



VMI07

BEST
SELLER

VMI20

Your advantages

Series

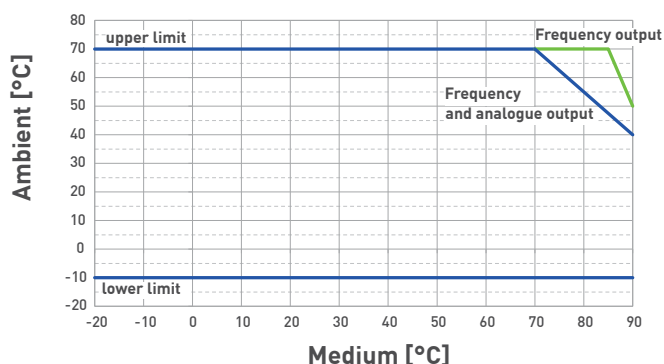
VMI

- Robust metal housing for high temperature and pressure
- Wide measuring range 1:60 (1:50) and high measuring accuracy
- Frequency or analogue and frequency output
- Delivery including works calibration certificate

Type	VMI07	VMI10	VMI20
Characteristics			
Nominal diameter	DN 7	DN 10	DN 20
Process connection	G½-ISO 228 male	G½-ISO 228 male or G¾-ISO 228 male	G 1-ISO 228 male
Inner diameter	4 x 10 mm	10 mm	20 mm
Flow range	0.5...30 l/min	1...60 l/min	5...250 l/min
Accuracy*	±1.5 % of reading ±0.3 % of range		
Repeatability*	1 %		
Response time	<500 ms		
Signal output starting from	0.4 l/min	0.9 l/min	4 l/min
Medium / min. conductivity of medium	Water and other conductive liquids / 50 µS/cm		
Medium temperature	-20...90 °C		
Ambient temperature	Min. -10 °C, max. see figure temperature limits		
Pressure rating	PN 16		
Flow indication	LED green, flow proportional flashing		
Degree of protection EN 60529	IP65 and IP67 (with attached cable socket)		
Electrical data			
Electrical connection	Plug connector M12 x 1		
Power supply	24 VDC (±10 %)		
Current consumption	≤ 150 mA		

* Test conditions: Water 23 °C at 150 ±100 µS/cm; standard pulse rate

Temperature limits



Three different versions available:

- Frequency output (1)
- Analogue output 4...20 mA and frequency output (2)
- Analogue output 0...10 V and frequency output (3)

Frequency output (1)	VMI07	VMI10	VMI20
Pulse rate → Optional*	1000 pulses/l 1...2000 pulses/l	500 pulses/l 1...1000 pulses/l	100 pulses/l 1...200 pulses/l
Resolution → Optional*	1.0 ml/pulse 1000...0.5 ml/pulse	2.0 ml/pulse 1000...1 ml/pulse	10 ml/pulse 1000...5 ml/pulse
Signal shape	Square wave signal, pulse duty ratio 50:50, Push-Pull		
Signal current	≤ 100 mA, current limited		

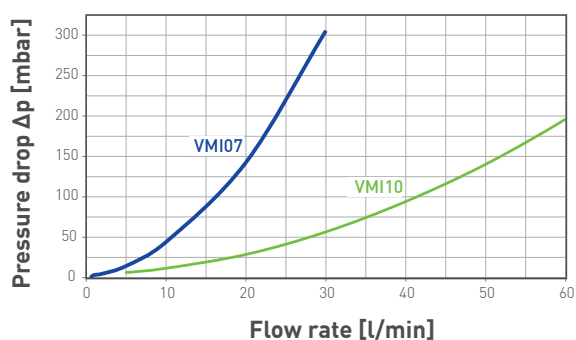
Analogue output 4...20 mA (2)	VMI07	VMI10	VMI20
Corresponds to flow rate**	0...20 l/min or 0...30 l/min	0...40 l/min or 0...60 l/min	0...200 l/min or 0...250 l/min
Max. Burden	250 Ω against GND		

Analogue output 0...10 V (3)	VMI07	VMI10	VMI20
Corresponds to flow rate**	0...20 l/min or 0...30 l/min	0...40 l/min or 0...60 l/min	0...200 l/min or 0...250 l/min

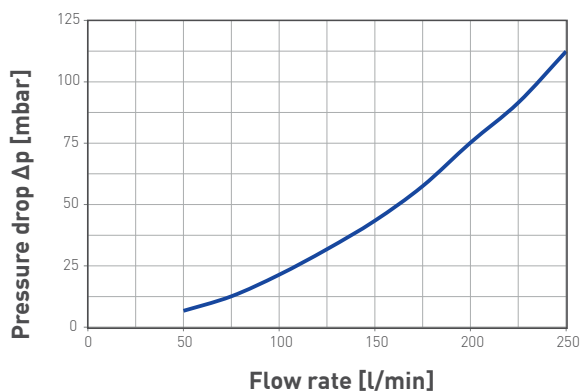
* Factory configurable

** Other ranges available on request

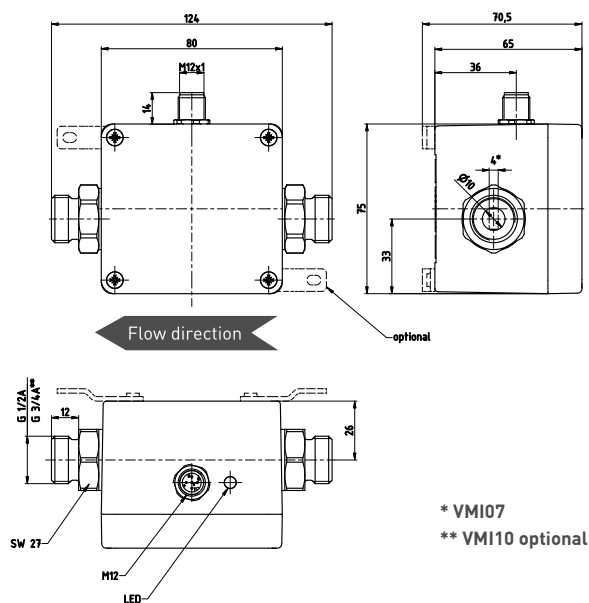
Typical pressure drop VMI07 / VMI10



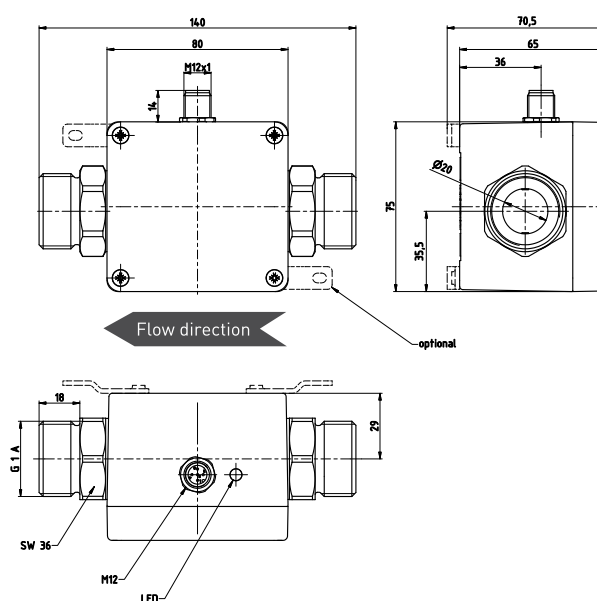
Typical pressure drop VMI20



VMI07 / VMI10



VMI20



Materials

Not in contact with fluid

Housing

Casted aluminium

In contact with fluid

Electrodes

Stainless steel 1.4571

Process connections

Stainless steel 1.4571

Measuring pipe

PEEK-GF30

O-rings

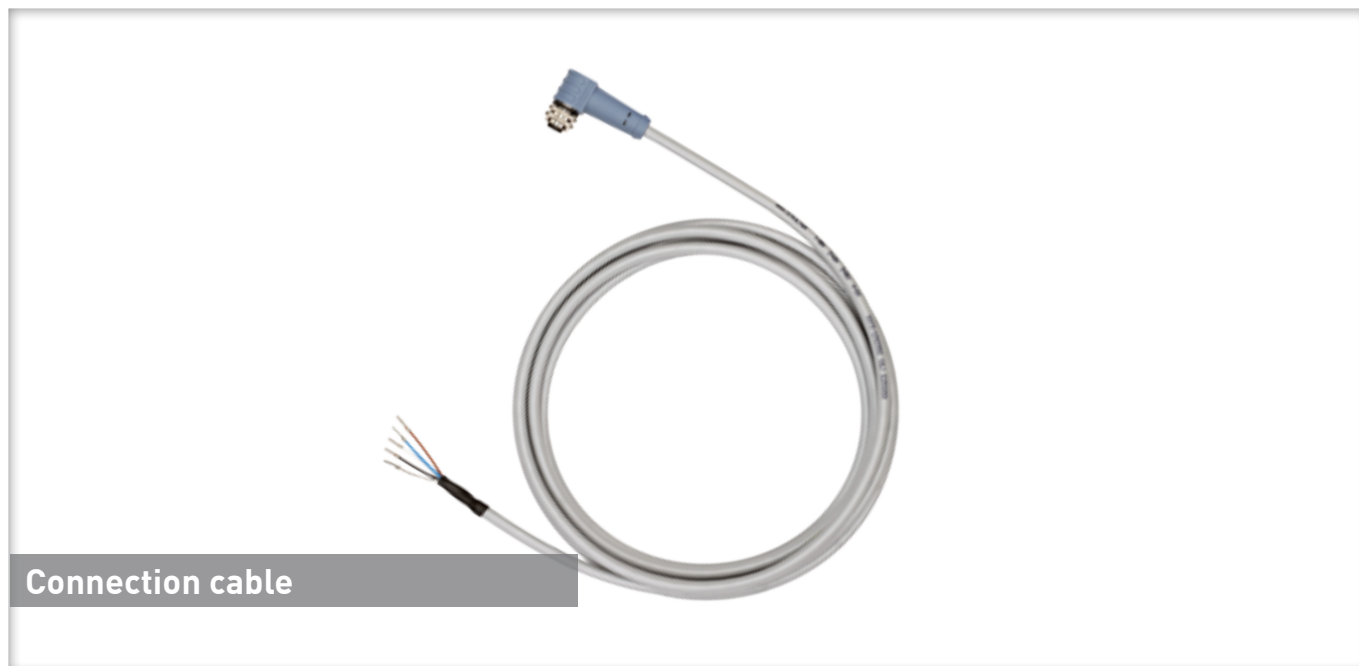
EPDM / FKM optional

Order code						
Type						
VMI		VMI				
Nominal diameter / Process connection						
DN 07 / G½ male thread						
Output signals		corresponds to flow rate				
Frequency signal				07A		0YGX000
Frequency signal and analogue signal 4...20 mA		0...20 l/min		07A		0YGI005
		0...30 l/min		07A		0YGI000
Frequency signal and analogue signal 0...10 V		0...20 l/min		07A		0YGU005
		0...30 l/min		07A		0YGU000
DN 10 / G½ male thread						
Output signals		corresponds to flow rate				
Frequency signal				10A		0YGX000
Frequency signal and analogue signal 4...20 mA		0...40 l/min		10A		0YGI005
		0...60 l/min		10A		0YGI000
Frequency signal and analogue signal 0...10 V		0...40 l/min		10A		0YGU005
		0...60 l/min		10A		0YGU000
DN 10 / G¾ male thread						
Output signals		corresponds to flow rate				
Frequency signal				10E		0YGX000
Frequency signal and analogue signal 4...20 mA		0...40 l/min		10E		0YGI005
		0...60 l/min		10E		0YGI000
Frequency signal and analogue signal 0...10 V		0...40 l/min		10E		0YGU005
		0...60 l/min		10E		0YGU000
DN 20 / G1 male thread						
Output signals		corresponds to flow rate				
Frequency signal				20A		0YGX000
Frequency signal and analogue signal 4...20 mA		0...200 l/min		20A		0YGI005
		0...250 l/min		20A		0YGI000
Frequency signal and analogue signal 0...10 V		0...200 l/min		20A		0YGU005
		0...250 l/min		20A		0YGU000
Mounting straps						
Without (standard)				SS		
With mounting straps				LS		
Material O-rings						
EPDM (Standard)					0	
FKM (Option)					1	
Example order number				VMI	07A	SS 0 0YGX000

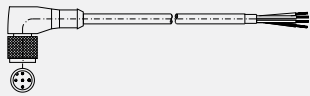
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Type	Nominal diameter		Order number			
VMI	DN 7	G½ male thread, frequency signal without mounting straps, material O-rings: EPDM	VMI	07A	SS	0 0YGX000
	DN 10		VMI	10A	SS	0 0YGX000
	DN 20		VMI	20A	SS	0 0YGX000

Accessories



Connection cable

Order code			
Accessories		Length	Order number
	Connection cable with 4-pin cable socket M12 x 1, angle type moulded lead, sheathing material PUR, shielded, (Tmax = 80 °C) UL-approval	3 m	XVT2053
		5 m	XVT2009
		10 m	XVT2070

