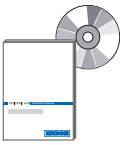
OPTIFLUX 4040 C Quick Start

Two-wire electromagnetic flowmeter

KROHNE

General safety notes



You can find additional information on the CD-ROM provided, in the manual, the data sheet, special manuals and certificates.

Installation, mounting, commissioning, and maintenance can be performed only by trained personnel.

Responsibility for suitability and intended use of this instrument rests solely with the user.

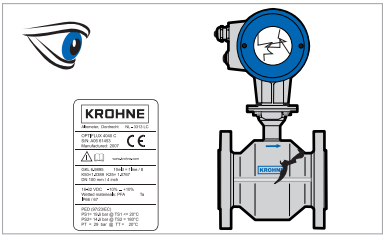
The supplier accepts no liability for inappropriate use by the customer.

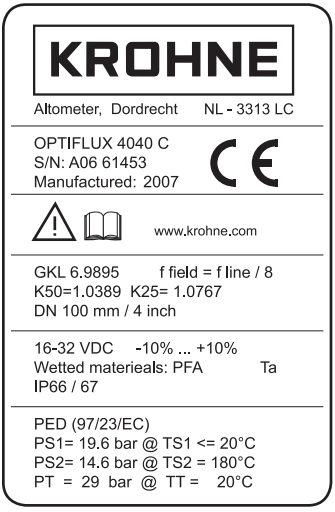
Improper installation and operation may lead to loss of warranty. Moreover, the "general terms and conditions" on the back of the bill apply, which form the basis for the sales contract.

If you have to send the device back to the manufacturer or supplier, fill out the form contained on the CD-ROM and enclose it with the device. Unless this form is completely filled out, it will unfortunately not be possible for KROHNE to perform repair or inspection.

Respect general and local electrical safety requirements

Visual check

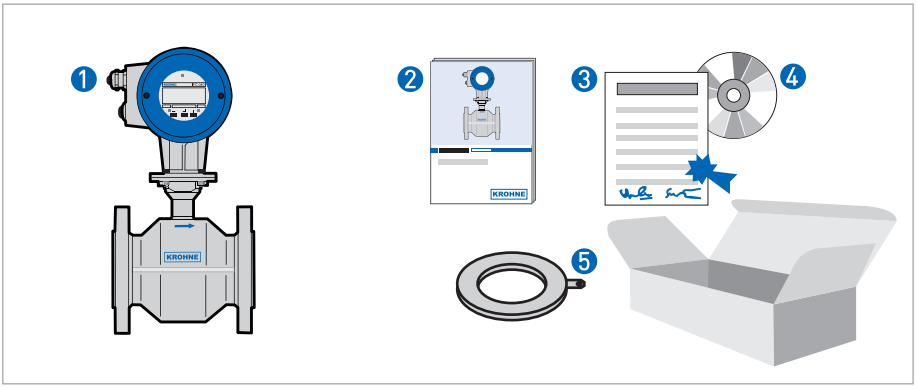




This Quick Start is applicable to software versions:

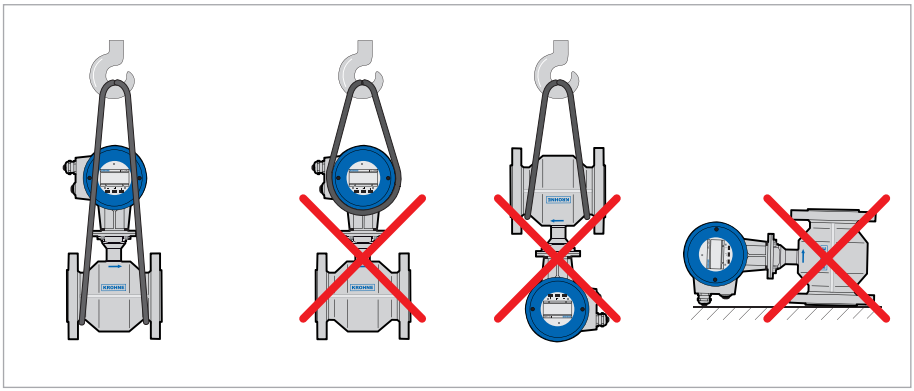
- Display / control unit: 3.19019.xx.00
- ADC module: 3.19749.xx.00
- I/O module: 3.18748.xx.00

Scope of delivery

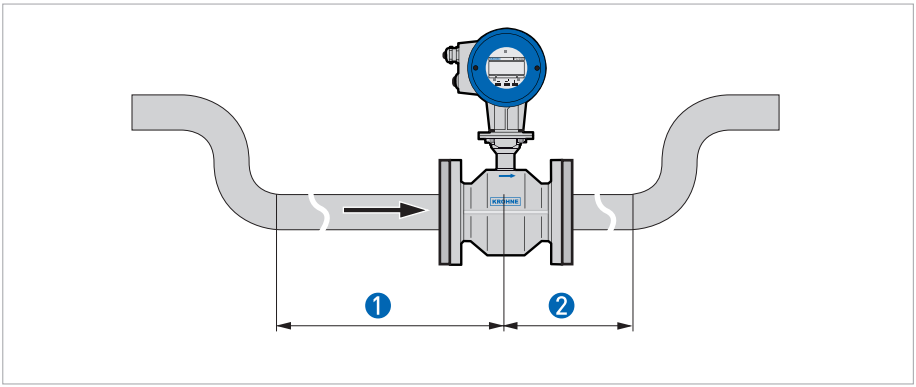


1. Flowmeter in the ordered size
2. Quick Start
3. Factory calibration report
4. CD-ROM including Handbook, Quickstart, Data Sheet
5. Grounding rings (optional)

Transport



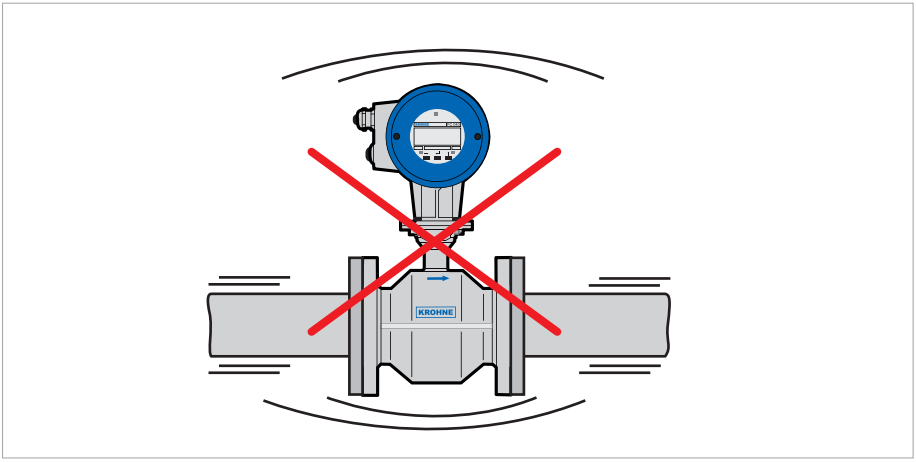
Inlet and outlet



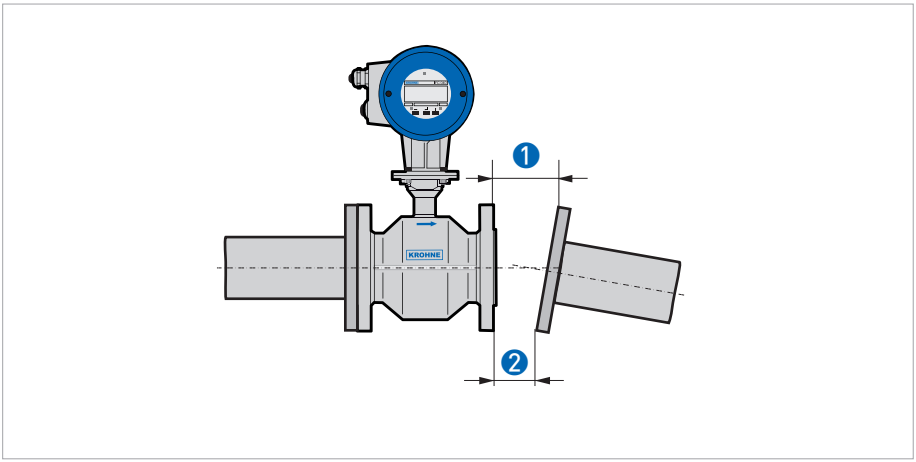
1 ≥ 5 DN

2 ≥ 2 DN

Vibration



Flange deviation

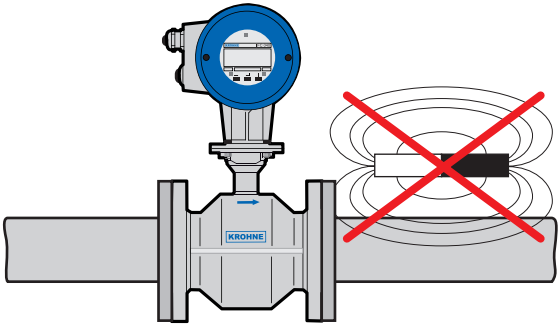


❶ L_{max}

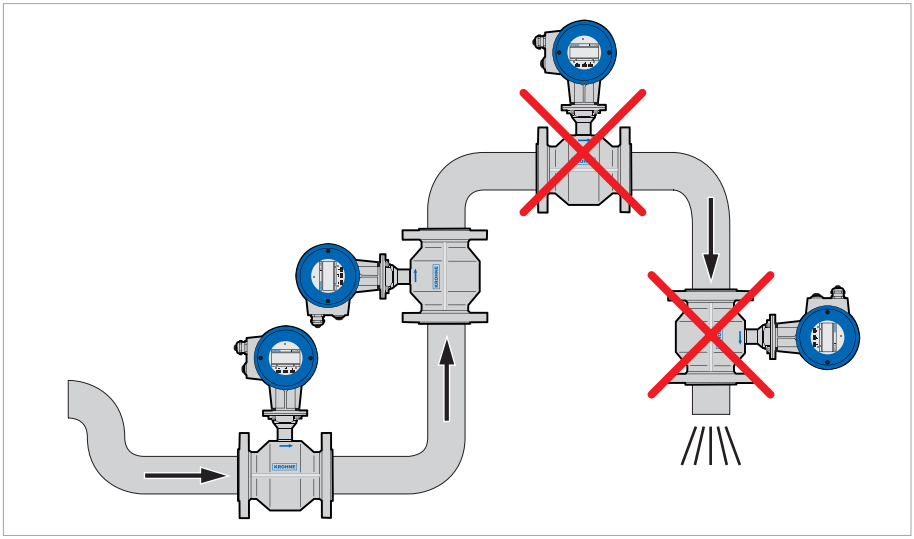
❷ L_{min}

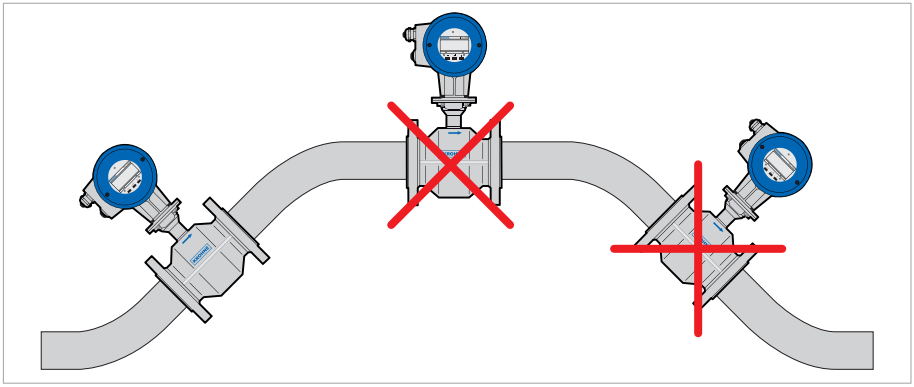
Caution!
Max. permissible deviation of pipe flange faces:
$L_{max} - L_{min} \leq 0.5$ mm

Magnetic field

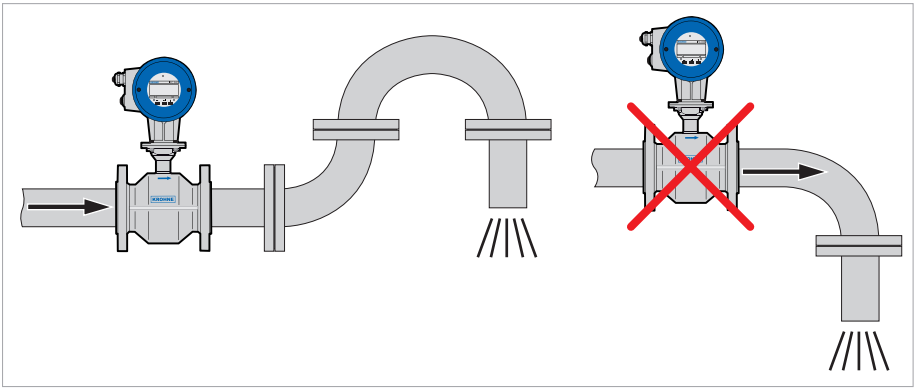


Bends

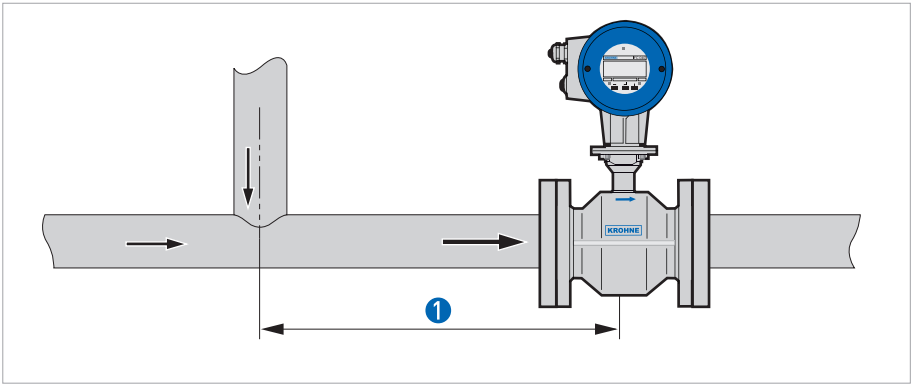




Open discharge

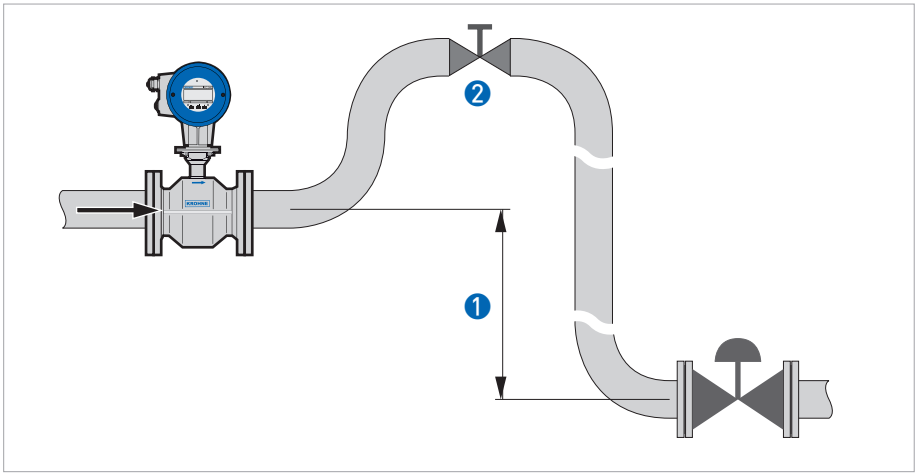


T-section



1 ≥ 10DN

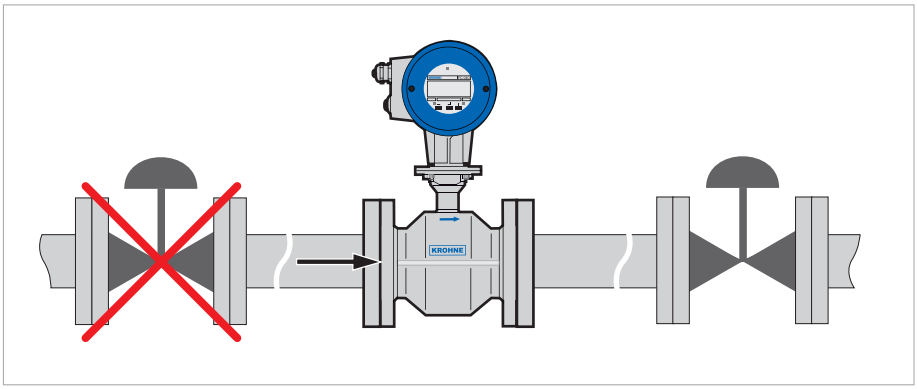
Air venting



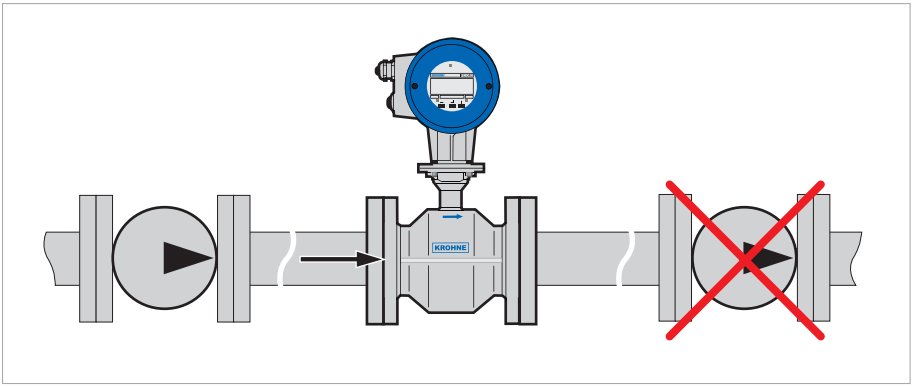
❶ ≥ 5 m

❷ air ventilation point

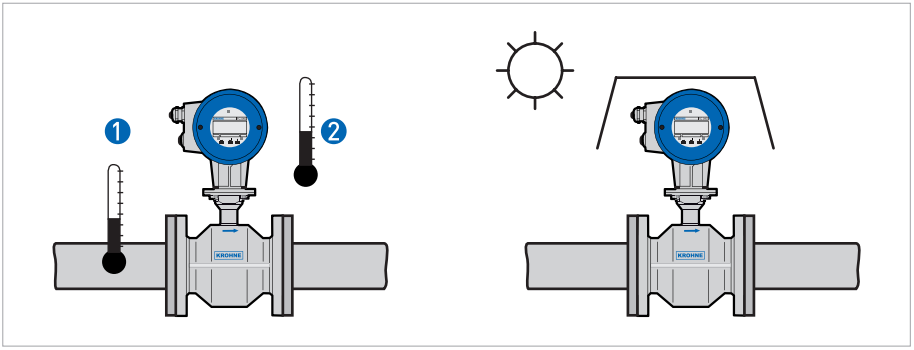
Control valve



Pump



Temperature

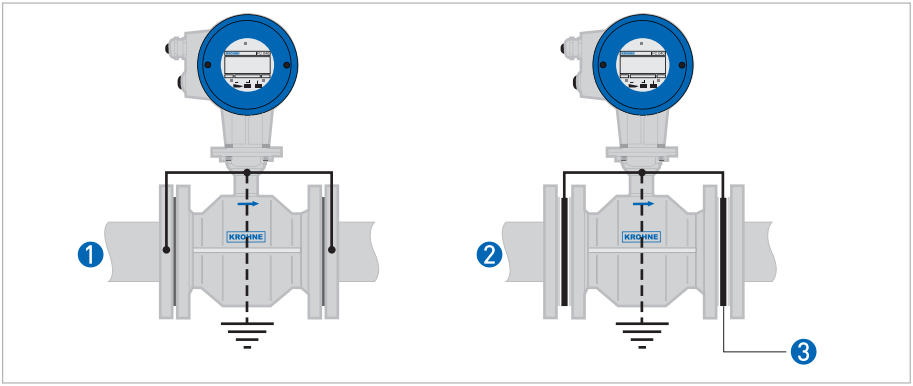


1 Process temperature, -25...140°C / -13...284°F

2 Ambient temperature, -25...60°C / -13...140°F

CAUTION!
See the Handbook on the CD-ROM for the exact maximum values.

Grounding



1. Metal pipelines, not internally coated. Grounding without grounding rings
2. Metal pipelines with internal coating, and non-conductive pipelines. Grounding with grounding rings
3. Grounding rings

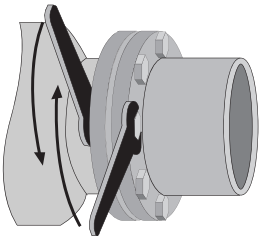
Torques and pressures

Pressure in bar and torque in Nm (EN 1092-1 and ASME B 16.5)

Size of measuring tube	Pipe flanges		Max. allowable operating pressure	Max. allowable torque
	Meter size	Rating/Class	[bar]	[Nm]
DN 10	DN 15	PN 40	≤ 40	7,6
DN 15	DN 15	PN 40	≤ 40	9,3
DN 20	DN 20	PN 40	≤ 40	16
DN 25	DN 25	PN 40	≤ 40	22
DN 50	DN 50	PN 40	≤ 40	55
DN 65	DN 65	PN 16	≤ 16	51
DN 80	DN 80	PN 40	≤ 40	47
DN 100	DN 100	PN 16	≤ 16	39
DN 125	DN 125	PN 16	≤ 16	53
DN 150	DN 150	PN 16	≤ 16	68
3/8"	1/2"	150 lb	≤ 19	3,5
1/2"	1/2"	150 lb	≤ 19	3,5
3/4"	3/4"	150 lb	≤ 19	4,8
1"	1"	150 lb	≤ 19	6,7
2"	2"	150 lb	≤ 19	24
3"	3"	150 lb	≤ 16	43
4"	4"	150 lb	≤ 16	34
6"	6"	150 lb	≤ 16	61

Max. torque:

- Step 1: approx. 50% of max. torque
- Step 2: approx. 80% of max. torque
- Step 3: 100% of max. torque given in table before



Limits / vacuum load
PFA liner: No limits for vacuum load.
PTFE liner: see manual on CD-Rom.

Menu

Menu concept

Measuring mode							Data
	→ ↵	**1.0**	→ ↵	**Operation**		→ ↵	
				1.1	Full scale		
				1.2	Time constant		
				1.3	L.F. Cutoff		
				1.4	Display		
				1.5	Current output		
				1.6	Pulse output		
				1.7	Status output		
		2.0		**Test**			
				2.1	Test Q		
				2.2	Hardware info		
		3.0		**Installation**			
				3.1	Language		
				3.2	Flow meter		
				3.3	Zero set		
				3.4	Application		
				3.5	Hardware		
				3.6	Hart		
		4.0		**Reset**			
				4.1	Error reset		
				4.2	Counter reset		
		↑		↑			→ ↵

Contact

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