

Special Documentation

Promag P 10, 300, 500

Inlet and outlet runs 0 x DN

About this document

Document function

This manual is Special Documentation and does not replace the Operating Instructions included in the scope of supply. It is a part of the Operating Instructions and contains additional information on the "Mounting/installation, inlet and outlet runs" section.

Associated documentation

This Special Documentation is an integral part of the following Operating Instructions:

Promag P	10	300	500
HART	BA02069D	BA01393D	BA01399D
Modbus RS485	BA02072D	BA01395D	BA01402D
EtherNet/IP	–	BA01717D	BA01721D
PROFIBUS DP	–	BA01853D	BA01867D
PROFIBUS PA	–	BA01397D	BA01405D
PROFINET	–	BA01719D	BA01724D
PROFINET with Ethernet-APL	–	BA02105D	BA02102D
FOUNDATION Fieldbus	–	BA01478D	BA01480D

Inlet and outlet runs

Depending on the device design and the installation location, inlet and outlet runs may not be necessary or they can be shorter compared with a standard device.



Maximum measured error

When the device is installed with the inlet and outlet runs described in this Special Documentation, a maximum measured error of $\pm 0.5\%$ of the reading ± 1 mm/s (0.04 in/s) can be guaranteed.

Devices and possible order options

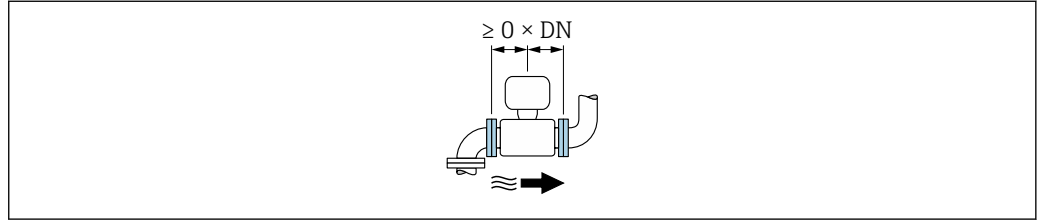
Order code for "Electrodes"			Promag P		
Option	Description	Design	10	300	500
J	1.4435/316L, pointed for 0 x DN inlet/outlet runs	Full Bore ¹⁾	X	X	X
K	Alloy C22, pointed for 0 x DN inlet/outlet runs		X	X	X
L	1.4435/316L for 0 x DN inlet/outlet runs		X	X	X
M	Alloy C22 for 0 x DN inlet/outlet runs		X	X	X
N	Tantalum for 0 x DN inlet/outlet runs		–	X	X
P	Platinum for 0 x DN inlet/outlet runs		–	X	X
Q	Titanium for 0 x DN inlet/outlet runs		–	X	X

1) "Full Bore" stands for the full diameter of the measuring tube. There is no pressure loss with a full diameter.

Installation without inlet and outlet runs

Installation before or after bends

Installation without inlet and outlet runs is possible: devices with the order code for "Electrodes", option J, K, L, M, N, P and Q.



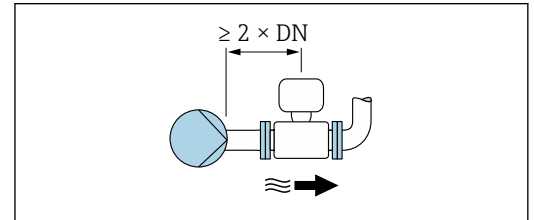
Installation downstream of pumps

Install devices after pumps to avoid negative pressure.

Installation without inlet and outlet runs is possible: devices with the order code for "Electrodes", option J, K, L, M, N, P and Q.



In the case of devices with a nominal diameter of DN 450 to 600 mm (18 to 24 in), an inlet run of only $\geq 2 \times DN$ must be taken into consideration.



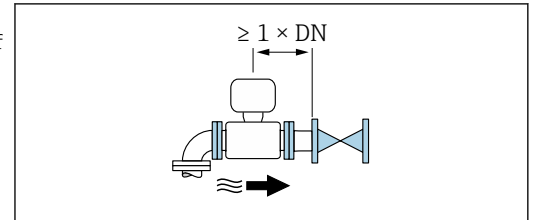
Installation upstream of valves

Ideally, devices should be installed upstream of valves in order to avoid turbulence in the measuring tube.

Installation without inlet and outlet runs is possible: devices with the order code for "Electrodes", option J, K, L, M, N, P and Q.



In the case of devices with a nominal diameter of DN 450 to 600 mm (18 to 24 in), an outlet run of only $\geq 1 \times DN$ must be taken into consideration.

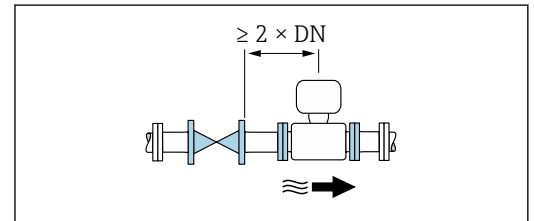


Installation downstream of valves

Installation without inlet and outlet runs is possible if the valve is 100% open during operation: devices with the order code for "Electrodes", option J, K, L, M, N, P and Q.



In the case of devices with a nominal diameter of DN 450 to 600 mm (18 to 24 in), an inlet run of only $\geq 2 \times DN$ must be taken into consideration if the valve is 100% open during operation.





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