

VERSAFLOW VORTEX 200 Vortex flowmeter



Installation, assembly, start-up and maintenance may only be performed by appropriately trained personnel.



For use in hazardous areas, special codes and regulations are applicable which are supplied in a separate document that describes all hazardous area relevant information.



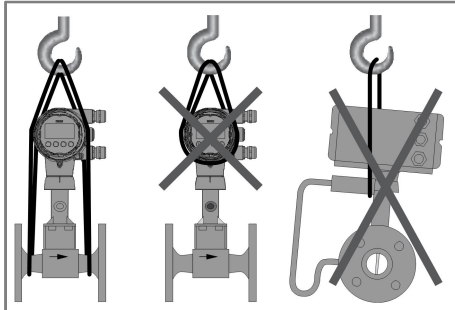
The responsibility as to the suitability, intended use and corrosion resistance of the used materials against the measured fluid of this device rests solely with the operator.



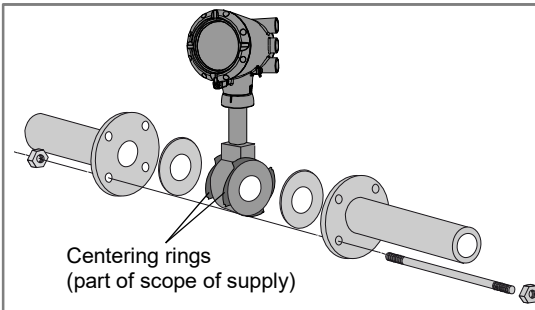
For complete documentation (manuals, supplementary manuals, data sheets and certificates) please refer to www.honeywellprocess.com.

1 Installation

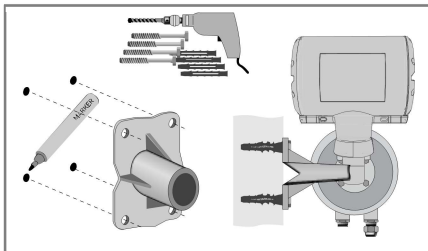
Transport



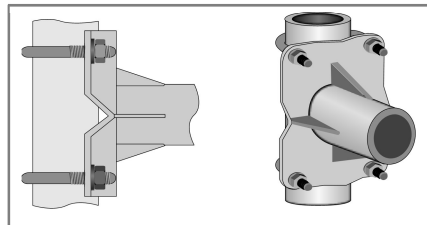
Sandwich design – centering rings



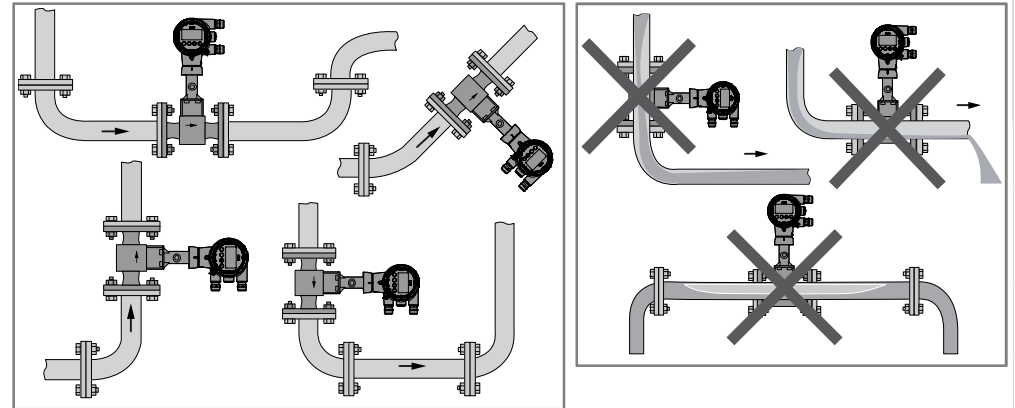
Remote: wall mounting of the field housing



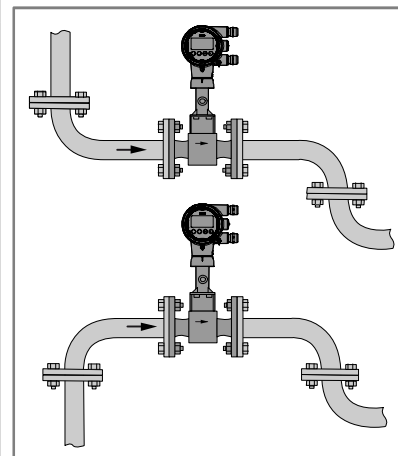
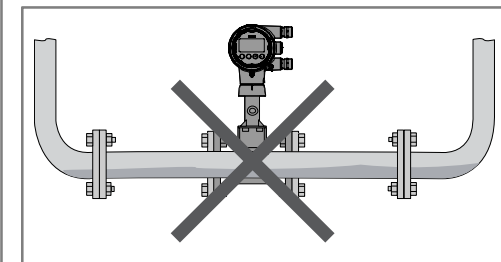
Remote: pipe mounting of the field housing



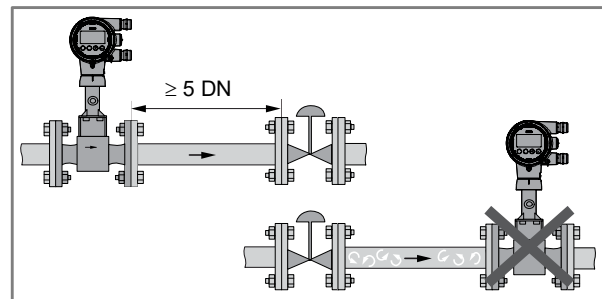
Liquids



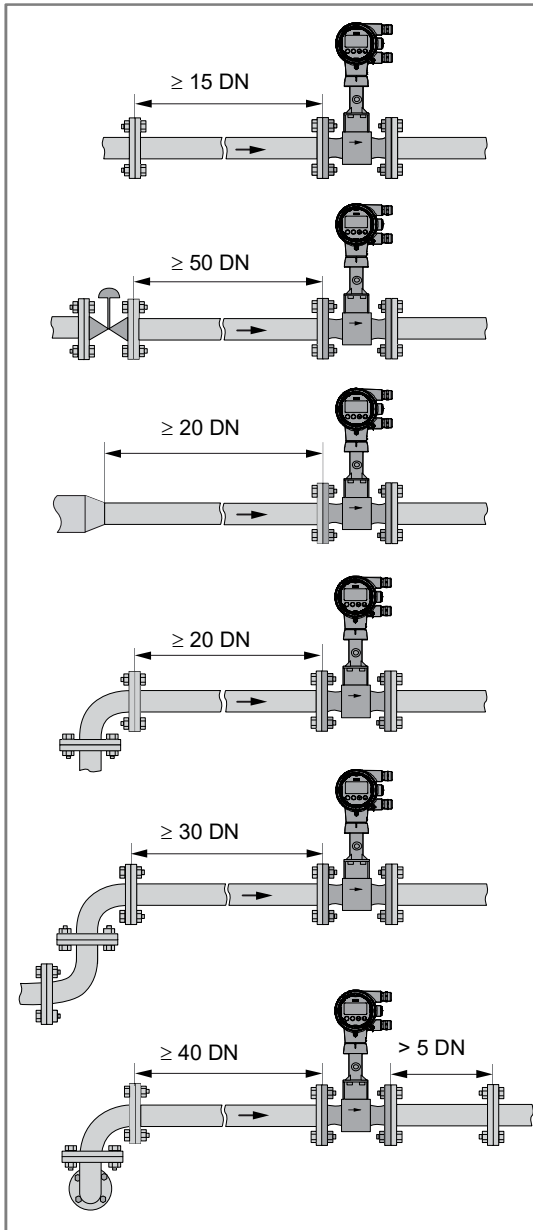
Steam & gases



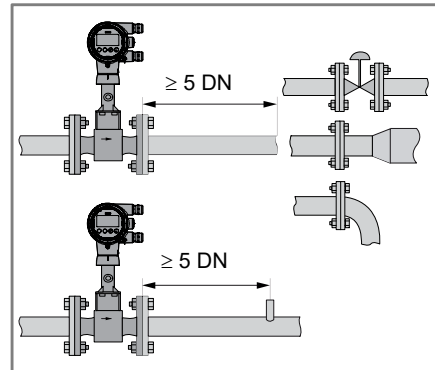
Pipelines with control valve



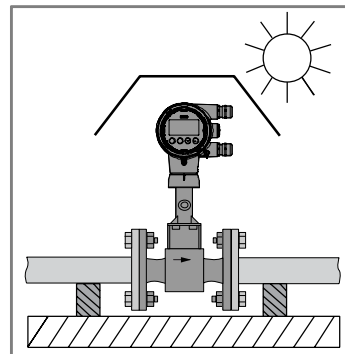
Minimum inlet section



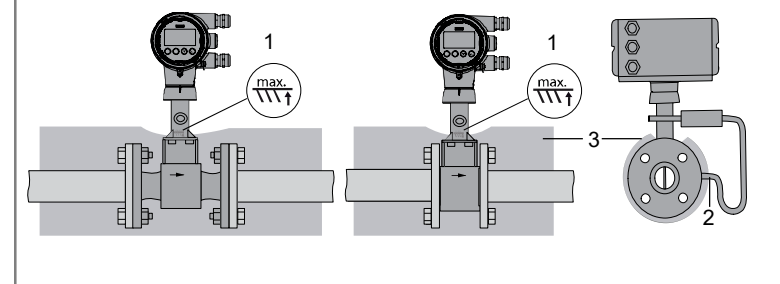
Minimum outlet section



Sunshade



Heat insulation for $T_{\text{medium}} > +160^\circ\text{C} / +320^\circ\text{F}$



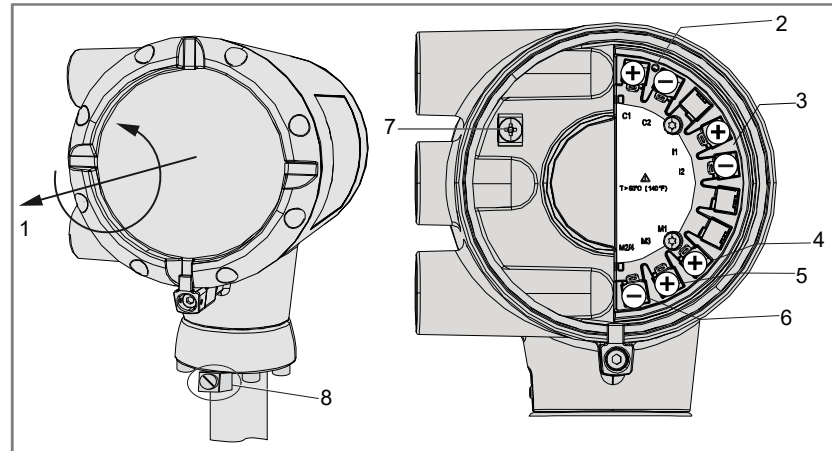
1 Marking of max. height of the insulation

2 Max. thickness of the insulation up to the bend of the pressure pipe

3 Insulation

2 Electrical connection

Connecting the signal converter



1 Open the housing cover of the electrical terminal compartment using the key

2 Signal converter supply and 4...20 mA loop

3 4...20 mA current input, - external transmitter, optional

4 Terminal M1 binary (high current)

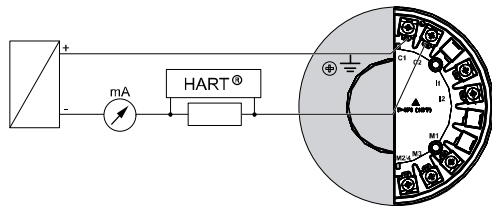
5 Terminal M3 binary (NAMUR)

6 Terminal M2/4 binary, common minus connection

7 Ground terminal in housing

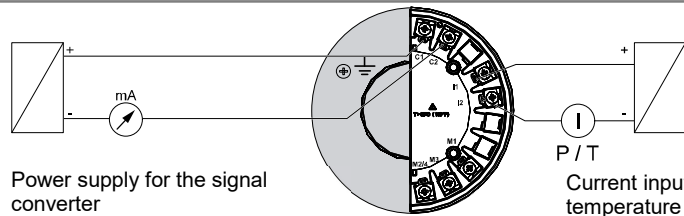
8 Ground terminal on connection piece between flow sensor and signal converter

Current output



Connect current loop 4..20 mA to terminals C1+ and C2-

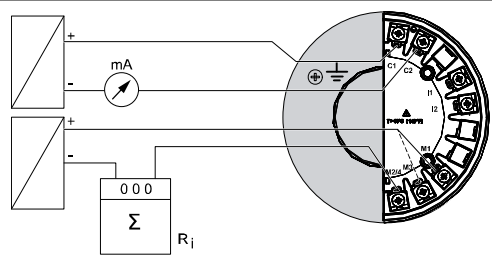
Current input



Power supply for the signal converter

Current input (I1+ and I2-) of an external temperature or pressure transmitter

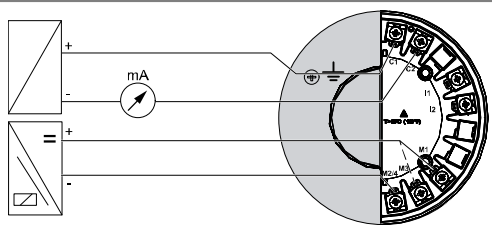
Pulse output / frequency output



The maximum frequency of both pulse output and frequency output is 1000 Hz

The connection is made between terminal M2/4 Common (-) and M1 for Hi Current (+) or M3 NAMUR (+)

Limit switch output



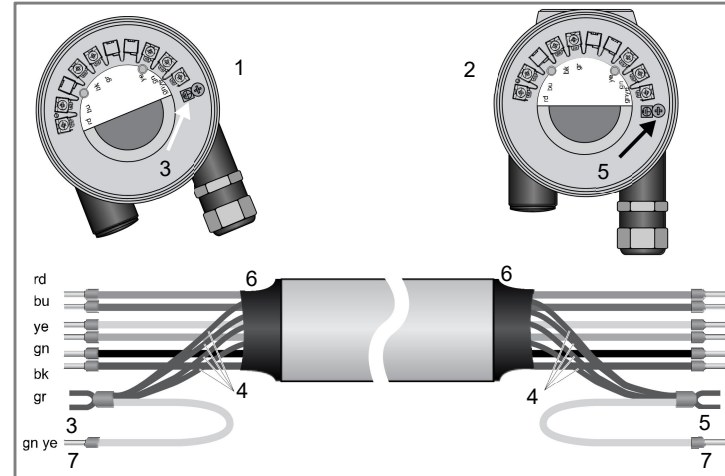
Connection NAMUR:
M2/4 (common); M3 (open collector)

Connection transistor output:
M2/4 (common); M1 (open collector)

Status output

The connection is made between terminal M2/4 Common (-) and M1 for Hi Current (+) or M3 NAMUR (+)

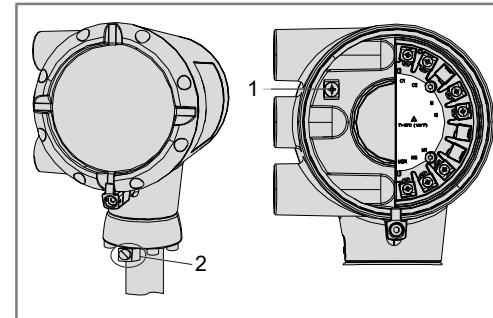
Connection of remote version



Terminal	Strand colour
rd	red
bu	blue
bk	black
gr	grey
ye	yellow
gn	green
gnye	Shielding

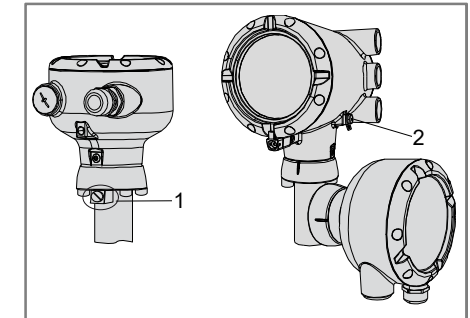
- 1 Connection terminal flow sensor
- 2 Connection terminal signal converter
- 3 Connection shielding flow sensor
- 4 Shielding (drain wire and overall shield)
- 5 Connection shielding signal converter
- 6 Heat shrink tubing
- 7 Shielding

Grounding of compact version



- 1 Ground terminal in housing
- 2 Ground terminal on connection piece between flow sensor and signal converter

Grounding of remote version

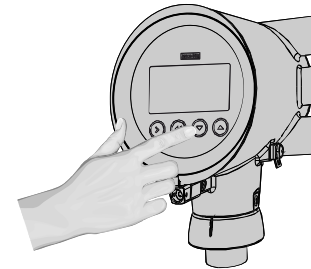


- 1 Ground terminal on flow sensor
- 2 Ground terminal on signal converter housing

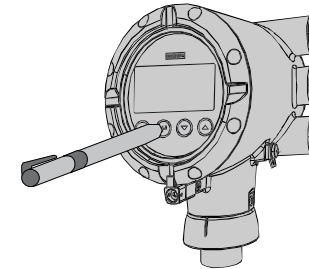
3 Quick Setup

Meas.	Menu A	Submenus		
>	↓↑	>	↓↑	
└	A Quick Setup	└		
		A1 Language		
		A2 Contrast		
		A3 Login		
		A4 Tag		
		A5 Long Tag		
		A6 Message View		
		A7 Fluid		
		A8 Medium		
		A9 Units	A9.1 Volume Flow	A9.2 Cst. Vol. Flow
			A9.3 Norm. Vol. Flow	A9.4 Cst. N.Vol.Flow
			A9.5 Mass Flow	A9.6 Cst. Mass Flow
			A9.7 Power	A9.8 Cst. Power
			A9.9 Volume	A9.10 Cst. Volume
	A9.11 Norm. Volume		A9.12 Cst. Norm. Volume	
	A9.13 Mass		A9.14 Cst. Mass	
	A9.15 Energy		A9.16 Cst. Energy	
	A9.17 Pressure		A9.18 Cst. Pressure	
	A9.19 Temperature		A9.20 Cst. Temp.	
	A9.21 Density	A9.22 Cst. Density		
	A10 Meter Type			
	A11 Application Assistant	A11.1 Liquids		
		A11.2 Saturated Steam		
		A11.3 Superheated Steam		
		A11.4 Heat Measurement		
		A11.5 Gas		
		A11.6 FAD		
	A12 Cluster Checks	Cluster 1...12		

Operation with **open** front cover



Operation with **closed** front cover
(with bar magnet)



Access level	Default password	Permissions
User	0000 (any unassigned password)	- View device information - Configure the display (C5), including changing the display language and the content of the measurement pages
Operator	0009	- All rights of "User" access level - Configure binary output (C2.2) - Configure all HART® communication options (C3) with the exception of "C3.1.1 Current Loop Mode" - Change "Operator" password (C6.2.2) – note that the new password must have three leading zeroes ("000") - Activate a different meter type
Expert	0058	- All configuration rights, especially process setup (C1) and current output (C2.1) - Change "Expert" password (C6.2.2) – note that the new password must have two leading zeroes ("00")

Contact

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