

Proportional pressure regulators VPPM

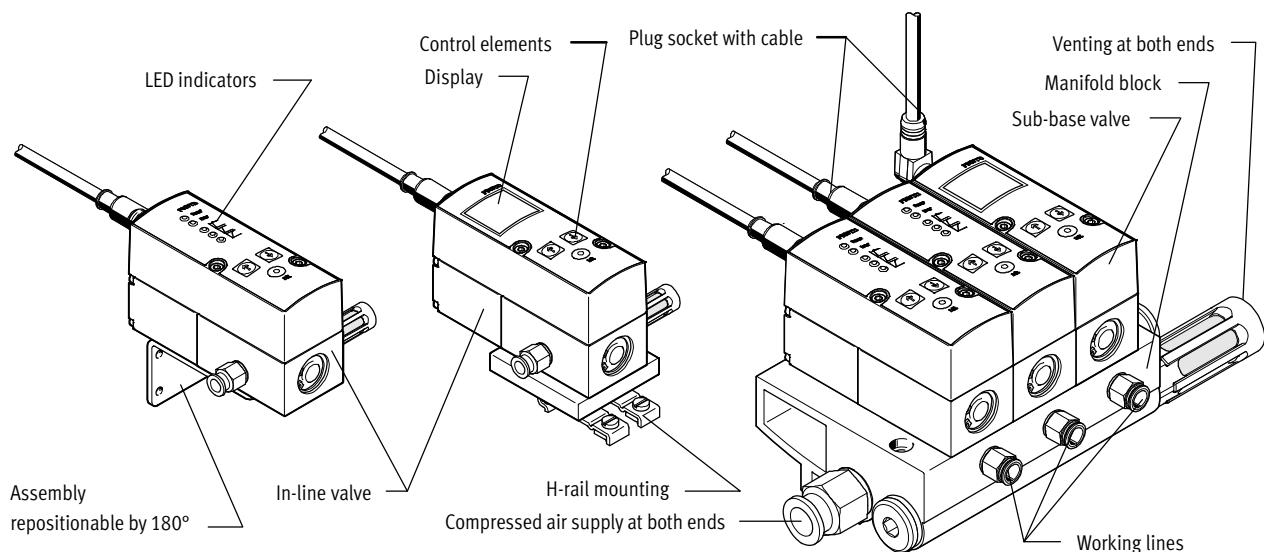
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Proportional pressure regulators VPPM

Key features

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Innovative

- Multi-sensor control (cascade control)
- Diagnostics
- Choice of regulation characteristics
- Temperature compensated
- High dynamic response
- High repetition accuracy
- Modular product system
- IO-Link, for direct connection to a higher-level IO-Link/I-Port master

Versatile

- Individual valves (in-line valve)
- Manifold valves (sub-base/flange valve)
- Various user interfaces
 - LED indicators
 - LCD display
 - Adjustment/selection buttons
- A choice of valves with different pressure ranges
- Pressure range can be modified on the valve
- Choice of different setpoint specifications
 - Current input
 - Voltage input

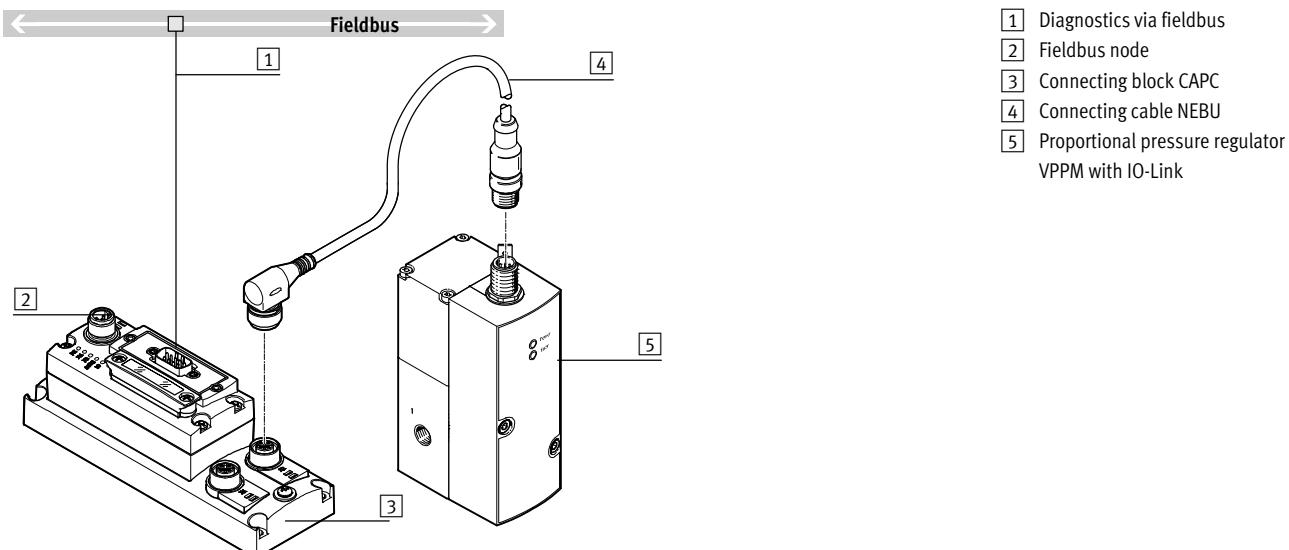
Reliable

- Integrated pressure sensor with independent output
- Open circuit monitoring
- Pressure is maintained if the controller fails

Easy to mount

- Manifold block
- H-rail mounting
- Individually via mounting bracket
- QS fittings

Overview, VPPM IO-Link

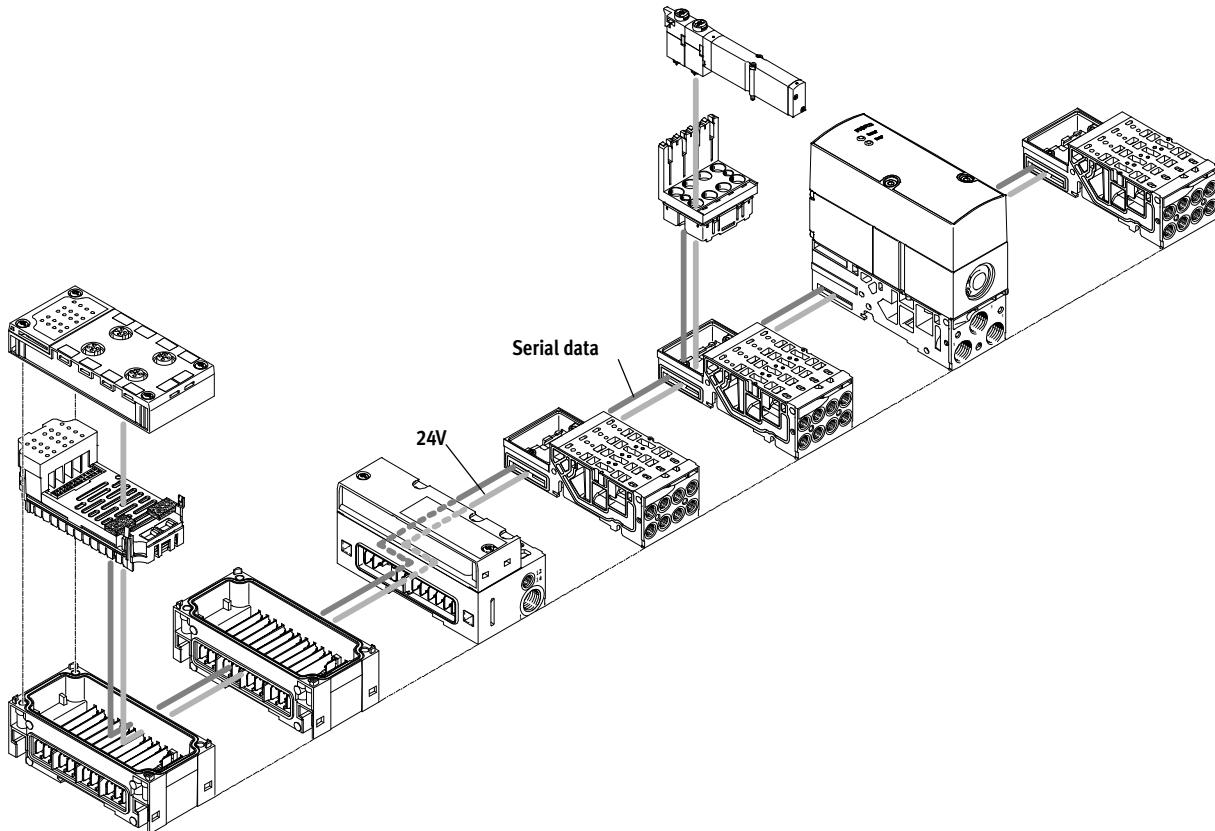


Proportional pressure regulators VPPM

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Key features – VPPM on valve terminal

VPPM on the valve terminal MPA-S



Innovative

- Multi-sensor control
- Diagnostics via bus
- Choice of regulation characteristics
- High dynamic response
- 2 accuracy levels

Versatile

- For all common protocols
- As an individual pressure regulator
- As a pressure zone regulator
- Choice of 3 valves with different pressure ranges
- 3 pressure ranges (presets) can be set via the bus
- Internal or external compressed air supply possible

Reliable

- Long service life
- LED display for the operating status
- Pressure is maintained if the supply voltage fails
- Fast troubleshooting thanks to LEDs on the valves and diagnostics via fieldbus
- Ease of servicing through replaceable valves

Easy to mount

- Simple replacement of the valves
- Tested units
- Easy extension of the valve terminal

Note

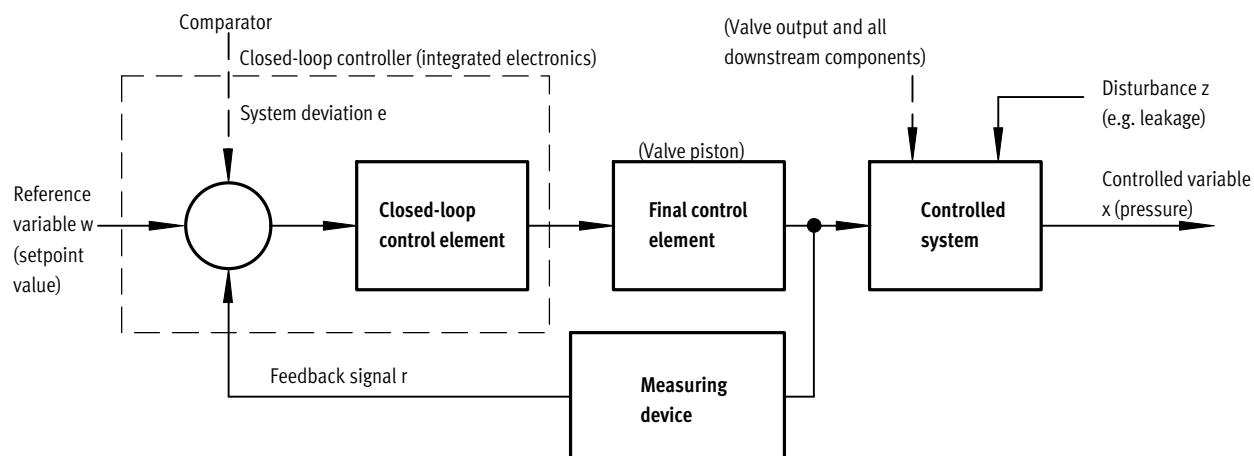
More information on the VPPM valves for MPA-S
→ mpas

Proportional pressure regulators VPPM

Key features – Control circuit

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Layout of a control circuit



Layout

The figure shows a closed-loop control circuit. The reference variable w (setpoint value, e.g. 5 volts or 8 mA) initially acts on a comparator. The measuring device sends the controlled variable x value (actual value, e.g. 3 bar) to the comparator as a feedback signal r . The closed-loop control element detects the system

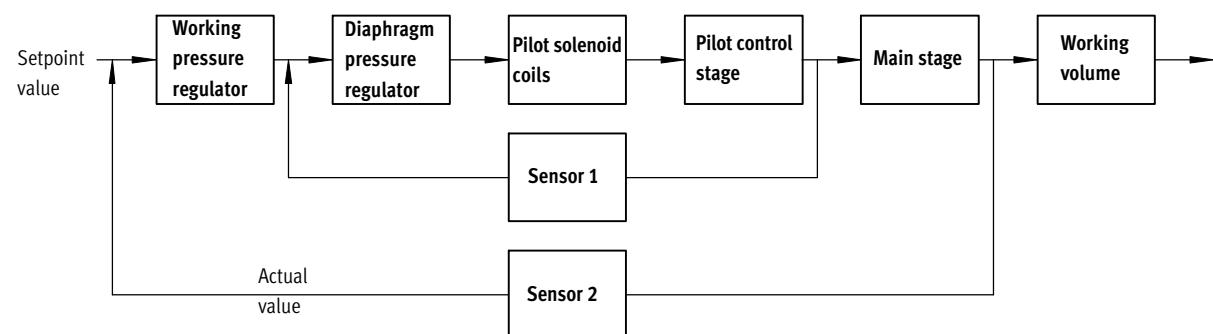
deviation e and actuates the final control element. The output of the final control element acts on the controlled system. The closed-loop control element thus attempts to compensate for the difference between the reference variable w and the controlled variable x by using the final control element.

Method of operation

This process runs continuously so changes in the reference variable are always detected. However, a system deviation will also appear if the reference variable is constant but the controlled variable changes. This happens when the flow through the valve changes in response to a switching action, a cylinder movement

or a change in load. The disturbance variable z will also cause a system deviation. An example of this is when the pressure drops in the air supply. The disturbance variable z acts on the controlled variable x unintentionally. In all cases, the regulator attempts to readjust the controlled variable x to the reference variable w .

Multi-sensor control (cascade control) of the VPPM



Cascade control

Unlike conventional direct-acting regulators, with multi-sensor control several control circuits are nested inside each other. The overall controlled

system is divided into smaller sub-controlled circuits that are easier to control for the specific task.

Control precision

Multi-sensor control significantly improves control precision and dynamic

response in comparison with single-acting regulators.

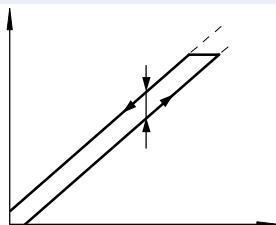
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Key features – Control circuit

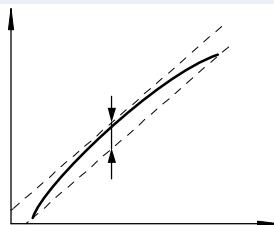
Terms related to the proportional pressure regulator

Hysteresis



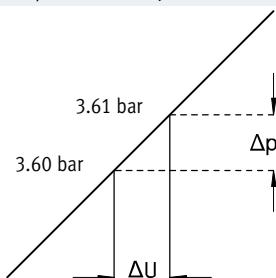
There is always a linear relationship within a certain tolerance between the setpoint value entered and the pressure output. Nevertheless it makes a difference whether the setpoint value is entered as rising or falling. The difference between the maximum deviations is referred to as hysteresis.

Linearity error



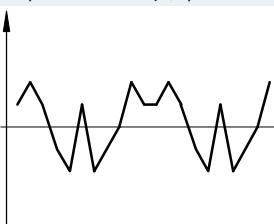
A perfectly linear progression of the control characteristic of the output pressure is theoretical. The maximum percentage deviation from this theoretical control characteristic is referred to as the linearity error. The percentage value refers to the maximum output pressure (full scale).

Response sensitivity



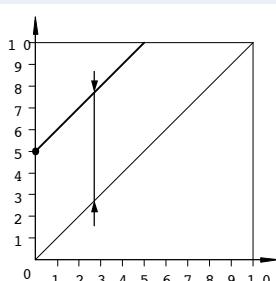
The response sensitivity of the device determines how sensitively one can change, i.e. adjust, a pressure. The smallest setpoint value difference that results in a change in the output pressure is referred to as the response sensitivity. In this case, 0.01 bar.

Repetition accuracy (reproducibility)



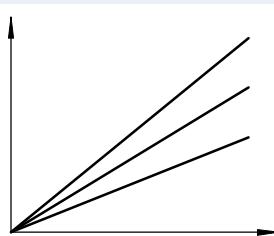
The repetition accuracy is the margin within which the fluid output variables are scattered when the same electrical input signal coming from the same direction is repeatedly adjusted. The repetition accuracy is expressed as a percentage of the maximum fluid output signal.

Zero offset



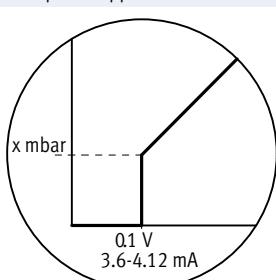
If, for example, a VPPM cannot be vented for safety reasons, the minimum pressure can be increased from the zero point. The smallest setpoint value is then assigned an output pressure of 5 bar, for example, and the largest setpoint value an output pressure of 10 bar. Zero suppression is automatically switched off if zero offsetting is used.

Pressure range adaptation



In the delivery condition, 100% setpoint value equals 100% fluid output signal. Pressure range adaptation or adjustment enables the fluid output variable to be matched to the setpoint value.

Zero point suppression



In practice there exists the possibility of residual voltage or residual current at the setpoint input of the VPPM via the setpoint generator. Zero point suppression is used so that the valve is reliably vented at a setpoint value of zero.

Proportional pressure regulators VPPM

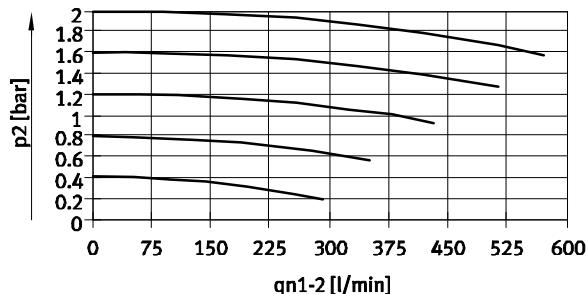
Key features – Flow rate

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Flow rate q_n from 1 → 2 as a function of output excess pressure p_2

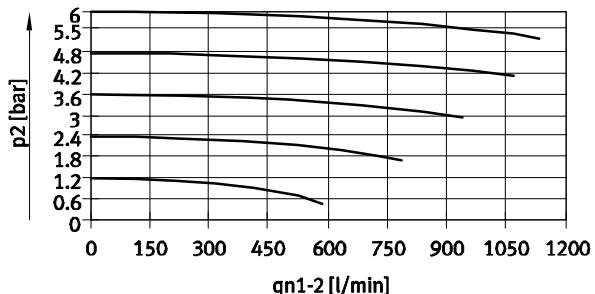
VPPM-6L/F...-0L2H...

(2 bar)

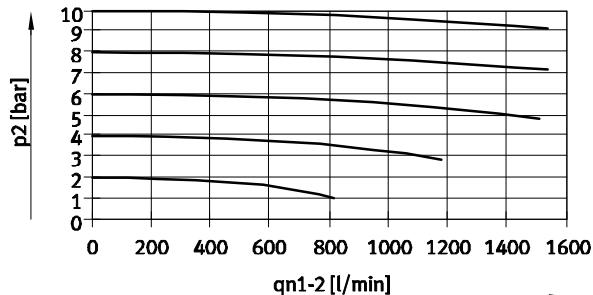


VPPM-6L/F...-0L6H...

(6 bar)



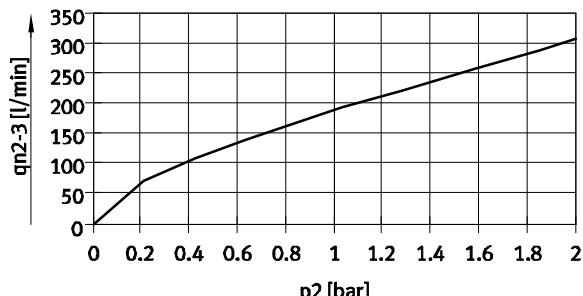
VPPM-6L/F...-0L10H... (10 bar)



Flow rate q_n from 2 → 3 as a function of output excess pressure p_2

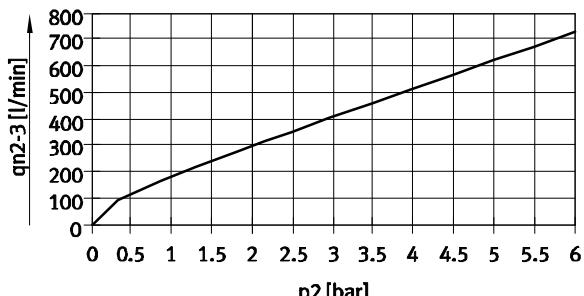
VPPM-6L/F...-0L2H...

(2 bar)

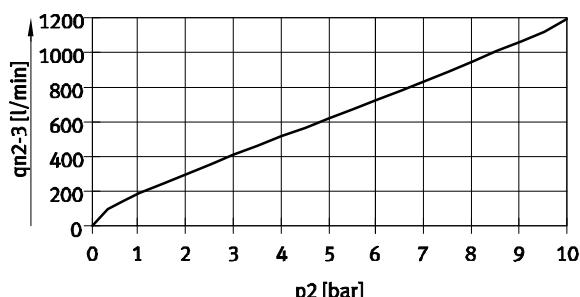


VPPM-6L/F...-0L6H...

(6 bar)



VPPM-6L/F...-0L10H... (10 bar)



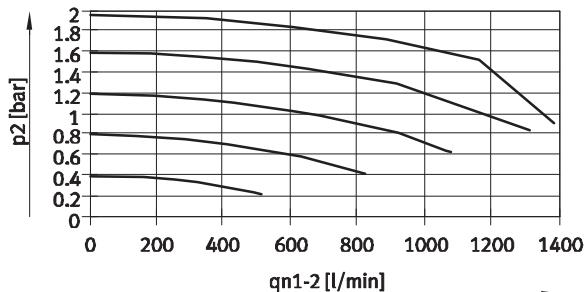
Proportional pressure regulators VPPM

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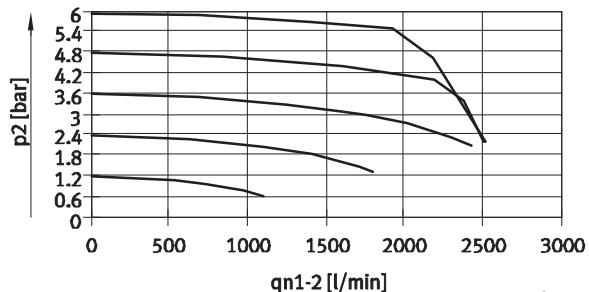
Key features – Flow rate

Flow rate q_n from 1 → 2 as a function of output excess pressure p_2

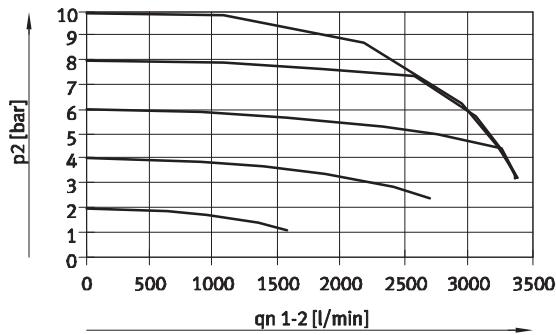
VPPM-8L...-0L2H... (2 bar)



VPPM-8L...-0L6H... (6 bar)



VPPM-8L...-0L10H... (10 bar)



VPPM-8L...-0L2H... (2 bar)

VPPM-8L...-0L6H... (6 bar)



VPPM-8L...-0L10H... (10 bar)



Proportional pressure regulators VPPM

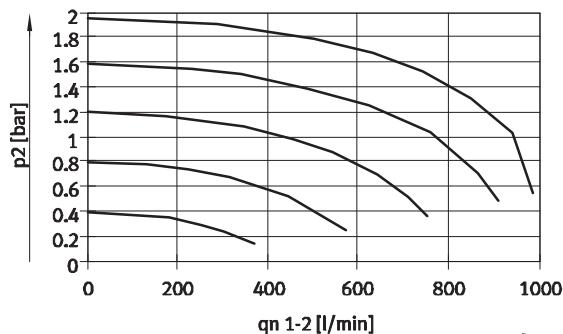
Key features – Flow rate

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Flow rate q_{n1} from 1 → 2 as a function of output excess pressure p_2

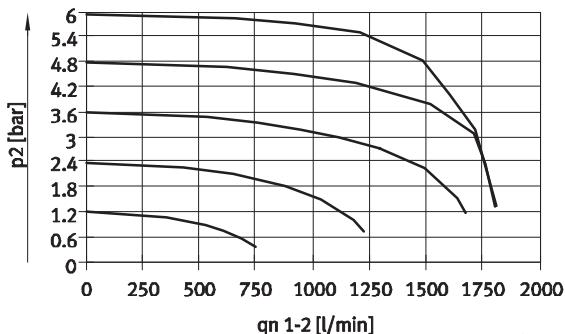
VPPM-8F/8TA-...-0L2H-...

(2 bar)



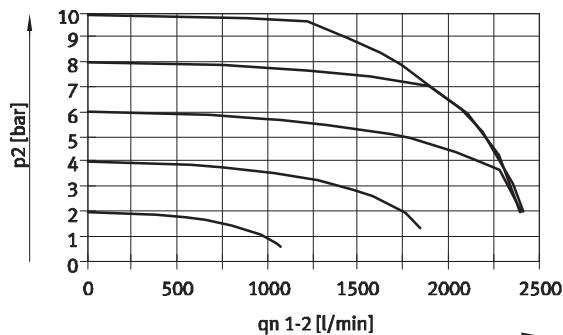
VPPM-8F/8TA-...-0L6H-...

(6 bar)



VPPM-8F/8TA-...-0L10H-...

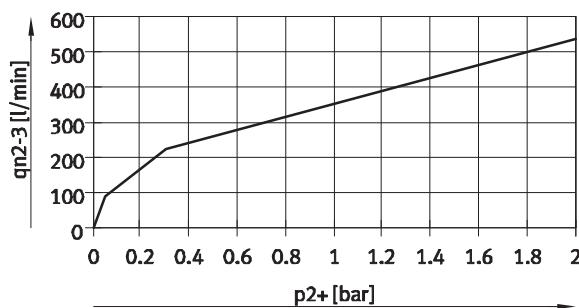
(10 bar)



Flow rate q_{n2-3} from 2 → 3 as a function of output excess pressure p_2

VPPM-8F/8TA-...-0L2H-...

(2 bar)



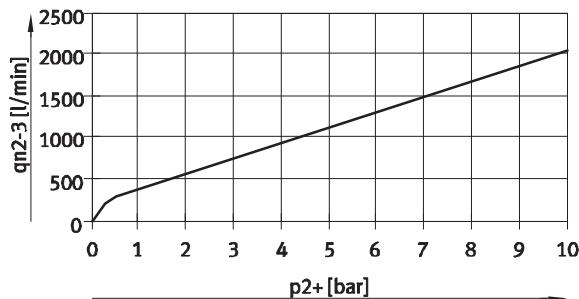
VPPM-8F/8TA-...-0L6H-...

(6 bar)



VPPM-8F/8TA-...-0L10H-...

(10 bar)



Proportional pressure regulators VPPM

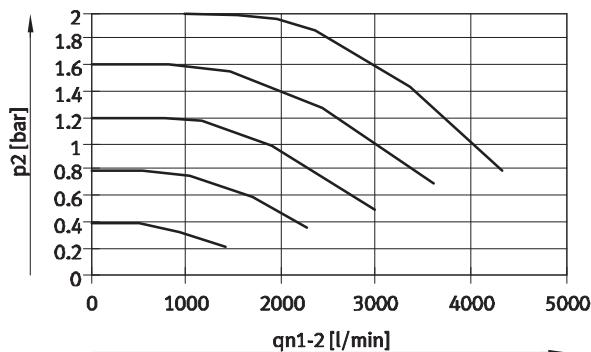
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Key features – Flow rate

Flow rate q_n from 1 → 2 as a function of output excess pressure p_2

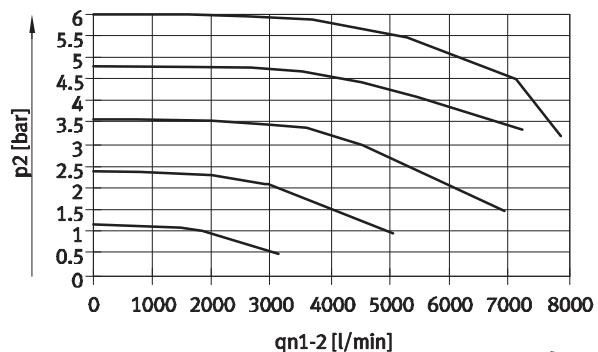
VPPM-12L-...-0L2H-...

(4 bar)



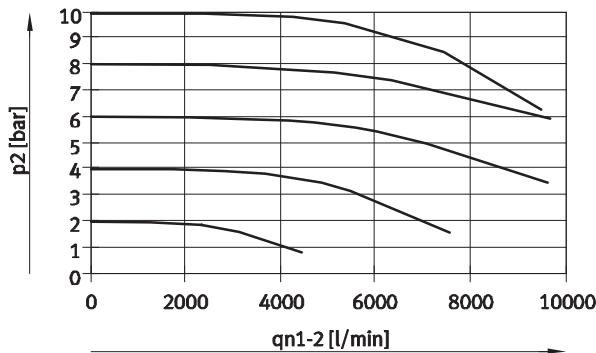
VPPM-12L-...-0L6H-...

(8 bar)



VPPM-12L-...-0L10H-...

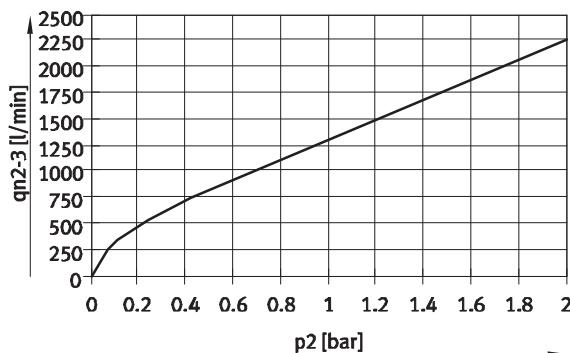
(11 bar)



Flow rate q_n from 2 → 3 as a function of output excess pressure p_2

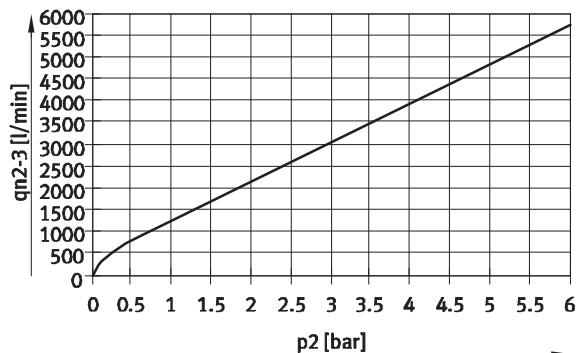
VPPM-12L-...-0L2H-...

(4 bar)



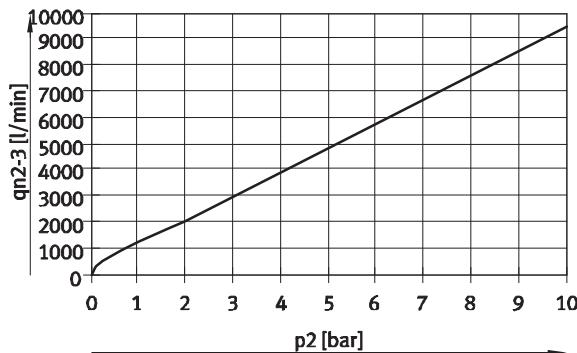
VPPM-12L-...-0L6H-...

(8 bar)



VPPM-12L-...-0L10H-...

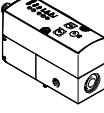
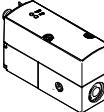
(11 bar)



Proportional pressure regulators VPPM

Product range overview

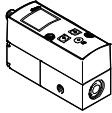
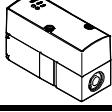
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Function	Version	Design	Pneumatic connection 1, 2, 3	Nominal width for pressurisation/ exhaust [mm]	Pressure regulation range [bar]	Setpoint value input			➔ Page/ Internet
						Voltage type	Current type	Digital	
Pressure regulators		Piloted diaphragm valve	G1/8	6/4.5	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	18
			Sub-base	6/4.5	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
			8/7	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-		
			G1/4	8/7	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
			G1/2	12/12	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
		Piloted diaphragm valve	G1/8	6/4.5	0.02 ... 2 0.06 ... 6 0.1 ... 10	-	-	■	25
			Sub-base	6/4.5	0.02 ... 2 0.06 ... 6 0.1 ... 10	-	-	■	
			8/7	0.02 ... 2 0.06 ... 6 0.1 ... 10	-	-	■		
			G1/4	8/7	0.02 ... 2 0.06 ... 6 0.1 ... 10	-	-	■	
			G1/2	12/12	0.02 ... 2 0.06 ... 6 0.1 ... 10	-	-	■	

Proportional pressure regulators VPPM

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Product range overview

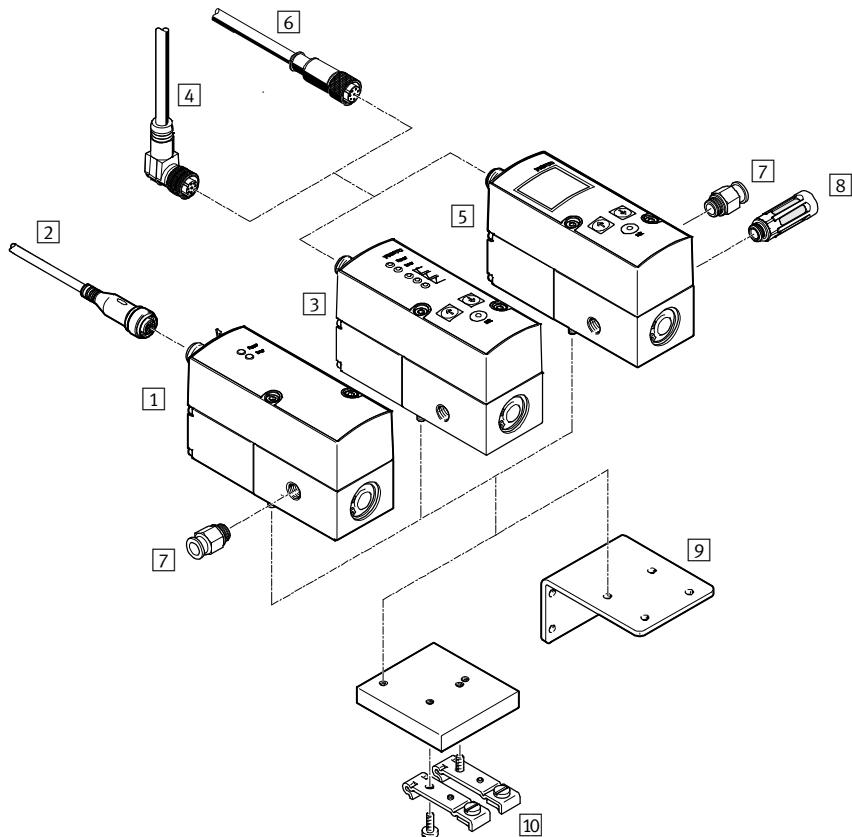
Function	Version	Design	Pneumatic connection 1, 2, 3	Nominal width for pressurisation/exhaust [mm]	Pressure regulation range [bar]	Setpoint value input			→ Page/ Internet
						Voltage type	Current type	Digital	
Pressure regulators	Operator unit with LCD, pressure unit variable								18
		Piloted diaphragm valve	G1/8	6/4.5	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
			Sub-base	6/4.5	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
			8/7	8/7	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
			G1/4	8/7	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
		Piloted diaphragm valve	G1/2	12/12	0.02 ... 2 0.06 ... 6 0.1 ... 10	■	■	-	
			Operator unit with LED, for valve terminal MPA-S						
			Sub-base MPA	6/4.5, 8/7	0.02 ... 2 0.06 ... 6 0.1 ... 10	-	-	■	mpas

Proportional pressure regulators VPPM

Peripherals overview

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Individual valve VPPM-6L ... , VPPM-8L ...



Accessories

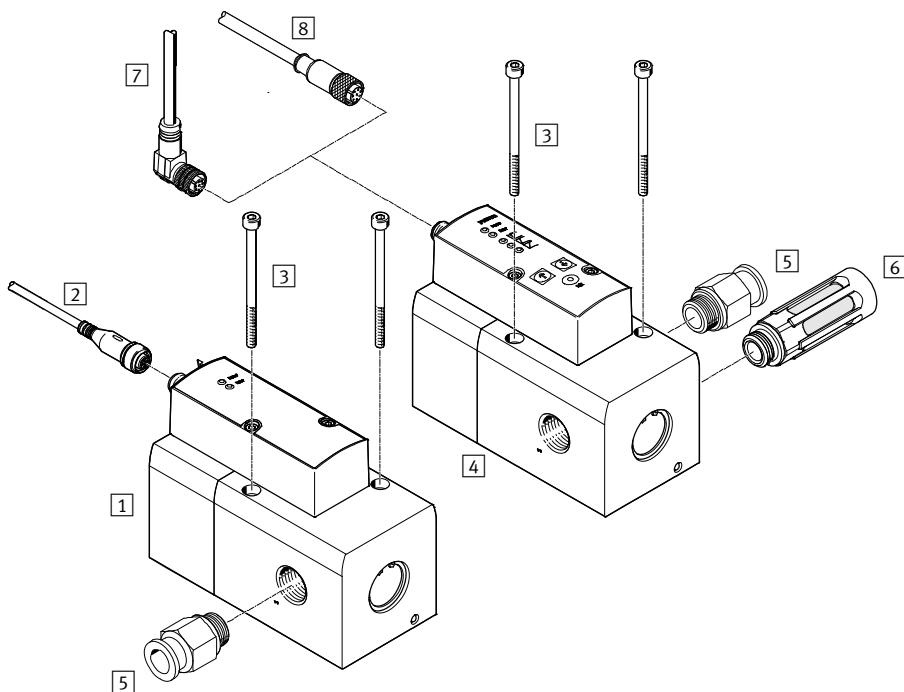
	Description	➔ Page/Internet
1 Proportional pressure regulator VPPM	Operator unit with LED, IO-Link	25
2 Connecting cable NEBU-M12G5...	-	40
3 Proportional pressure regulator VPPM	Operator unit with LED	40
4 Angled plug socket with cable NEBU-M12W8...	-	40
5 Proportional pressure regulator VPPM	Operator unit with LCD	18
6 Straight plug socket with cable SIM-M12-8GD...	-	18
7 Push-in fitting QS	For connecting compressed air tubing with standard O.D.	qs
8 Silencer	For installation in exhaust ports	u
9 Angle bracket VAME-P1-A	For mounting the valve	37
10 H-rail mounting VAME-P1-T	For mounting on an H-rail	35

Proportional pressure regulators VPPM

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Peripherals overview

Individual valve VPPM-12L ...



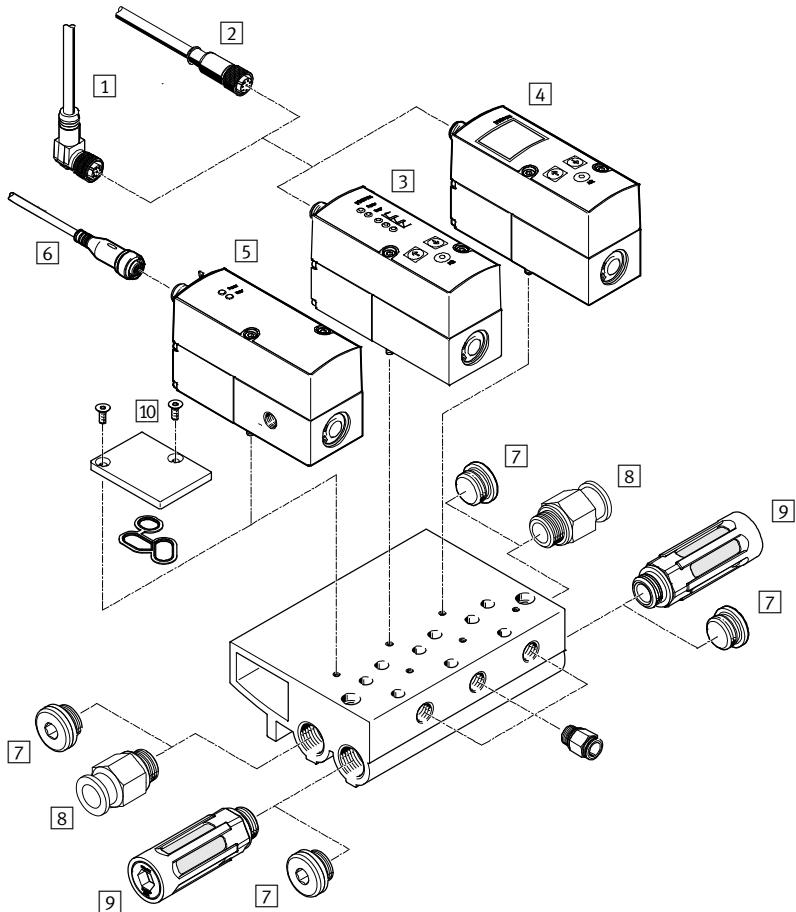
Accessories		Description	➔ Page/Internet
[1]	Proportional pressure regulator VPPM	Operator unit with LED, IO-Link	25
[2]	Connecting cable NEBU-M12G5...	-	40
[3]	Mounting screws	-	-
[4]	Proportional pressure regulator VPPM	Operator unit with LED or LCD	18
[5]	Push-in fitting QS	For connecting compressed air tubing with standard O.D.	qs
[6]	Silencer	For installation in exhaust ports	u
[7]	Angled plug socket with cable NEBU-M12W8...	-	40
[8]	Straight plug socket with cable SIM-M12-8GD...	-	40

Proportional pressure regulators VPPM

Peripherals overview

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Manifold assembly with VPPM-6F ... , VPPM-8F ...



Accessories

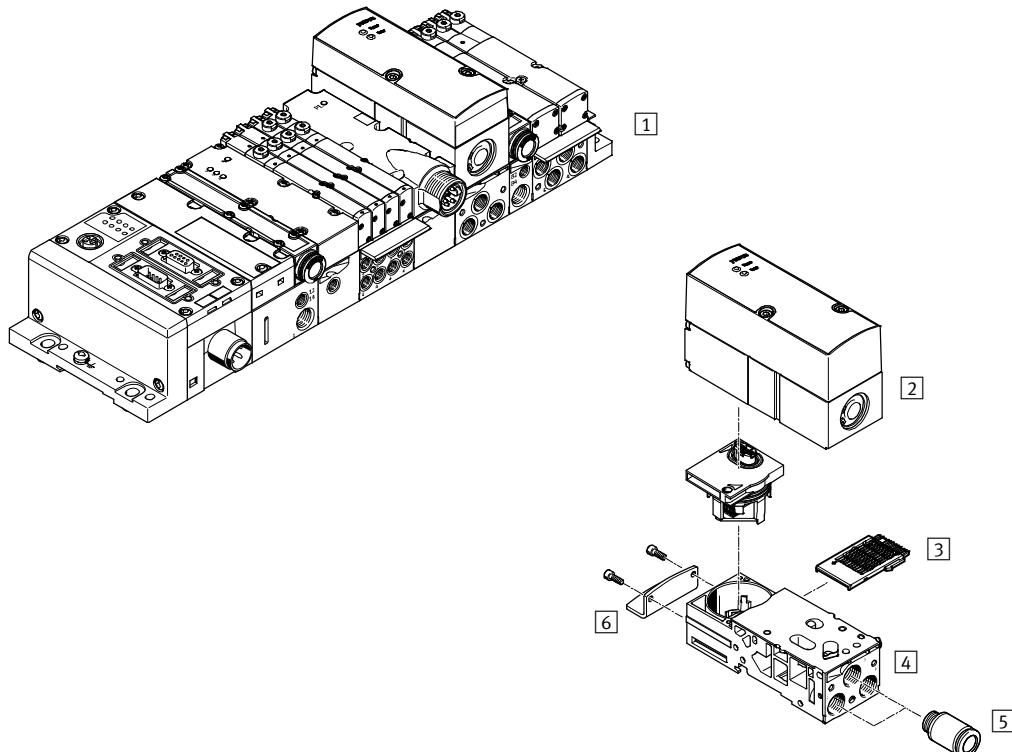
	Description	➔ Page/Internet
[1] Angled plug socket with cable NEBU-M12W8-...	-	40
[2] Straight plug socket with cable SIM-M12-8GD-...	-	40
[3] Proportional pressure regulator VPPM	Operator unit with LED	18
[4] Proportional pressure regulator VPPM	Operator unit with LCD	18
[5] Proportional pressure regulator VPPM	Operator unit with LED, IO-Link	25
[6] Connecting cable NEBU-M12G5...	-	40
[7] Blanking plug B	-	b
[8] Push-in fitting QS	For connecting compressed air tubing with standard O.D.	qs
[9] Silencer	For installation in exhaust ports	u
[10] Cover plate VABB-P1	For vacant position; seal and countersunk screws included in the scope of delivery	36
Manifold block VABM	-	35

Proportional pressure regulators VPPM

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System overview

VPPM-6TA ... , VPPM-8TA ... for valve terminal MPA-S



Accessories	Description	➔ Page/Internet
[1] Valve terminal MPA-S	With fieldbus connection and VPPM	mpas
[2] Proportional pressure regulator VPPM	For valve terminal MPA-S	mpas
[3] Electrical interlinking module VMPA1-FB-EV-AB	For sub-base of the proportional pressure regulator	mpas
[4] Sub-base VMPA-FB-AP-P1	Without electrical interlinking module or electrical module	mpas
[5] Push-in fitting QS	-	qs
[6] Mounting component VMPA-BG	-	mpas

Proportional pressure regulators VPPM

Type codes

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VPPM	6	L	L	1	G18	OL	6H	1L	6H
Type									
VPPM Modular proportional pressure regulator									
Nominal diameter									
6 6 mm									
8 8 mm									
12 12 mm									
Design									
L In-line valve									
F Flanged valve									
T Flanged valve for valve terminal									
Dynamic response class									
L Low									
Valve function									
1 3/2-way valve, normally closed									
Pneumatic connection									
G18 Thread G1/8									
G14 Thread G1/4									
G12 Thread G1/2									
F Flange/sub-base									
Lower pressure value of regulation range									
OL 0 bar									
Upper pressure value of regulation range									
2H 2 bar									
6H 6 bar									
10H 10 bar									
Alternative lower pressure value of regulation range									
...L 0 ... 9 bar									
Alternative upper pressure value of regulation range									
...H 0.2 ... 10 bar									

Proportional pressure regulators VPPM

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Type codes

→	-	V1	N	-	S1	
Setpoint specification for individual valve						
-	For valve terminals / servo pneumatics					
V1	0 ... 10 V					
LK	IO-Link					
A4	4 ... 20 mA					
Switching output						
N	Negative switching					
P	Positive switching					
Accuracy						
-	2% (standard)					
S1	1%					
Operator unit						
-	LED (standard)					
C1	With LCD, pressure unit variable					

Proportional pressure regulators VPPM

Technical data – VPPM with analogue interface

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-  - Flow rate
380 ... 7000 l/min
-  - Voltage
21.6 ... 26.4 V DC
-  - Pressure regulation range
0.02 ... 10 bar

Variants

- Setpoint input as analogue voltage signal 0 ... 10 V
- Setpoint input as analogue current signal 4 ... 20 mA
- LED version
- With LCD display
- NPN or PNP switching output



General technical data

Type	VPPM-6	VPPM-8	VPPM-12	Sub-base	
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{2}$	Via sub-base	
Constructional design	Pilot actuated diaphragm regulator				
Sealing principle	Soft				
Actuation type	Electric				
Type of control	Pilot actuated via 2/2-way valves				
Type of mounting	Via through-hole, via accessories				
Mounting position	Any				
Nominal diameter	Pressurisation [mm]	6	8	12	
	Exhaust [mm]	4.5	7	12	
Standard nominal flow rate	[l/min]	→ Graphs			
Product weight	[g]	400	560	2050	
		400	560		

Electrical data

Type	VPPM-6	VPPM-8	VPPM-12
Electrical connection	Plug, round design, 8-pin, M12		
Operating voltage range	[V DC] 24 ± 10% = 21.6 ... 26.4		
Residual ripple	[%] 10		
Duty cycle	[%] 100		
Max. electrical power consumption	[W] 7		
Signal setpoint input	Voltage [V DC]	0 ... 10	
	Current [mA]	4 ... 20	
Protection against short circuit	For all electrical connections		
Protection against polarity reversal	For all electrical connections		
Protection class	IP65		

-  - Note

If the power supply cable is interrupted, output pressure is maintained unregulated.

Proportional pressure regulators VPPM

FESTO

Technical data – VPPM with analogue interface

Operating and environmental conditions					
Pressure regulation range	[bar]	0.02 ... 2	0.06 ... 6	0.1 ... 10	
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
		Inert gases			
Note on operating/pilot medium		Operation with lubricated medium not possible			
Supply pressure 1) ¹⁾	[bar]	0 ... 4	0 ... 8	0 ... 11	
Max. hysteresis	[mbar]	10	30	50	
FS (full scale) linearity error	[%]	±0.5			
FS (full scale) repetition accuracy	[%]	0.5			
Temperature coefficient	[%/K]	0.04			
Ambient temperature, operator unit LED (standard)	°C	0 ... 60			
Ambient temperature, operator unit with LCD	°C	0 ... 50			
Temperature of medium	°C	10 ... 50			
Note on materials		RoHS-compliant			
Corrosion resistance	[CRC]	2) ²⁾			
CE mark		To EU EMC Directive (see declaration of conformity) ³⁾			
Certification		RCM trademark			
		c UL us - Listed (OL)			

1) Supply pressure 1 should always be 1 bar greater than the maximum regulated output pressure.

2) Corrosion resistance class 2 as per Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

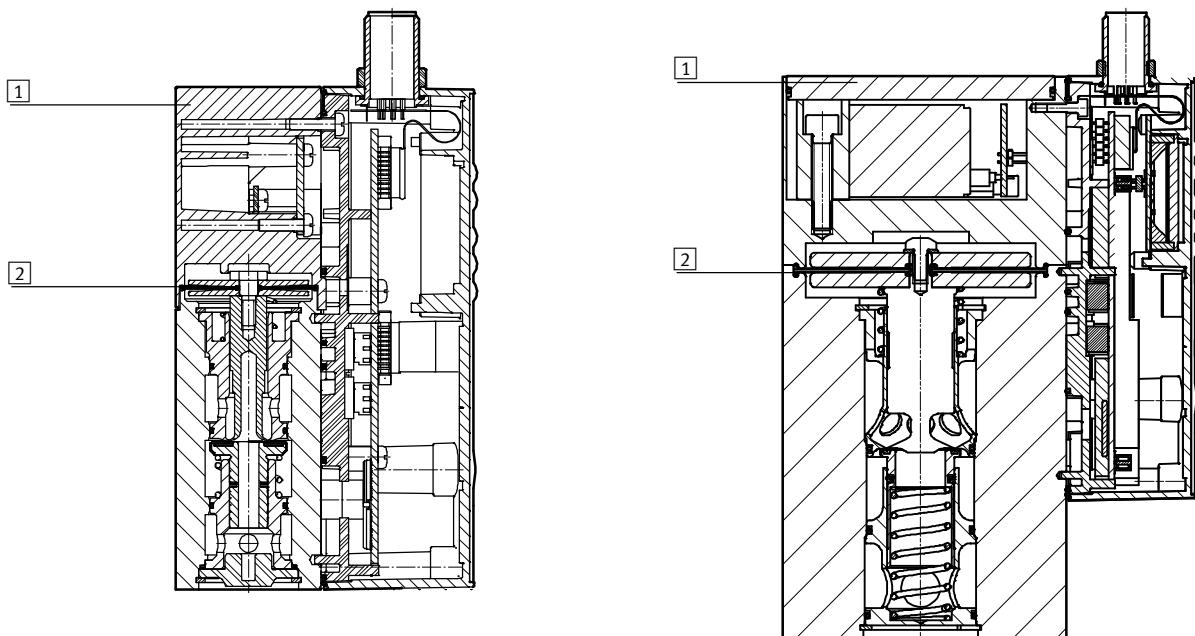
3) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → User documentation.

If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Materials

Sectional view VPPM-6 ..., VPPM-8 ...

Sectional view VPPM-12 ...

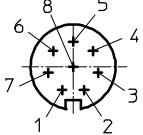


[1]	Housing	Wrought aluminium alloy
[2]	Diaphragm	Nitrile rubber

Proportional pressure regulators VPPM

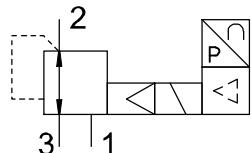
Technical data – VPPM with analogue interface

FESTO

Pin allocation M12, electrical connection		
	Pin	Function
	1	Digital input D1
	2	+24 V DC supply voltage
	3	Analogue input W-
	4	Analogue input W+
	5	Digital input D2
	6	Analogue output X
	7	0 V DC or GND
	8	Digital output D3

Version

Circuit symbol



- Pilot actuated diaphragm valve
- Pressure regulation range:
0.02 ... 2, 0.06 ... 6, 0.1 ... 10 bar
- Signal setpoint input:
0 ... 10 V DC, 4 ... 20 mA

Proportional pressure regulators VPPM

FESTO

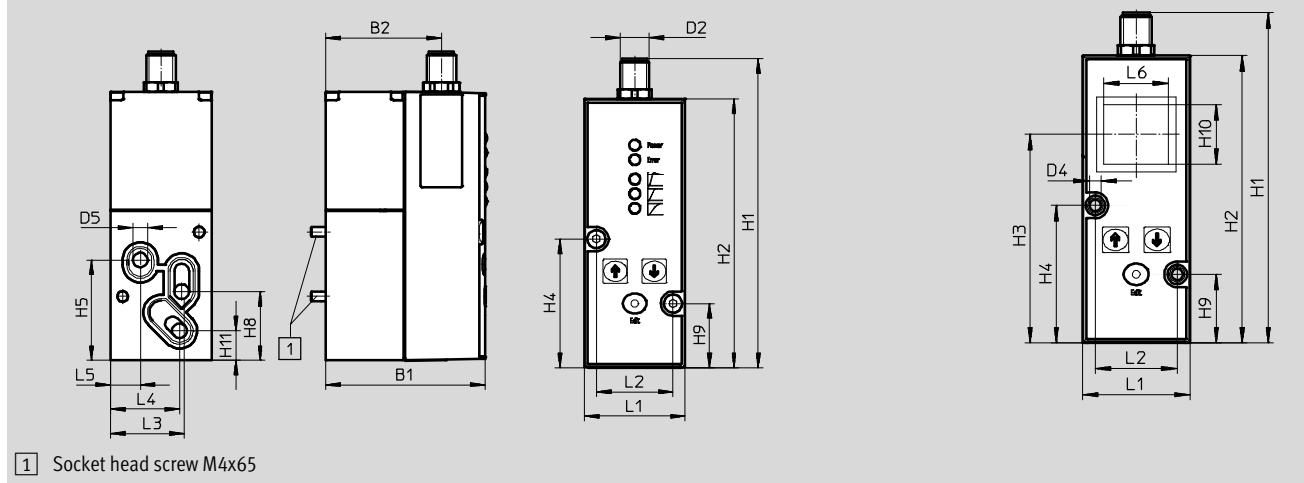
Technical data – VPPM with analogue interface

Dimensions

VPPM-6F, sub-base valve

Download CAD data → www.festo.com

With LCD



[1] Socket head screw M4x65

Type	B1	B2	B3	D1	D2	D4 ∅	D5 ∅	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12
VPPM-6F	65.4	47.5	–	–	M12	4.4	6	126.9	110.4	80.1	52.8	41.3	–	–	28.3	26.3	23	12.2	–

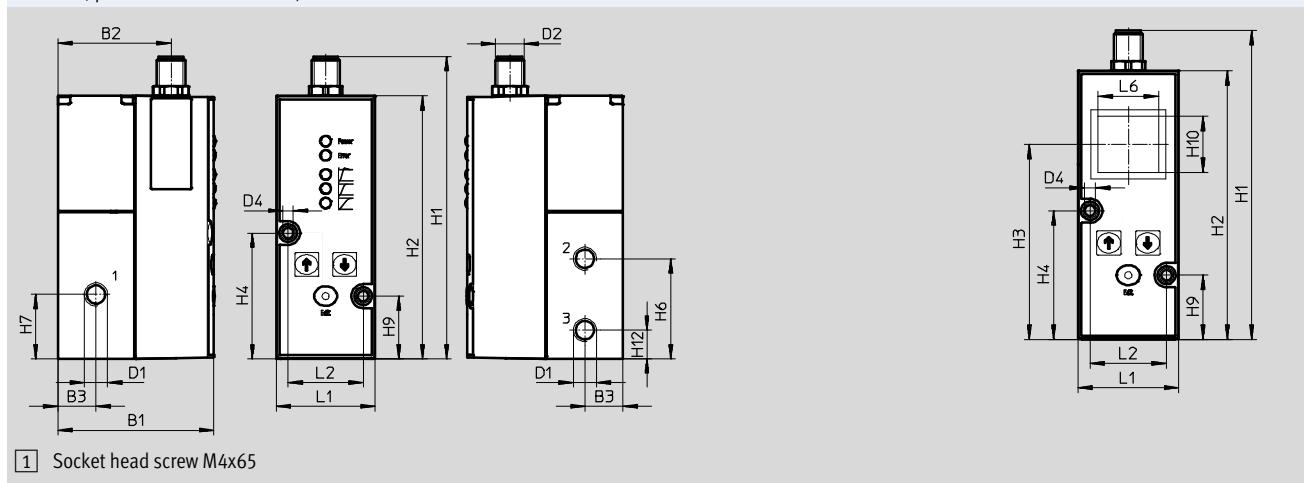
Type	L1	L2	L3	L4	L5	L6
VPPM-6F	41.5	31.5	30.3	28.4	12.3	25

Dimensions

VPPM-6L, pneumatic connection G1/8

Download CAD data → www.festo.com

With LCD



[1] Socket head screw M4x65

Type	B1	B2	B3	D1 ∅	D2 ∅	D4 ∅	H1	H2	H3	H4	H6	H7	H9	H10	H12
VPPM-6L	65.5	47.5	16	G1/8	M12	4.4	126.9	110.4	80.1	52.8	42	27	26.3	23	12

Type	L1	L2	L6
VPPM-6L	41.5	31.5	25

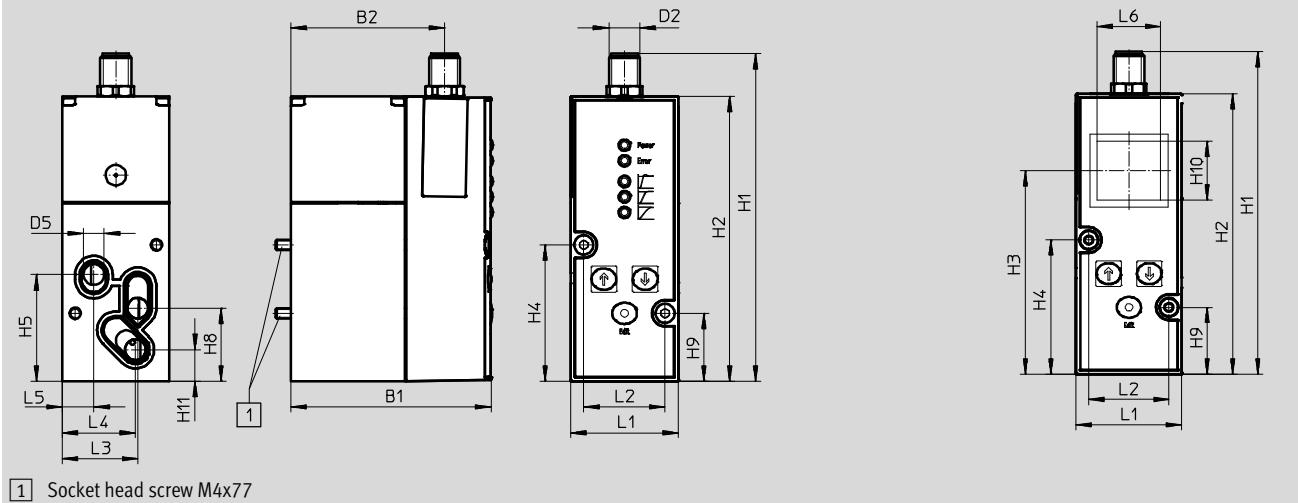
Proportional pressure regulators VPPM

Technical data – VPPM with analogue interface

FESTO

Dimensions

VPPM-8F, sub-base valve

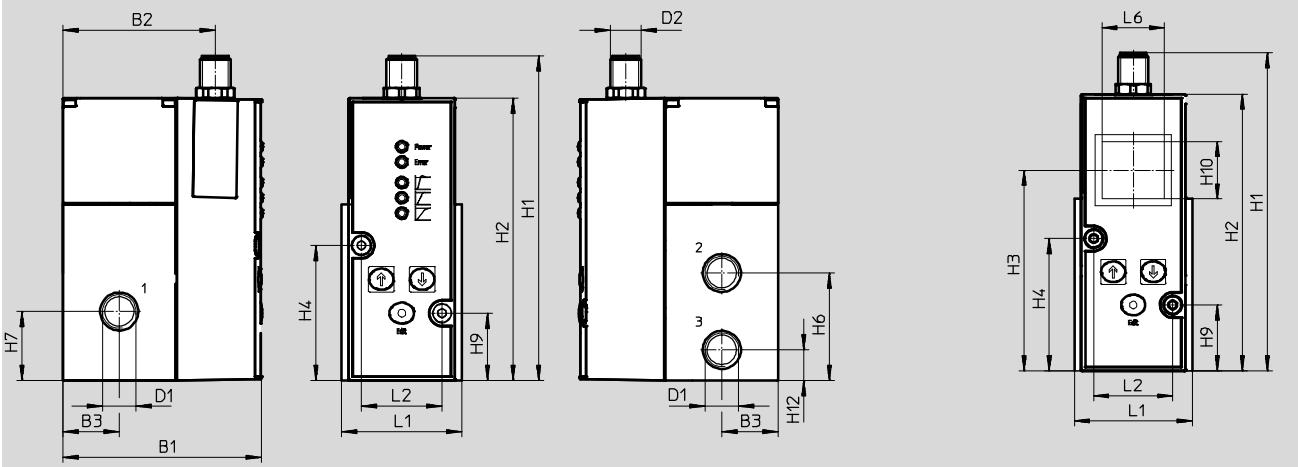


Type	B1	B2	D2	D5 Ø	H1	H2	H3	H4	H5	H8	H9	H10	H11
VPPM-8F	77.4	59.5	M12	8	126.9	110.4	80	52.8	41.3	28.3	26.3	23	12.2

Type	L1	L2	L3	L4	L5	L6
VPPM-8F	41.5	31.5	29.3	28.4	12.3	25

Dimensions

VPPM-8L, pneumatic connection G1/4



Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	H6	H7	H9	H10	H12
VPPM-8L	77.4	59.5	22	G1/4	M12	126.9	110.4	80	52.8	42	27	26.3	23	12

Type	L1	L2	L6
VPPM-8L	47	31.5	25

Proportional pressure regulators VPPM

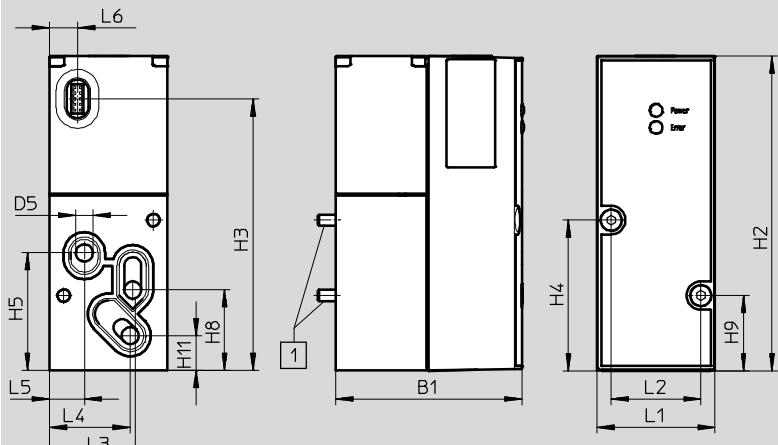
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Technical data – VPPM with analogue interface

Dimensions

VPPM-6TA, sub-base valve

Download CAD data ➔ www.festo.com



[1] Socket head screw M4x55

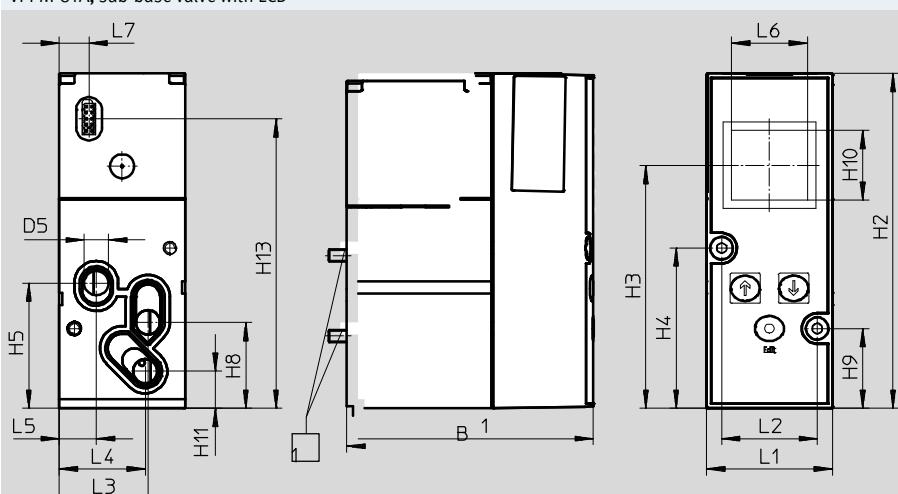
Type	B1	D5 Ø	H2	H3	H4	H5	H8	H9	H11
VPPM-6TA	55.1	6	110.4	95.5	52.8	41.3	28.3	26.3	12.2

Type	L1	L2	L3	L4	L5	L6
VPPM-6TA	41.5	31.5	30.3	28.4	12.3	9.9

Dimensions

VPPM-8TA, sub-base valve with LCD

Download CAD data ➔ www.festo.com



[1] Socket head screw M4x77

Type	B1	B2	B3	D1	D2	D5 Ø	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13
VPPM-8TA	77.4	–	–	–	–	8	–	110.4	80	52.8	41.3	–	–	28.3	26.3	23	12.2	–	95.5

Type	L1	L2	L3	L4	L5	L6	L7
VPPM-8TA	41.5	31.5	29.3	28.4	12.3	25	9.9

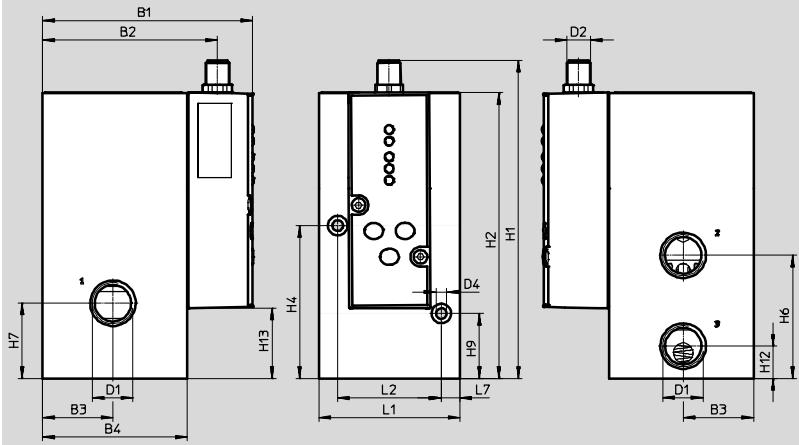
Proportional pressure regulators VPPM

Technical data – VPPM with analogue interface

FESTO

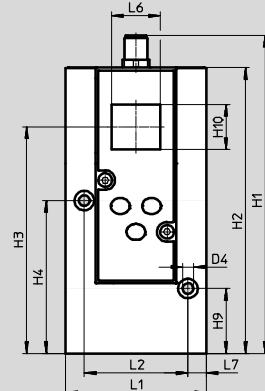
Dimensions

VPPM-12L, pneumatic connection G1/2



Download CAD data ➔ www.festo.com

With LCD



Type	B1	B2	B3	B4	D1 Ø	D2	D4 Ø	H1	H2	H3	H4	H6	H7	H9	H10	H12	H13
VPPM-12L	107.4	89.5	36	74	G1/2	M12	5.5	162.8	146.3	116	78.2	63	38.5	33.2	23	16.5	35.9

Type	L1	L2	L6	L7
VPPM-12L	72	53	25	9.5

Proportional pressure regulators VPPM, IO-Link

FESTO

Technical data – VPPM with IO-Link interface

-  - Flow rate
380 ... 7000 l/min
 - Digital setpoint and actual value transfer
 - For connection to an I/O-Link/I-Port master
-  - Voltage
18 ... 30 V DC
 - LED version
 - Comparator output (digital)
-  - Pressure regulation range
0.02 ... 10 bar



General technical data

Type	VPPM-6	VPPM-8	VPPM-12	Sub-base		
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{2}$	Via sub-base		
Valve function	3-way proportional pressure regulator					
Design	Piloted diaphragm regulator					
Type of display	LED					
Sealing principle	Soft					
Actuation type	Electric					
Type of control	Piloted					
Reset method	Mechanical spring					
Type of mounting	Via through-hole, via accessories					
Mounting position	Any					
Nominal width	Pressurisation [mm]	6	8	12		
	Exhaust [mm]	4.5	7	12		
Standard nominal flow rate	[l/min.]	→ Graphs				
Product weight	[g]	400	560	2050	400	560
IO-Link	Protocol	IO-Link, I-Port				
	Protocol version	Device V1.1				
	Port type	A				
	Process data width OUT [byte]	2				
	Process data width IN [byte]	2				
Communication mode	COM1 [kBaud]	4.8				
	COM2 [kBaud]	38.4				
	COM3 [kBaud]	230.4				
IO-Link	Minimum cycle time [ms]	0.5				
Material	Housing	Wrought aluminium alloy				

Electrical data

Type	VPPM-6	VPPM-8	VPPM-12
Electrical connection	M12 plug connector, 5-pin		
Operating voltage range [V DC]	18 ... 30		
Max. current consumption [mA]	300	300	500
Max. electrical power consumption [W]	7		12
Protection against short circuit	For all electrical connections		
Protection against incorrect polarity	For all electrical connections		
Residual ripple [%]	10		
Duty cycle [%]	100		
Degree of protection	IP65		

-  - Note

Output pressure remains unregulated if the power supply cable is interrupted.

Proportional pressure regulators VPPM, IO-Link

Technical data – VPPM with IO-Link interface

FESTO

Operating and environmental conditions				
Pressure regulation range	[bar]	0.02 ... 2	0.06 ... 6	0.1 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
	Inert gases			
Note on operating/pilot medium	Operation with lubricated medium not possible			
Supply pressure 1) ¹⁾	[bar]	0 ... 4	0 ... 8	0 ... 11
Max. hysteresis	[mbar]	10	30	50
FS (full scale) linearity error	[%]	±0.5		
FS (full scale) repetition accuracy	[%]	0.5		
Temperature coefficient	[%/K]	0.04		
Ambient temperature	°C	0 ... 60		
Temperature of medium	°C	10 ... 50		
Note on materials	RoHS-compliant			
Corrosion resistance	[CRC]	2) ²⁾		
CE mark	To EU EMC Directive (see declaration of conformity) ³⁾			
Certification	RCM trademark c UL us - Listed (OL)			

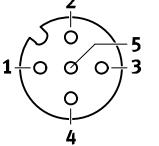
1) Supply pressure 1 should always be 1 bar greater than the maximum regulated output pressure.

2) Corrosion resistance class 2 as per Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

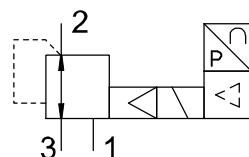
3) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → User documentation.

If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Pin allocation of IO-Link interface			
	Pin	Allocation	Function
	1	24 V DC (U _{EL/SEN})	Operating voltage supply (PS)
	2	n.c.	Not connected
	3	0 V DC (U _{EL/SEN})	Operating voltage supply (PS)
	4	C/Q I-PORT	Data communication
	5	n.c.	Not connected
	-	FE	Functional earth

Version

Circuit symbol



- Pilot actuated diaphragm valve
- Pressure regulation range:
0.02 ... 2, 0.06 ... 6, 0.1 ... 10 bar
- Signal setpoint input:
0 ... 10 V DC, 4 ... 20 mA

Proportional pressure regulators VPPM, IO-Link

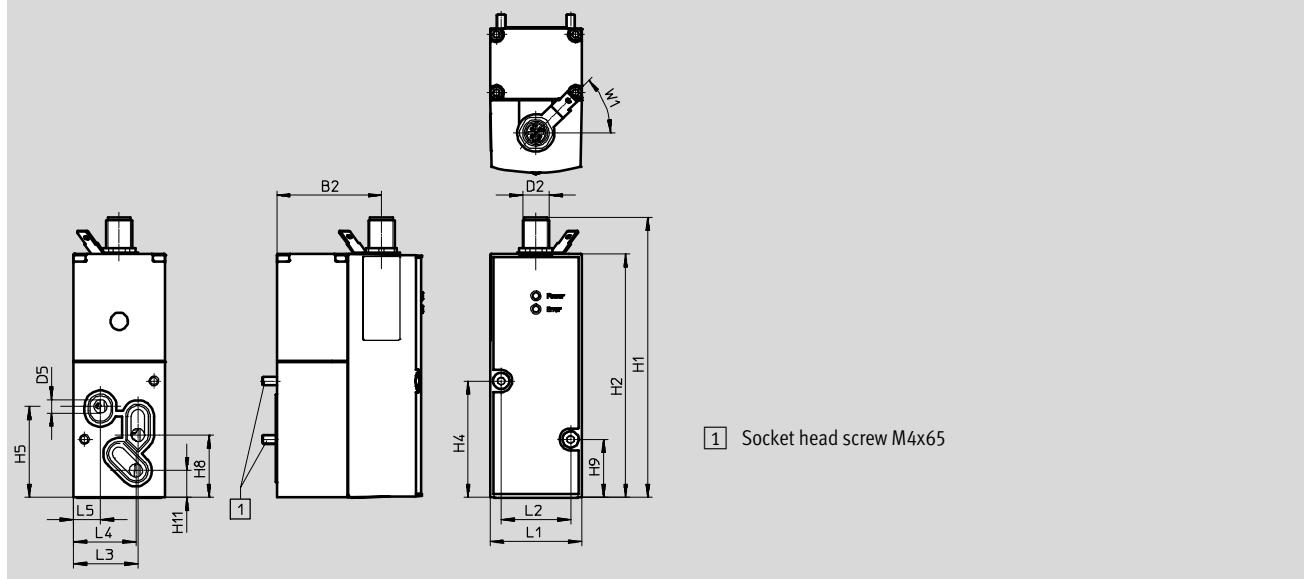
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Technical data – VPPM with IO-Link interface

Dimensions

VPPM-6F, sub-base valve

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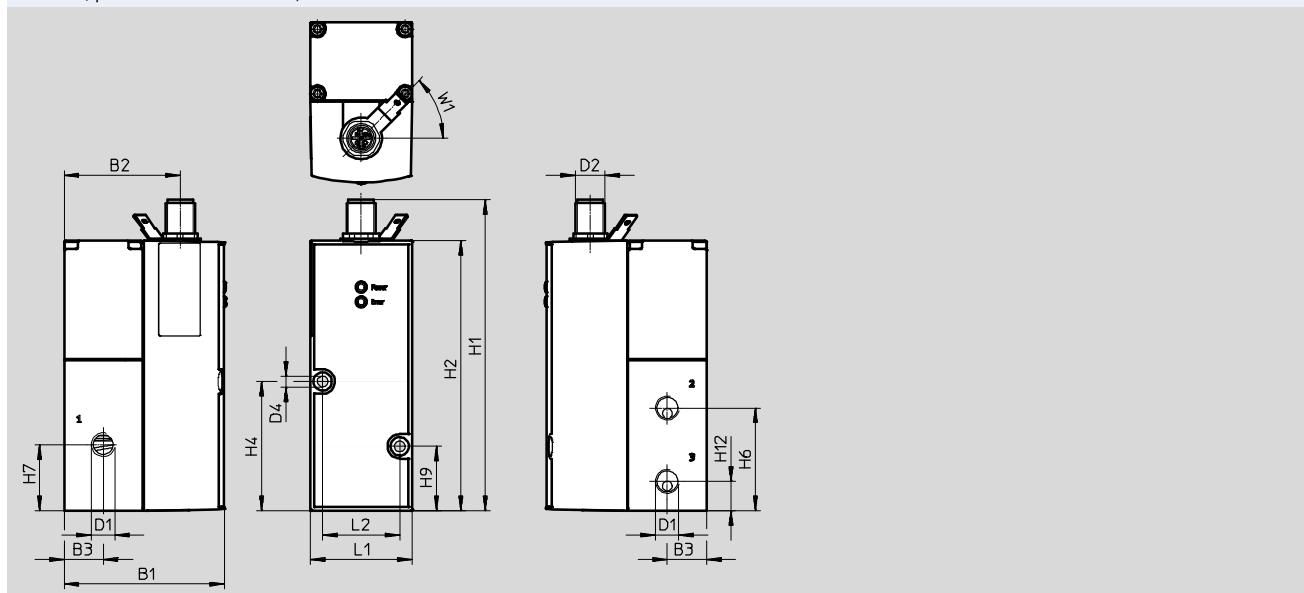
Type	B1	B2	D2 ∅	D5 ∅	H1	H2	H4	H5	H8	H9	H11
VPPM-6F	65.5	47.5	M12	6	126.9	110.4	52.8	41.3	28.3	26.3	12.2

Type	L1	L2	L3	L4	L5	W1 ± 5°
VPPM-6F	41.5	31.5	30.3	28.4	12.3	45°

Dimensions

VPPM-6L, pneumatic connection G1/8

Download CAD data → www.festo.com



Type	B1	B2	B3	D1 ∅	D2 ∅	D4 ∅	H1	H2	H4	H6	H7	H9	H12
VPPM-6L	65.5	47.5	16	G1/8	M12	4.4	126.9	110.4	52.8	42	27	26.3	12

Type	L1	L2	W1 ± 5°
VPPM-6L	41.5	31.5	45°

Proportional pressure regulators VPPM, IO-Link

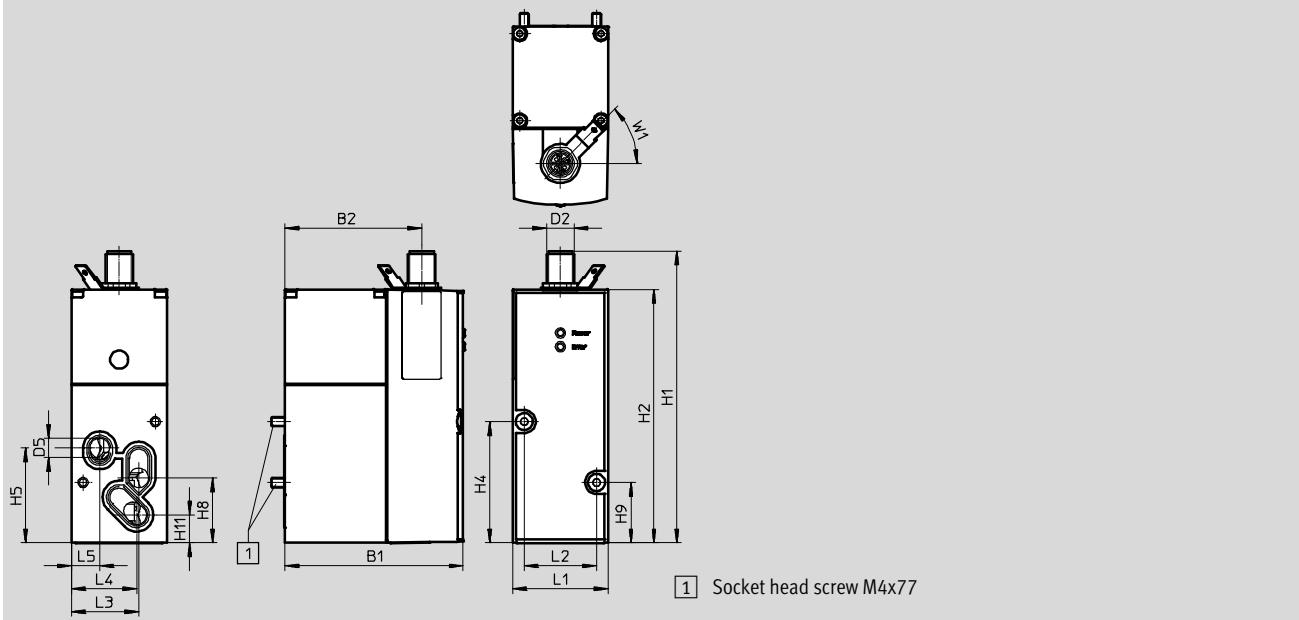
Technical data – VPPM with IO-Link interface

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Dimensions

VPPM-8F, sub-base valve

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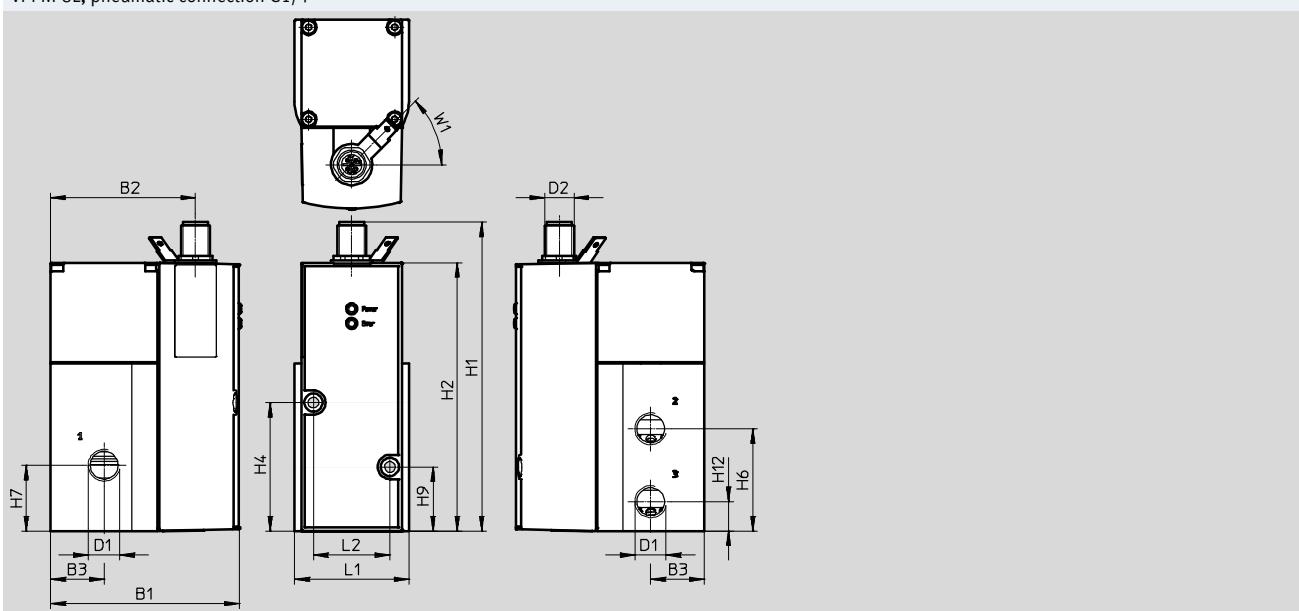
Type	B1	B2	D2	D5 Ø	H1	H2	H4	H5	H8	H9	H11
VPPM-8F	77.4	59.5	M12	8	126.9	110.4	52.8	41.3	28.3	26.3	12.2

Type	L1	L2	L3	L4	L5	W1 ± 5°
VPPM-8F	41.5	31.5	29.3	28.4	12.3	45°

Dimensions

VPPM-8L, pneumatic connection G1/4

Download CAD data → www.festo.com



Type	B1	B2	B3	D1	D2	H1	H2	H4	H6	H7	H9	H12
VPPM-8L	77.4	59.5	22	G1/4	M12	126.9	110.4	52.8	42	27	26.3	12

Type	L1	L2	W1 ± 5°
VPPM-8L	47	31.5	45°

Proportional pressure regulators VPPM, IO-Link

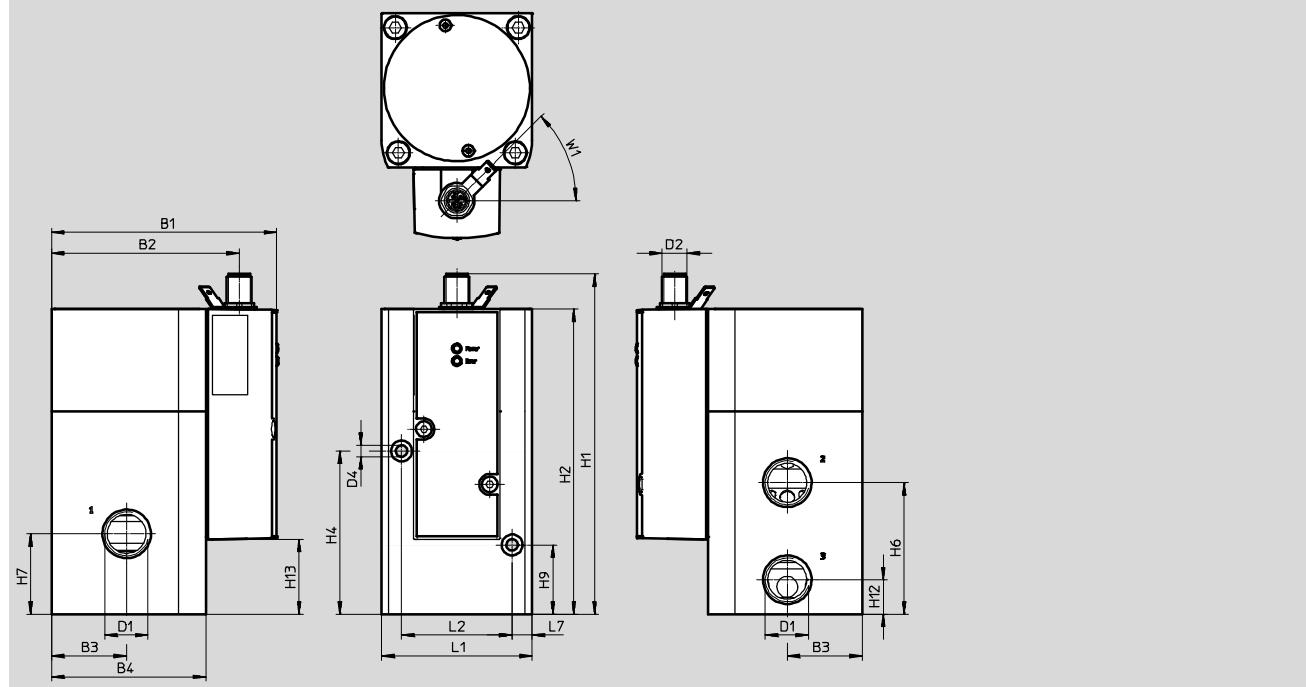
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Technical data – VPPM with IO-Link interface

Dimensions

VPPM-12L, pneumatic connection G1/2

Download CAD data ➔ www.festo.com



Type	B1	B2	B3	B4	D1	D2	D4 Ø	H1	H2	H4	H6	H7	H9	H12	H13
VPPM-12L	107.4	89.5	36	74	G1/2	M12	4.4	162.8	146.3	78.2	63	38.5	33.2	16.5	35.9

Type	L1	L2	L7	W1 ±5°
VPPM-12L	72	53	9.5	45°

Proportional pressure regulators VPPM

Technical data

FESTO

Ordering data		Pressure regulation range [bar]	Part No.	Type
VPPM with analogue interface	Pneumatic connection 1, 2, 3			
Voltage type 0 ... 10 V				
Overall accuracy 2%	G1/8	0.02 ... 2	542233	VPPM-6L-L-1-G18-0L2H-V1N
		0.06 ... 6	542234	VPPM-6L-L-1-G18-0L6H-V1N
			554043	VPPM-6L-L-1-G18-0L6H-V1P
			558337	VPPM-6L-L-1-G18-0L6H-V1P-C1
		0.1 ... 10	575125	VPPM-6L-L-1-G18-0L10H-V1P-C1
	Sub-base	0.02 ... 2	542235	VPPM-6L-L-1-G18-0L10H-V1N
		0.06 ... 6	542244	VPPM-6F-L-1-F-0L2H-V1N
			542246	VPPM-6F-L-1-F-0L6H-V1N
			558339	VPPM-6F-L-1-F-0L6H-V1P-C1
			558347	VPPM-6F-L-1-F-0L6H-V1N-C1
	G1/4	0.06 ... 6	571285	VPPM-8F-L-1-F-0L6H-V1P
		0.1 ... 10	542247	VPPM-6F-L-1-F-0L10H-V1N
		0.06 ... 6	571296	VPPM-8L-L-1-G14-0L6H-V1P
Overall accuracy 1%	G1/8	0.02 ... 2	542227	VPPM-6L-L-1-G18-0L2H-V1N-S1
		0.06 ... 6	542228	VPPM-6L-L-1-G18-0L6H-V1N-S1
			554039	VPPM-6L-L-1-G18-0L6H-V1P-S1
			571448	VPPM-6L-L-1-G18-0L6H-V1N-S1C1
			575121	VPPM-6L-L-1-G18-0L6H-V1P-S1C1
		0.1 ... 10	542229	VPPM-6L-L-1-G18-0L10H-V1N-S1
			554040	VPPM-6L-L-1-G18-0L10H-V1P-S1
			558335	VPPM-6L-L-1-G18-0L10H-V1P-S1C1
			558345	VPPM-6L-L-1-G18-0L10H-V1N-S1C1
	Sub-base	0.02 ... 2	542239	VPPM-6F-L-1-F-0L2H-V1N-S1
		0.06 ... 6	542240	VPPM-6F-L-1-F-0L6H-V1N-S1
			571286	VPPM-8F-L-1-F-0L6H-V1P-S1
			571287	VPPM-8F-L-1-F-0L6H-V1P-S1C1
		0.1 ... 10	542241	VPPM-6F-L-1-F-0L10H-V1N-S1
	G1/4	0.1 ... 10	571291	VPPM-8L-L-1-G14-0L10H-V1N-S1
			571292	VPPM-8L-L-1-G14-0L10H-V1P-S1
			571293	VPPM-8L-L-1-G14-0L10H-V1P-S1C1
		0.06 ... 6	571294	VPPM-8L-L-1-G14-0L6H-V1N-S1
			571295	VPPM-8L-L-1-G14-0L6H-V1N-S1C1
			571297	VPPM-8L-L-1-G14-0L6H-V1P-S1
			571298	VPPM-8L-L-1-G14-0L6H-V1P-S1C
		0.1 ... 10	575235	VPPM-12L-L-1-G12-0L10H-V1N-S1
	G1/2		575236	VPPM-12L-L-1-G12-0L10H-V1P-S1
			575237	VPPM-12L-L-1-G12-0L10H-V1P-S1C1
		0.06 ... 6	575238	VPPM-12L-L-1-G12-0L6H-V1N-S1
			575239	VPPM-12L-L-1-G12-0L6H-V1N-S1C1
			575240	VPPM-12L-L-1-G12-0L6H-V1P-S1
			575241	VPPM-12L-L-1-G12-0L6H-V1P-S1C1

Proportional pressure regulators VPPM

FESTO

Technical data

Ordering data			
VPPM with analogue interface	Pneumatic connection 1, 2, 3	Pressure regulation range [bar]	Part No. Type
Current type 4 ... 20 mA			
Overall accuracy 2%	G1/8	0.02 ... 2	542236 VPPM-6L-L-1-G18-0L2H-A4N
		0.06 ... 6	542237 VPPM-6L-L-1-G18-0L6H-A4N 554045 VPPM-6L-L-1-G18-0L6H-A4P 558338 VPPM-6L-L-1-G18-0L6H-A4P-C1
		0.1 ... 10	542238 VPPM-6L-L-1-G18-0L10H-A4N 554046 VPPM-6L-L-1-G18-0L10H-A4P
		Sub-base	0.02 ... 2 0.06 ... 6 0.1 ... 10 542248 VPPM-6F-L-1-F-0L2H-A4N 542249 VPPM-6F-L-1-F-0L6H-A4N 558340 VPPM-6F-L-1-F-0L6H-A4P-C1 571282 VPPM-8F-L-1-F-0L6H-A4P
		G1/4	0.06 ... 6 571299 VPPM-8L-L-1-G14-0L6H-A4P
	G1/8	0.02 ... 2	542230 VPPM-6L-L-1-G18-0L2H-A4N-S1
		0.06 ... 6	542231 VPPM-6L-L-1-G18-0L6H-A4N-S1 554041 VPPM-6L-L-1-G18-0L6H-A4P-S1
		0.1 ... 10	575128 VPPM-6L-L-1-G18-0L6H-A4P-S1C1 542232 VPPM-6L-L-1-G18-0L10H-A4N-S1 554042 VPPM-6L-L-1-G18-0L10H-A4P-S1 558336 VPPM-6L-L-1-G18-0L10H-A4P-S1C1
		Sub-base	0.02 ... 2 0.06 ... 6 0.1 ... 10 542242 VPPM-6F-L-1-F-0L2H-A4N-S1 542243 VPPM-6F-L-1-F-0L6H-A4N-S1 571283 VPPM-8F-L-1-F-0L6H-A4P-S1 571284 VPPM-8F-L-1-F-0L6H-A4P-S1C1 542244 VPPM-6F-L-1-F-0L10H-A4N-S1
		G1/4	0.1 ... 10 571288 VPPM-8L-L-1-G14-0L10H-A4N-S1 571289 VPPM-8L-L-1-G14-0L10H-A4P-S1 571290 VPPM-8L-L-1-G14-0L10H-A4P-S1C1 0.06 ... 6 571302 VPPM-8L-L-1-G14-0L6H-A4N-S1 571303 VPPM-8L-L-1-G14-0L6H-A4N-S1C1 571300 VPPM-8L-L-1-G14-0L6H-A4P-S1 571301 VPPM-8L-L-1-G14-0L6H-A4P-S1C1
	G1/2	0.1 ... 10	575232 VPPM-12L-L-1-G12-0L10H-A4N-S1 575233 VPPM-12L-L-1-G12-0L10H-A4P-S1 575234 VPPM-12L-L-1-G12-0L10H-A4P-S1C1
		0.06 ... 6	575242 VPPM-12L-L-1-G12-0L6H-A4P-S1 575243 VPPM-12L-L-1-G12-0L6H-A4P-S1C1 575244 VPPM-12L-L-1-G12-0L6H-A4N-S1 575245 VPPM-12L-L-1-G12-0L6H-A4N-S1C1
For valve terminal			
Overall accuracy 2%	Via valve terminal	0.02 ... 2	542220 VPPM-6TA-L-1-F-0L2H 572410 VPPM-8TA-L-1-F-0L2H-C1
		0.06 ... 6	542221 VPPM-6TA-L-1-F-0L6H 572411 VPPM-8TA-L-1-F-0L6H-C1
		0.02 ... 10	542222 VPPM-6TA-L-1-F-0L10H 572412 VPPM-8TA-L-1-F-0L10H-C1
		0.02 ... 2	542217 VPPM-6TA-L-1-F-0L2H-S1 572407 VPPM-8TA-L-1-F-0L2H-S1C1
		0.06 ... 6	542218 VPPM-6TA-L-1-F-0L6H-S1 572408 VPPM-8TA-L-1-F-0L6H-S1C1
Overall accuracy 1%	Via valve terminal	0.02 ... 10	542219 VPPM-6TA-L-1-F-0L10H-S1 572409 VPPM-8TA-L-1-F-0L10H-S1C1

Proportional pressure regulators VPPM

Technical data

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Ordering data		Pressure regulation range [bar]	Part No.	Type
VPPM with IO-Link interface	Pneumatic connection 1, 2, 3			
Overall accuracy 1%	G ¹ / ₈	0.02 ... 2	8024258	VPPM-6L-L-1-G18-0L2H-LK-S1
		0.06 ... 6	8024259	VPPM-6L-L-1-G18-0L6H-LK-S1
		0.1 ... 10	8024260	VPPM-6L-L-1-G18-0L10H-LK-S1
	Sub-base	0.02 ... 2	8031107	VPPM-6F-L-1-F-0L2H-LK-S1
		0.06 ... 6	8031108	VPPM-6F-L-1-F-0L6H-LK-S1
		0.1 ... 10	8031109	VPPM-6F-L-1-F-0L10H-LK-S1
	G ¹ / ₄	0.02 ... 2	8024261	VPPM-8L-L-1-G14-0L2H-LK-S1
		0.06 ... 6	8024262	VPPM-8L-L-1-G14-0L6H-LK-S1
		0.1 ... 10	8024263	VPPM-8L-L-1-G14-0L10H-LK-S1
	Sub-base	0.02 ... 2	8031110	VPPM-8F-L-1-F-0L2H-LK-S1
		0.06 ... 6	8031111	VPPM-8F-L-1-F-0L6H-LK-S1
		0.1 ... 10	8031112	VPPM-8F-L-1-F-0L10H-LK-S1
	G ¹ / ₂	0.02 ... 2	8024264	VPPM-12L-L-1-G12-0L2H-LK-S1
		0.06 ... 6	8024265	VPPM-12L-L-1-G12-0L6H-LK-S1
		0.1 ... 10	8024266	VPPM-12L-L-1-G12-0L10H-LK-S1

Proportional pressure regulators VPPM

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Ordering data – Modular products

M Mandatory data

Module No.	Design	Nominal diameter	Valve type	Dynamic response	Valve mode	Type of connection
543432	VPPM	6	L F T	L	1	G18 F F
543433		8	L F T			G14 F F
543435		12	L			G12
Order example	543432	VPPM	- 6	F	- L	- 1
						- F

Ordering table

Size	6	Conditions	Code	Enter code
Module No.	543432			
Design	Modular pressure regulator		VPPM	VPPM
Nominal diameter	6		-6	
	8		-8	
	12	[1]	-12	
Valve type	In-line	[2]	L	
	Flanged valve	[3]	F	
	Flanged valve for valve terminal	[4]	T	
Dynamic response	Low dynamic response (pilot-actuated, soft-sealing)		-L	-L
Valve mode	3/2-way valve, normally closed		-1	-1
Type of connection	G1/8 thread		-G18	
	G1/4 thread		-G14	
	G1/2 thread		-G12	
	Flange/sub-base		-F	

[1] 12 Only with valve type L (In-Line)

[2] L Only with connection type G18, G14, G12 (G1/8, G1/4, G1/2 thread)

[3] F Only with connection type F (flange/sub-base)

[4] T Only with connection type F (flange/sub-base)

Order code

543432	VPPM	- 6		- L	- 1	
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Proportional pressure regulators VPPM

Ordering data – Modular products

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→ <input checked="" type="checkbox"/> M Mandatory data					<input type="checkbox"/> O Options	
Pressure regulation range	Alternative lower pressure regulation range	Alternative upper pressure regulation range	Setpoint specification	Switching output	Overall accuracy	Operator unit
OL2H OL6H OL10H	0.1 ... 10L	0.1 ... 10H	V1 A4 LK	P N	S1	C1

- **6.5L** - **7.1H** - **A4** - **P** - **S1** - **C1**

Ordering table		Conditions	Code	Enter code
Size	6			
▼ <input checked="" type="checkbox"/> M Pressure regulation range	0 ... 2 bar 0 ... 6 bar 0 ... 10 bar		-OL2H -OL6H -OL10H	
Alternative lower pressure regulation range	0.1 ... 10 bar	[4]	...L	
Alternative upper pressure regulation range	0.1 ... 10 bar	[5]	...H	
Setpoint specification	Voltage (standard 0 ... 10 V) IO-Link Current (standard 4 ... 20 mA)		-V1 -LK -A4	
Switching output	Positive switching Negative switching		P N	
Overall accuracy	1%		-S1	
Operator unit	With LCD, pressure unit variable		C1	

[4] ...L Not with pressure regulation range (OL2H, OL6H, OL10H).

Must always be less than alternative upper pressure regulation range H

[5] ...H Not with pressure regulation range (OL2H, OL6H, OL10H).

Must always be greater than alternative lower pressure regulation range L

Transfer order code

- - -

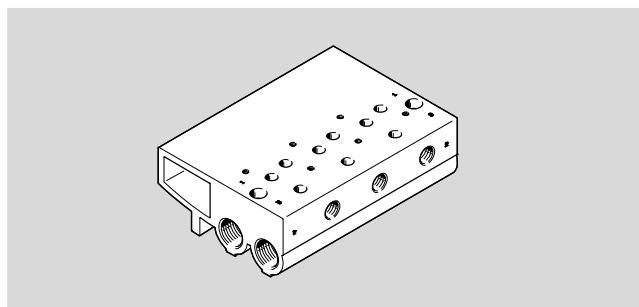
Proportional pressure regulators VPPM

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Accessories

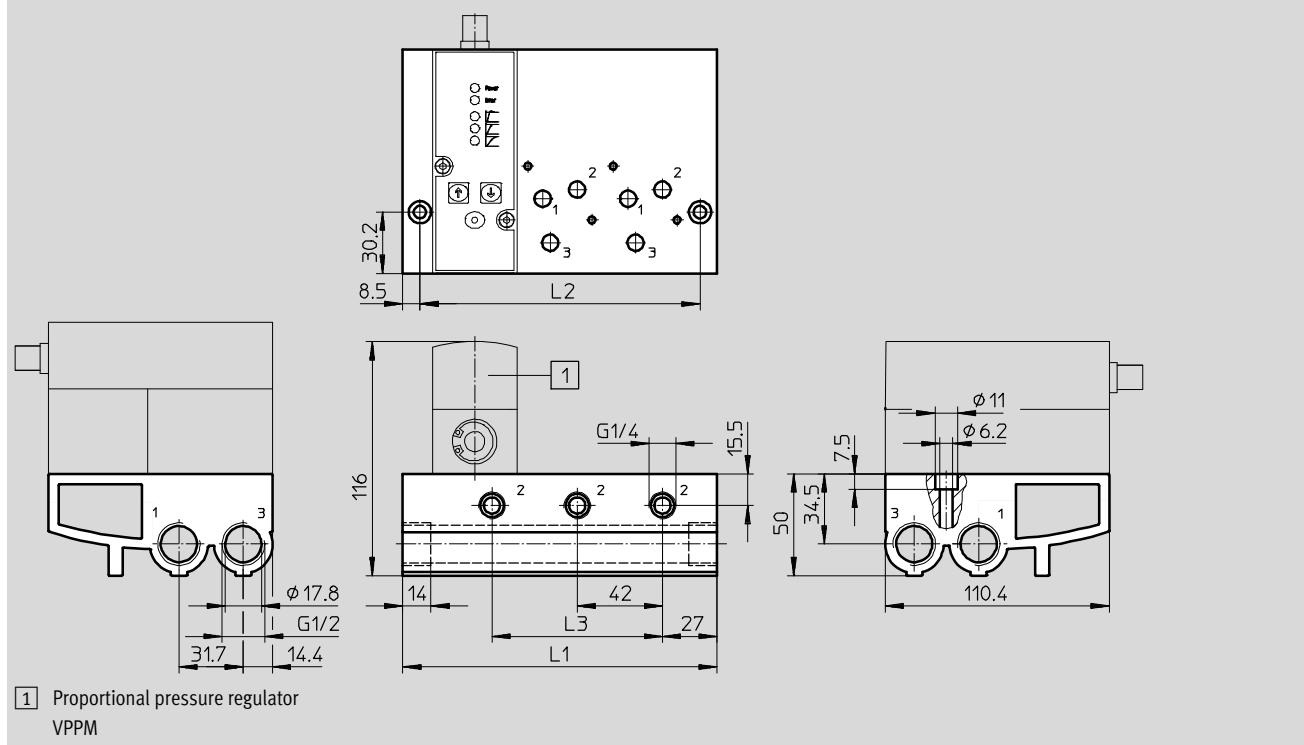
Sub-base
VABM-P1

Material:
Wrought aluminium alloy



Dimensions

Download CAD data ➔ www.festo.com



Dimensions and ordering data

Valve positions	L1	L2	L3	Weight [g]	CRC ¹⁾	Part No.	Type
2	113	96	42	900	2	542252	VABM-P1-SF-G14-2-P3
3	155	138	84	1,230	2	542253	VABM-P1-SF-G14-3-P3
4	197	180	126	1,565	2	542254	VABM-P1-SF-G14-4-P3

1) Corrosion resistance class 2 as per Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.



Note
Flanged valves VPPM-6F... and VPPM-8F... must be used in combination with the manifold block VABM-P1....

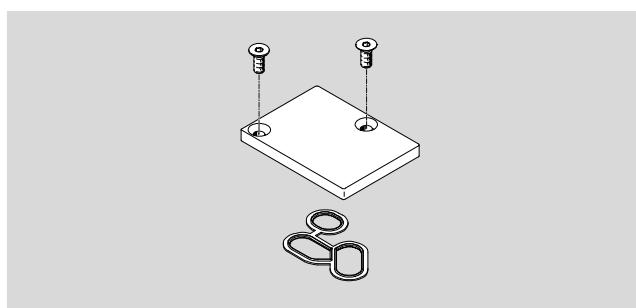
Proportional pressure regulators VPPM

Accessories

FESTO

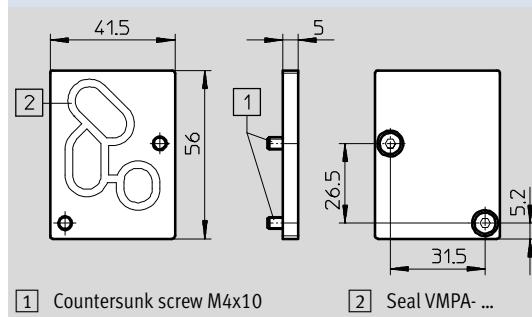
Blanking plate
VABB-P1

Material:
Wrought aluminium alloy, NBR, steel



Dimensions

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Ordering data

Weight [g]	CRC	Part No.	Type
35	11)	558350	VABB-P1

- 1) Corrosion resistance class 1 as per Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

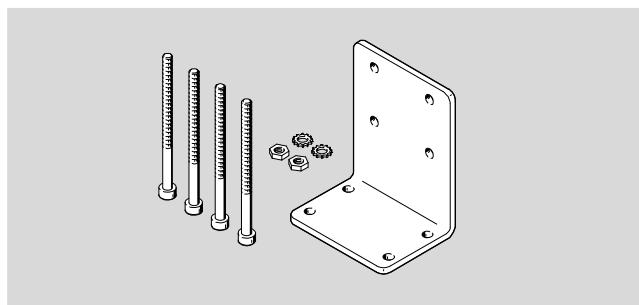
Proportional pressure regulators VPPM

FESTO

Accessories

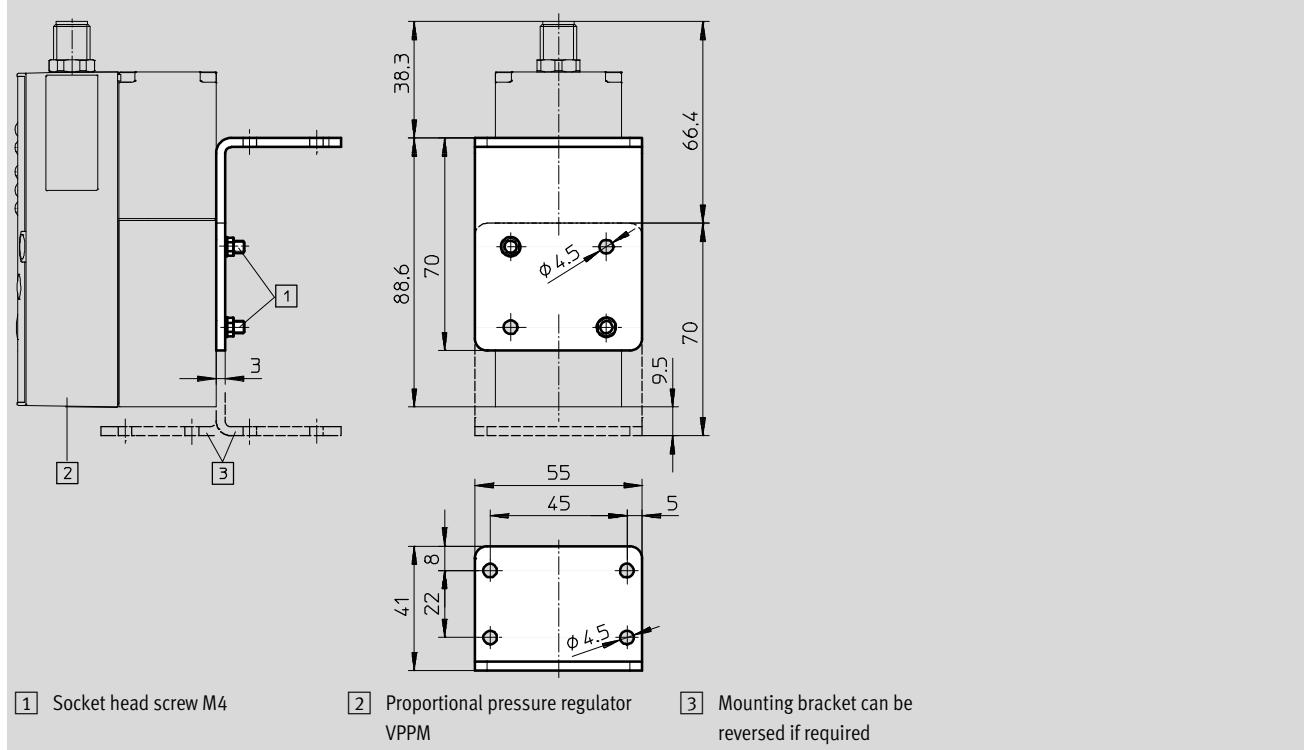
Mounting bracket
VAME-P1-A

Material:
Wrought aluminium alloy, steel



Dimensions

Download CAD data → www.festo.com



Ordering data

Weight [g]	CRC	Part No. Type
71	1 ¹⁾	542251 VAME-P1-A

1) Corrosion resistance class 1 as per Festo standard 940 070

Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.



Note

In-line valves VPPM-6L... and VPPM-8L... must be used in combination with the bracket VAME-P1-A.

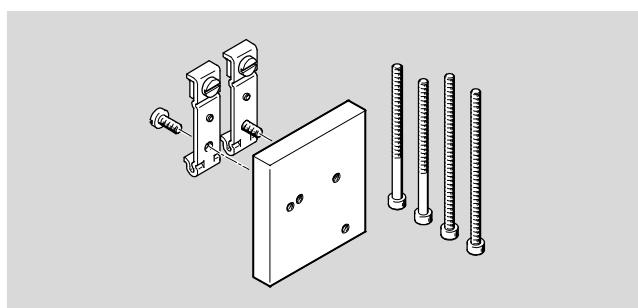
Proportional pressure regulators VPPM

Accessories

FESTO

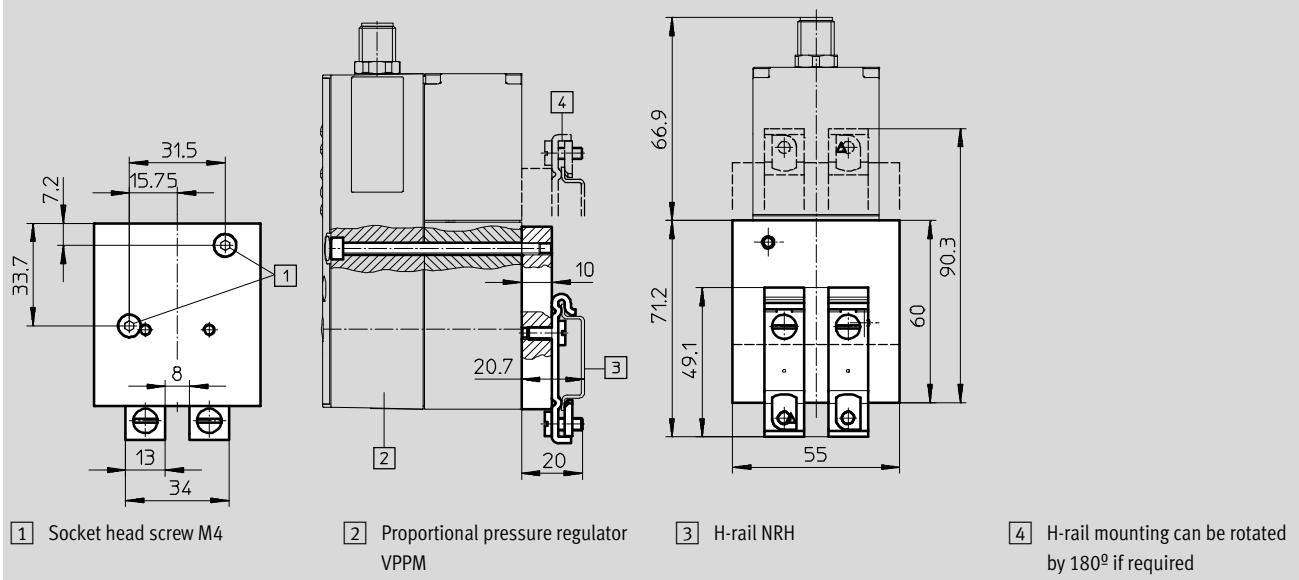
H-rail mounting VAME-P1-T

Material:
Wrought aluminium alloy, steel



Dimensions

Download CAD data → www.festo.com



Ordering data

Weight [g]	CRC	Part No.	Type
150	11)	542255	VAME-P1-T

- 1) Corrosion resistance class 1 as per Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.



Note
In-line valves VPPM-6L... and VPPM-8L... must be used in combination with the H-rail VAME-P1-T.

Proportional pressure regulators VPPM

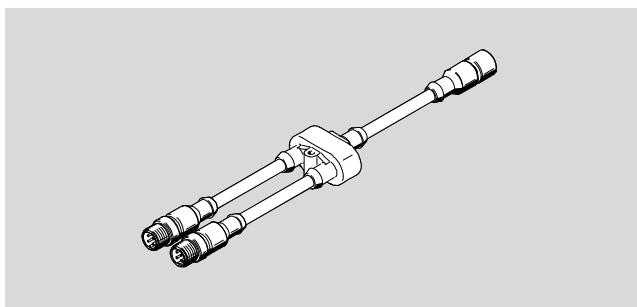
FESTO

Accessories

Plug socket with cable

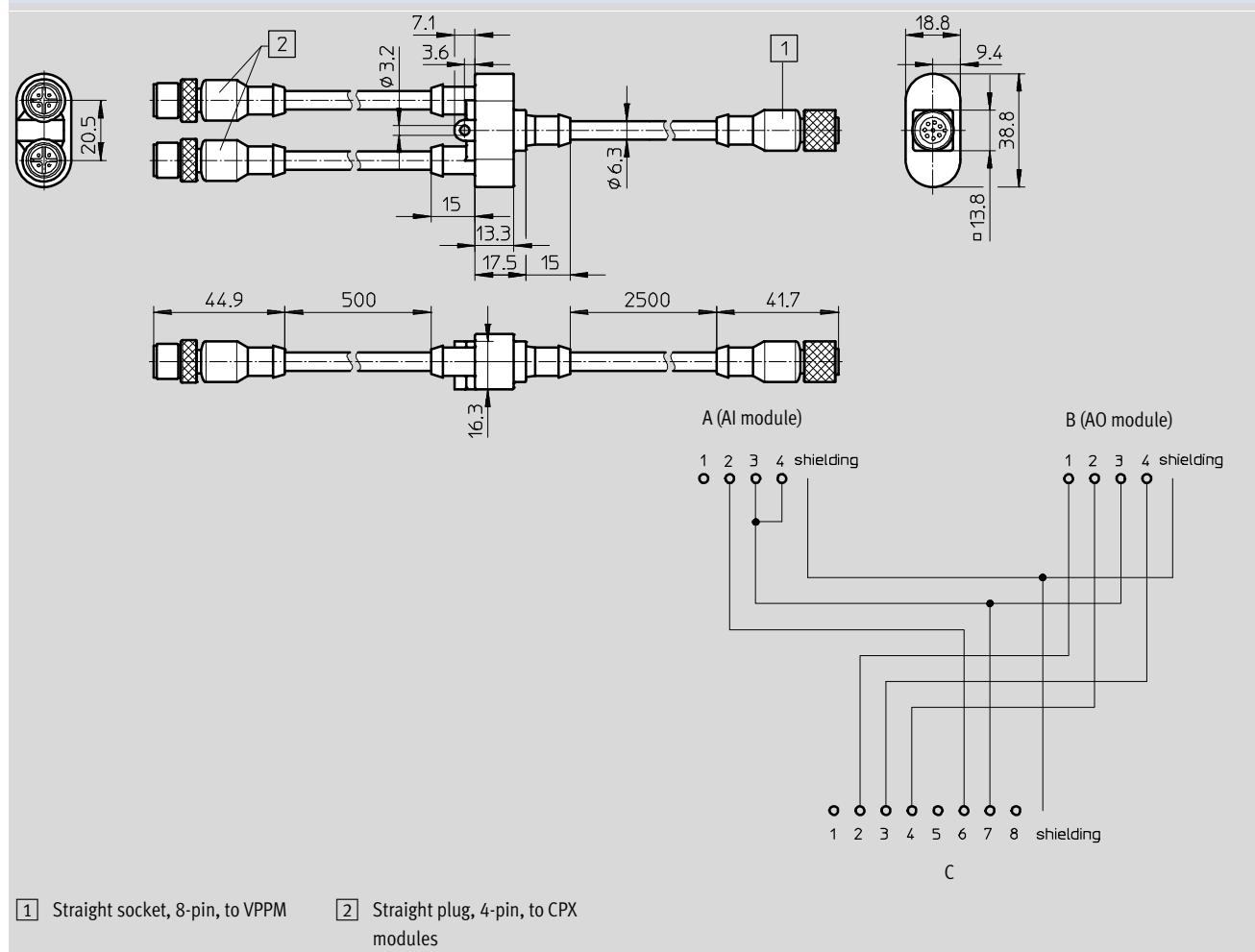
NEBV-M12G8-KD-3-M12G4

For connecting the VPPM with the analogue input and output modules of the controller CPX.



Dimensions and pin allocation

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[1] Straight socket, 8-pin, to VPPM

[2] Straight plug, 4-pin, to CPX
modules

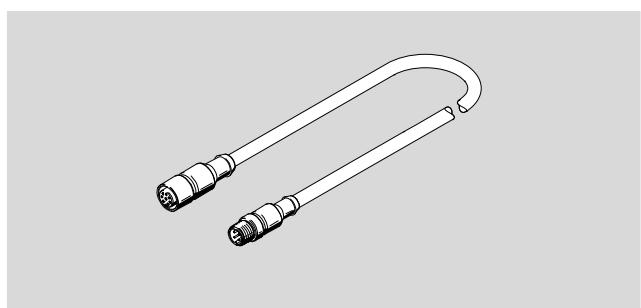
Proportional pressure regulators VPPM

Accessories

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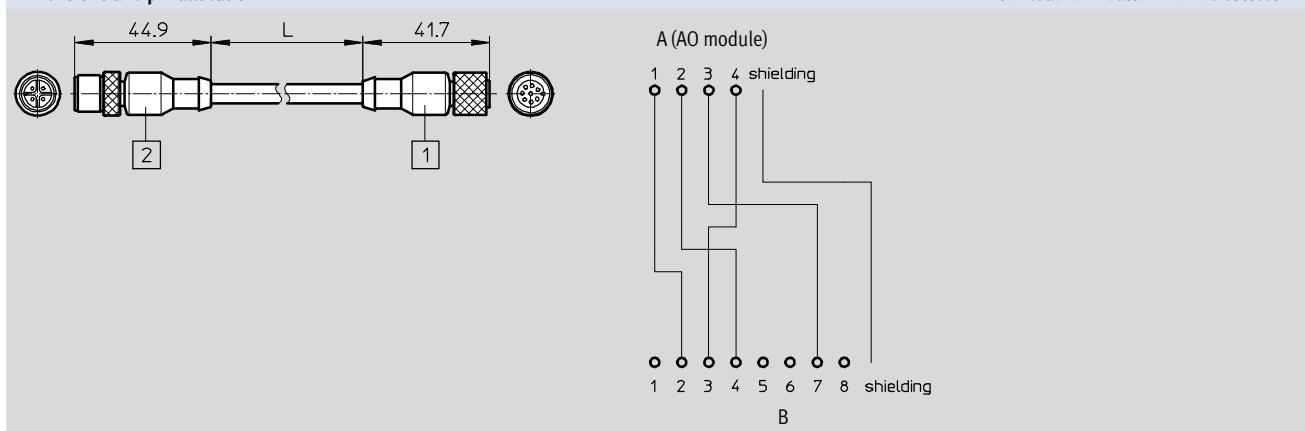
Plug socket with cable NEBV-M12G8-K-5-M12G4

For connecting the VPPM with the analogue output modules of the controller CPX.



Dimensions and pin allocation

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Type	[2]	[1]	L1
NEBV-M12G8-K-2-M12G4	Straight socket, M12, 8-pin to VPPM	Straight plug, M12, 4-pin to CPX module	2 m
NEBV-M12G8-K-5-M12G4			5 m

Ordering data		Description	Part No.	Type
Connecting cable				Technical data → Internet: connecting cable
Straight socket, 8-pin, M12				
		2 m	525616	SIM-M12-8GD-2-PU
		5 m	525618	SIM-M12-8GD-5-PU
		10 m	570008	SIM-M12-8GD-10-PU
Angled socket, 8-pin, M12				
		2 m	542256	NEBU-M12W8-K-2-N-LE8
		5 m	542257	NEBU-M12W8-K-5-N-LE8
		10 m	570007	NEBU-M12W8-K-10-N-LE8
One straight socket, 8-pin, and one straight plug, 4-pin				
		2 m	553575	NEBV-M12G8-K-2-M12G4
		5 m	553576	NEBV-M12G8-K-5-M12G4
One straight socket, 8-pin, and two straight plugs, 4-pin				
			547888	NEBV-M12G8-KD-3-M12G4
Setpoint module				Technical data → Internet: mpz
Generation of 6+1 analogue setpoint values				546224 MPZ-1-24DC-SGH-6-SW5

Ordering data IO-Link		Description	Part No.	Type
Connecting cable				Technical data → Internet: connecting cable
Straight socket, 5-pin, M12x1, protection class IP65, IP68, IP69K				
		5 m	574321	NEBU-M12G5-E-5-Q8N-M12G5
		7.5 m	574322	NEBU-M12G5-E-7.5-Q8N-M12G5
		10 m	574323	NEBU-M12G5-E-10-Q8N-M12G5

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