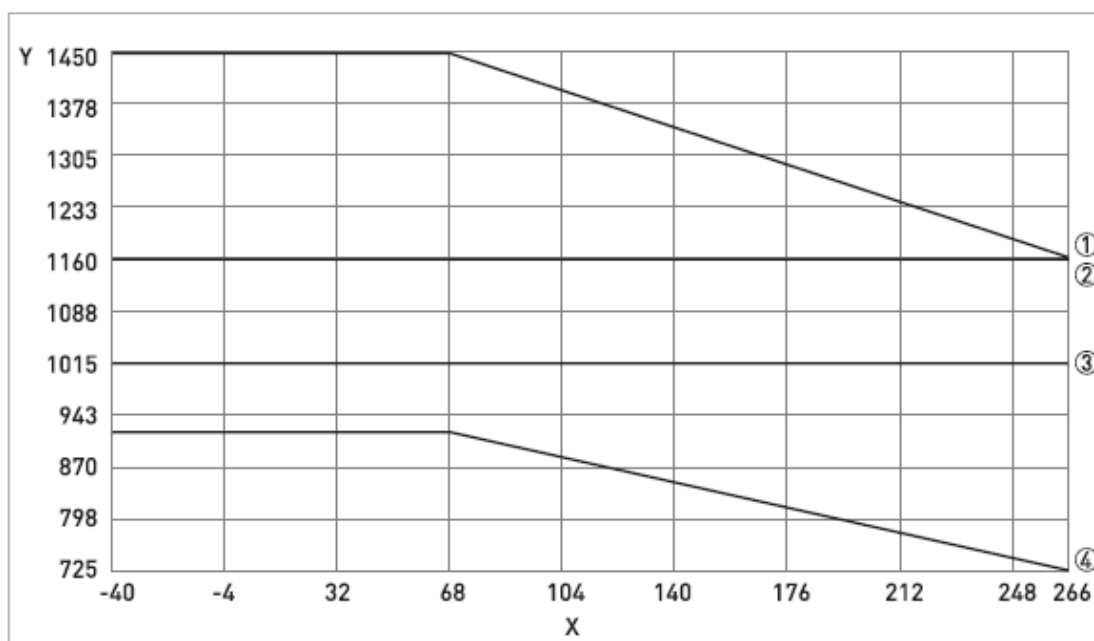
X temperature [°C]

Y pressure [barg]

(1) Measuring tubes and 100barg 316L secondary containment (PED)

(2) 63 barg 304L / 316 secondary containment (PED)

Pressure / temperature de-rating, all meter sizes, in imperial (flanged connections as per ASME B16.5)



X temperature [°F]

Y pressure [psig]

(1) Measuring tubes S15 / S25 (CRN)

(2) Measuring tubes S40 (CRN)

(3) Measuring tubes S50 (CRN)

(4) Secondary containment 304L / 316L (CRN)

Flanges

- DIN flange ratings are based on EN 1092-1 2001 table 18 (1% proof stress) material group 14EO
- ASME flange ratings are based on ASME B16.5 2003 table 2 material group 2.2
- JIS flange ratings are based on JIS 2220: 2001 table 1 division 1 material group 022a

Notes

- The maximum operating pressure will be either the flange rating or the measuring tube rating, WHICHEVER IS THE LOWER!
- The manufacturer recommends that the seals are replaced at regular intervals. This will maintain the hygienic integrity of the connection.

Installation

Intended use

This Coriolis mass flowmeter is designed for direct measurement of mass flow rate, density and temperature of the product. It also enables indirect measurement of parameters like total mass, volume flow and concentration of dissolved substances.

Responsibility for the use of the measuring devices with regard to suitability, intended use and corrosion resistance of the used materials against the measured fluid lies solely with the operator,

The manufacturer is not liable for any damage resulting from the improper use or use for other than the intended purpose.

General Installation principles

- There are no special installation requirements, but the following points should be noted:
- Support the weight of the meter especially the larger meter sizes and hygienic connections. The meter can be supported on the sensor body.
- No straight runs are required.
- Take care to avoid cavitation while using reducers and other fittings at flanges.
- Avoid extreme pipe size reductions.
- Meters are not affected by crosstalk and can be mounted in series or in parallel.
- Avoid mounting the meter at the highest point in the pipeline where air/gas can collect.

Mounting positions

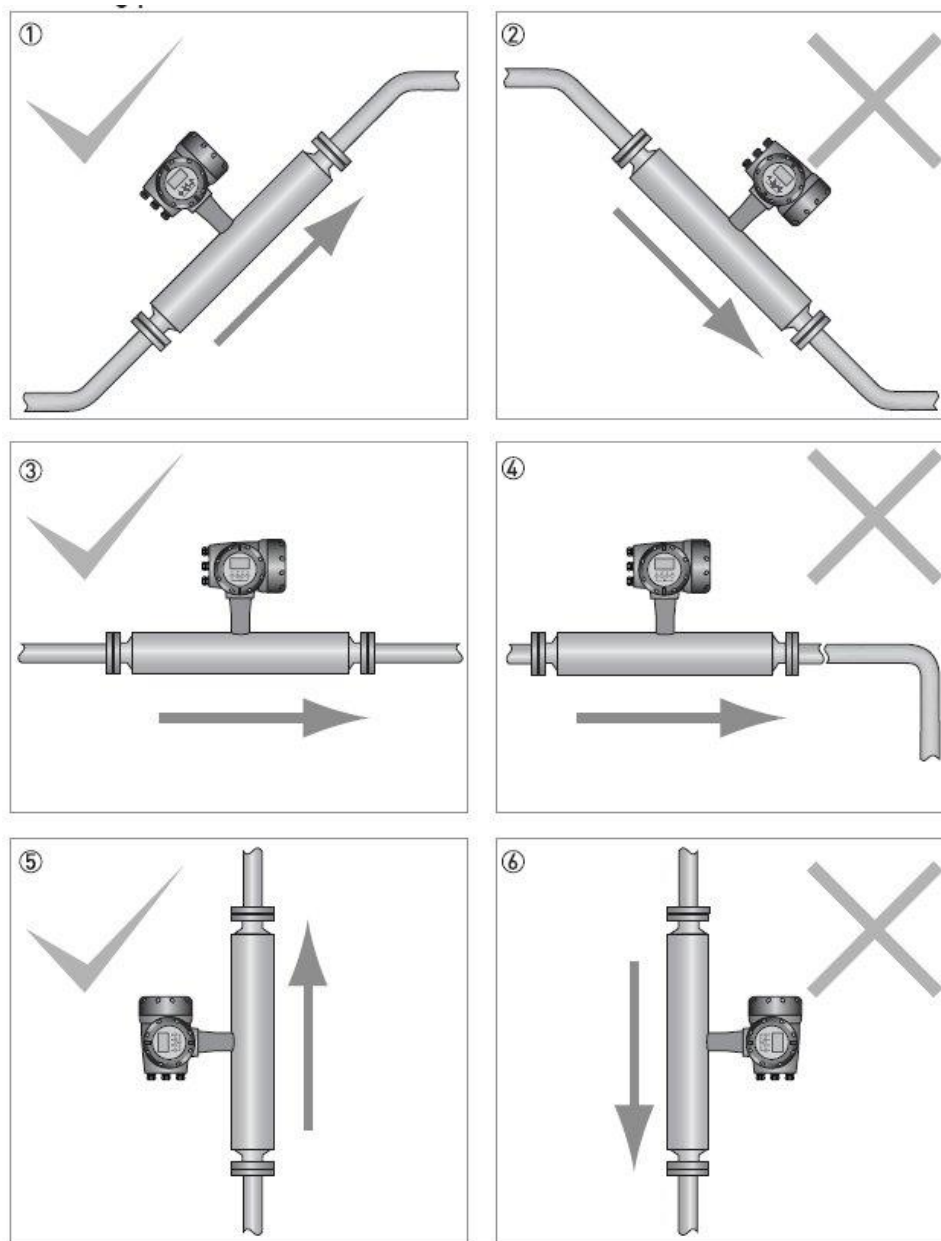


Figure 12 – Mounting Position

- (1) The meter can be mounted at an angle but it is recommended that the flow is uphill.
- (2) Avoid mounting the meter with the flow running top to bottom as it can cause siphoning. In such a scenario, install an orifice plate or a control valve downstream of the meter to maintain backpressure.
- (3) Horizontal mounting with flow left to right.
- (4) Long vertical runs after the meter should be avoided as it can cause cavitation. Install an orifice plate or a control valve downstream to maintain backpressure.
- (5) Recommended flow direction is from bottom to top for vertical installation.
- (6) Avoid mounting the meter vertically with flow running downhill. This can cause siphoning. Install an orifice plate or a control valve downstream of the meter to maintain backpressure.

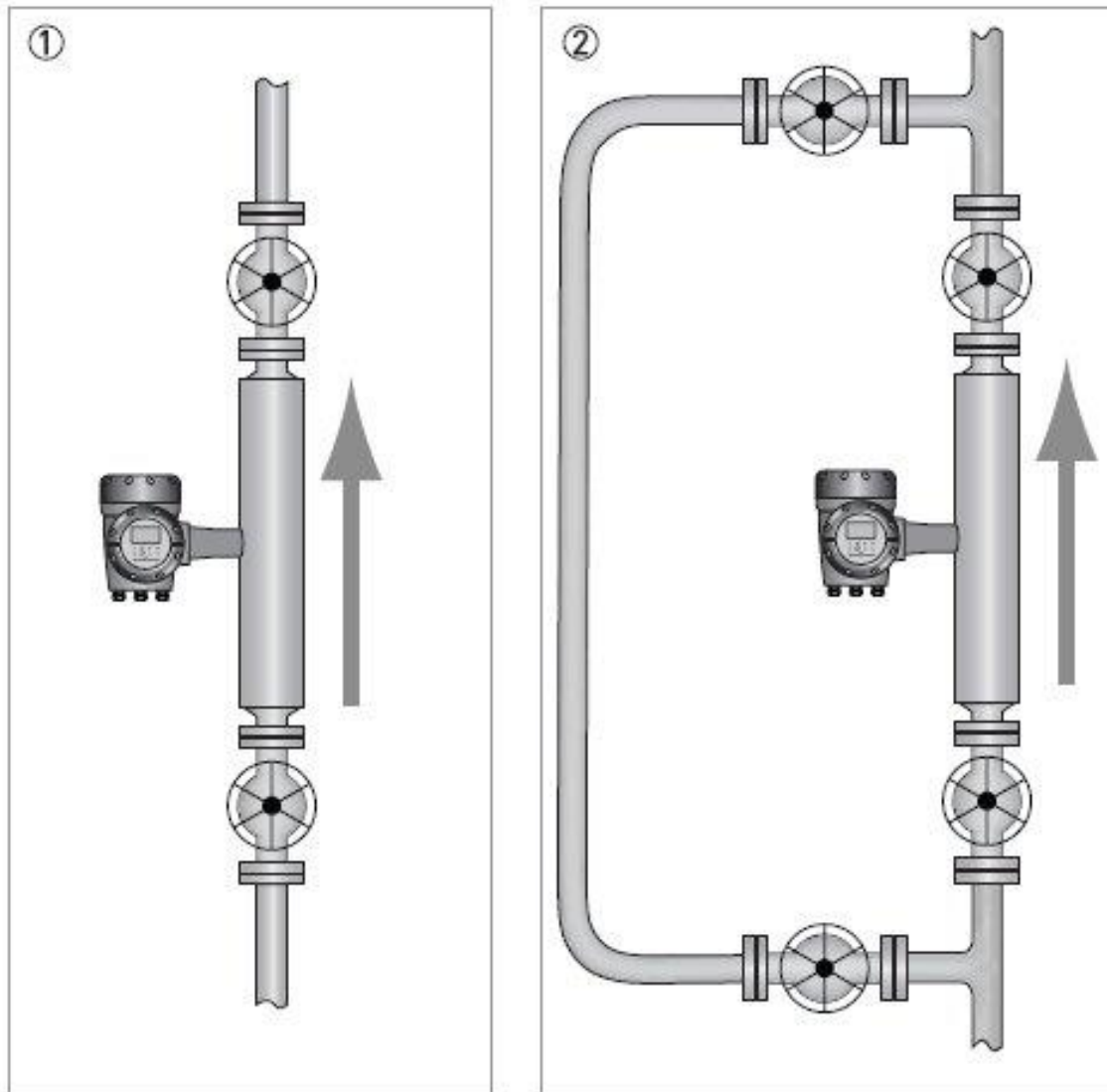
Zero Calibration

Figure 13 – Zero Calibration

- (1) Where the meter has been installed vertically, install shut-off valves either side of the meter to assist with zero calibration.
- (2) If the process cannot be stopped, install a bypass section for zero calibration.

Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

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Specifications are subject to change without notice.

For more information

To learn more about VersaFlow,
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