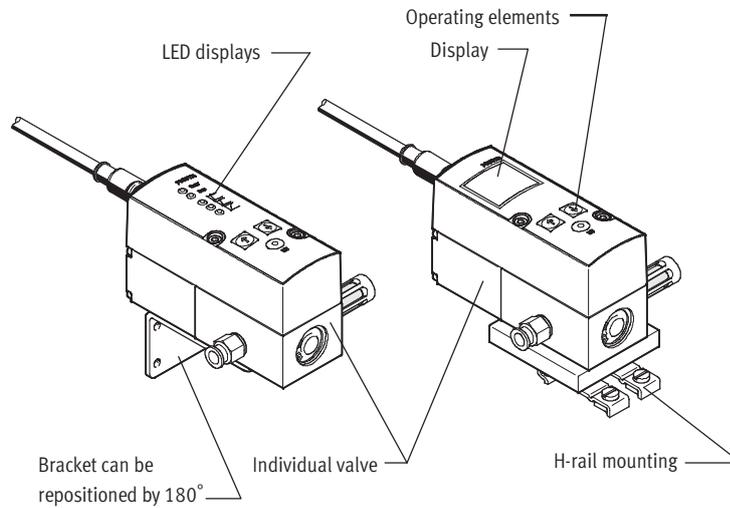


Proportional pressure regulators VPPM, NPT



Proportional pressure regulators VPPM, NPT

Key features



Innovative

- Multi-sensor control (cascade control)
- Diagnostics
- Choice of regulation characteristic
- Temperature compensated
- High dynamic response
- High repetition accuracy
- Modular product system

Versatile

- Individual valves (in-line valve)
- Various user interfaces
 - LED displays
 - LCD display
 - Adjustment/selection buttons
- 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 separate output
- Cable break monitoring
- Pressure is maintained if the controller fails

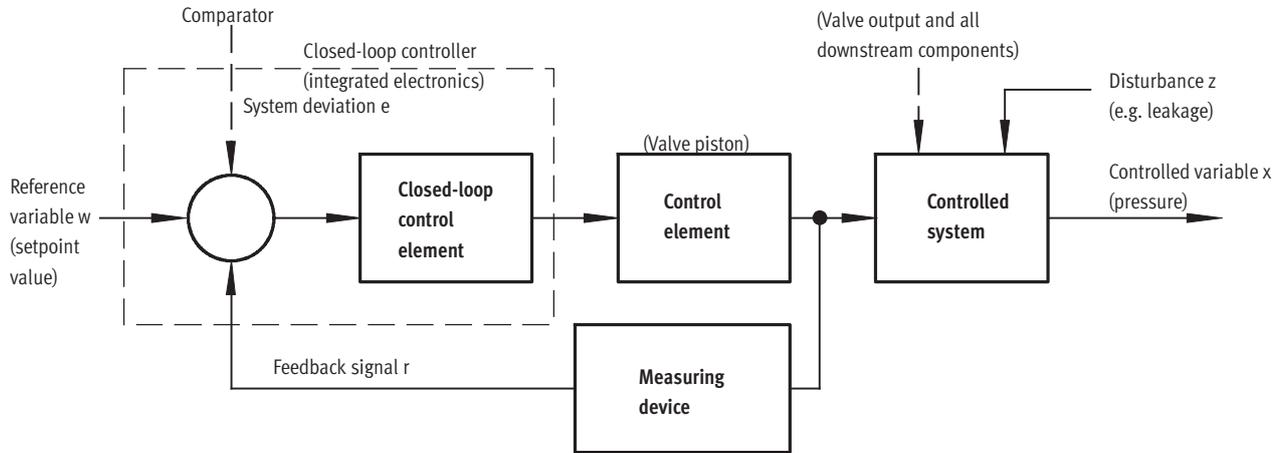
Easy to mount

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

Proportional pressure regulators VPPM, NPT

Key features

Layout of a control circuit



Setup

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 value of the controlled variable x (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

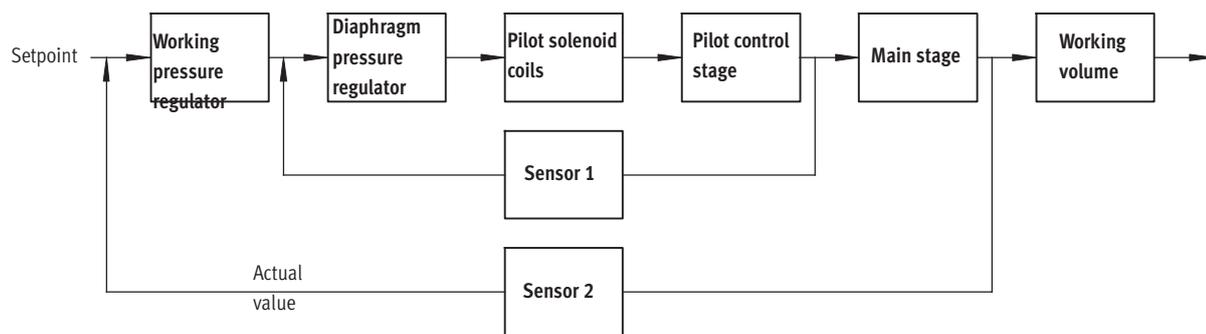
control element. The output of the final control element acts on the controlled system. The closed-loop control element thus attempts to compensate for the difference between the reference variable w and the controlled variable x by using the final control element.

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

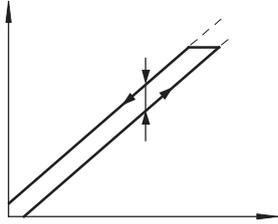
dynamic response in comparison with single-acting regulators.

Proportional pressure regulators VPPM, NPT

Key features

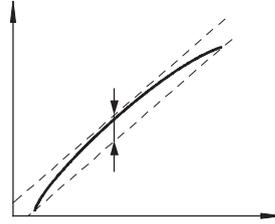
Terms related to the proportional pressure regulator

Hysteresis



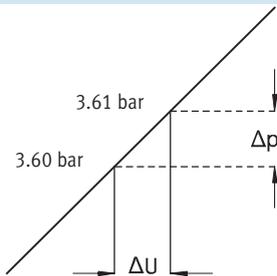
There is always a linear relationship within a certain tolerance between the setpoint value entered and the pressure output. Nevertheless it makes a difference whether the setpoint value is entered as rising or falling. The difference between the maximum deviations is referred to as hysteresis.

Linearity error



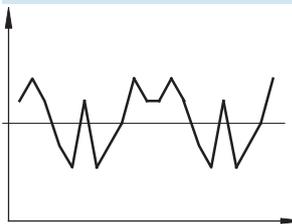
A perfectly linear progression of the control characteristic of the output pressure is theoretical. The maximum percentage deviation from this theoretical control characteristic is referred to as the linearity error. The percentage value refers to the maximum output pressure (full scale).

Response sensitivity



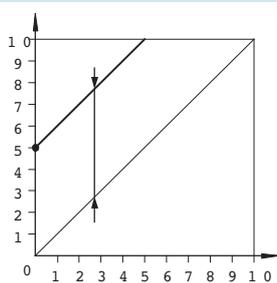
The response sensitivity of the device determines how sensitively one can change, i.e. adjust, a pressure. The smallest setpoint value difference that results in a change in the output pressure is referred to as the response sensitivity. In this case, 0.01 bar.

Repetition accuracy (reproducibility)



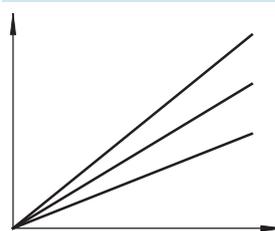
The repetition accuracy is the margin within which the fluid output variables are scattered when the same electrical input signal coming from the same direction is repeatedly adjusted. The repetition accuracy is expressed as a percentage of the maximum fluid output signal.

Zero offset



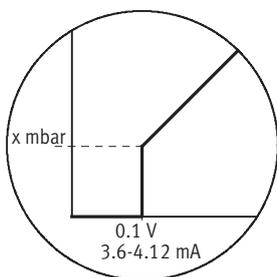
If, for example, a VPPM cannot be vented for safety reasons, the minimum pressure can be increased from the zero point. The smallest setpoint value is then assigned an output pressure of 5 bar, for example, and the largest setpoint value an output pressure of 10 bar. Zero suppression is automatically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

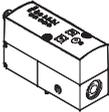
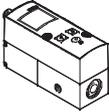
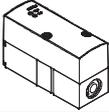
Zero point suppression



In practice it is possible that there is 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, NPT

Product range overview

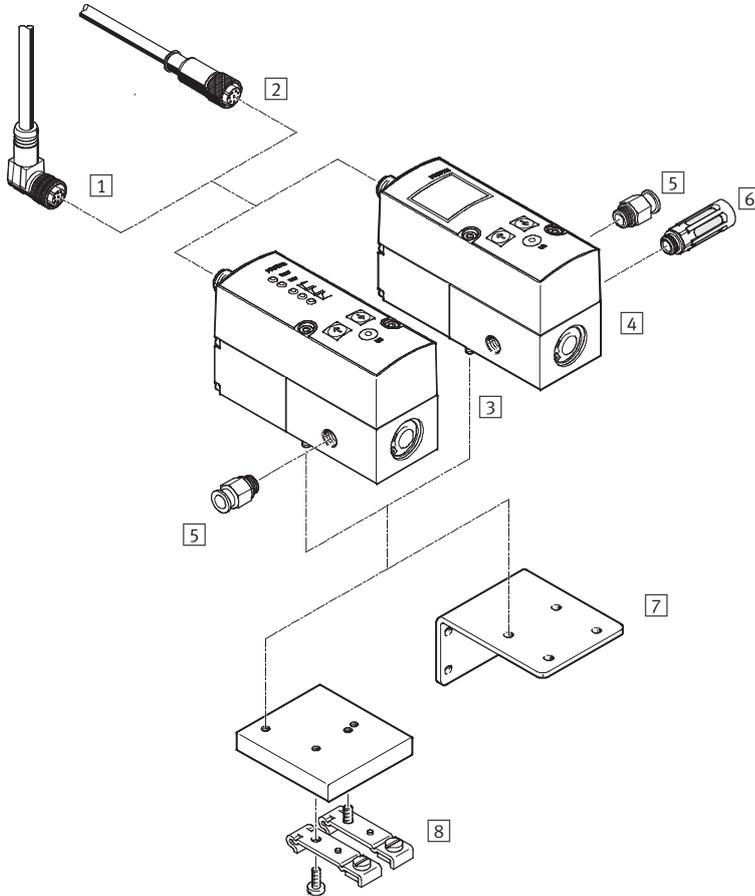
Function	Version	Design	Pneumatic connection 1, 2, 3	Nominal size pressurise/e xhaust [mm]	Pressure regulation range [psi]	Setpoint input			→ Page/ Internet
						Voltage type 0 ... 10 V	Current type 4 ... 20 mA	Digital –	
Pressure regulators	With LED								
		Pilot actuated diaphragm valve	1/8" NPT	6/4.5	0 ... 29.4 0 ... 88.2 0 ... 147	■	■	–	11
			1/4" NPT	8/7	0 ... 29.4 0 ... 88.2 0 ... 147	■	■	–	
	With LCD display								
		Pilot actuated diaphragm valve	1/8" NPT	6/4.5	0 ... 29.4 0 ... 88.2 0 ... 147	■	■	–	11
			1/4" NPT	8/7	0 ... 29.4 0 ... 88.2 0 ... 147	■	■	–	
For valve terminal type 32 MPA, with LED display									
	Pilot actuated diaphragm valve	Sub-base MPA	6/4.5, 8/7	0 ... 29.4 0 ... 88.2 0 ... 147	–	–	■	type 32	

Proportional pressure regulators VPPM, NPT

Peripherals overview

FESTO

Individual valve

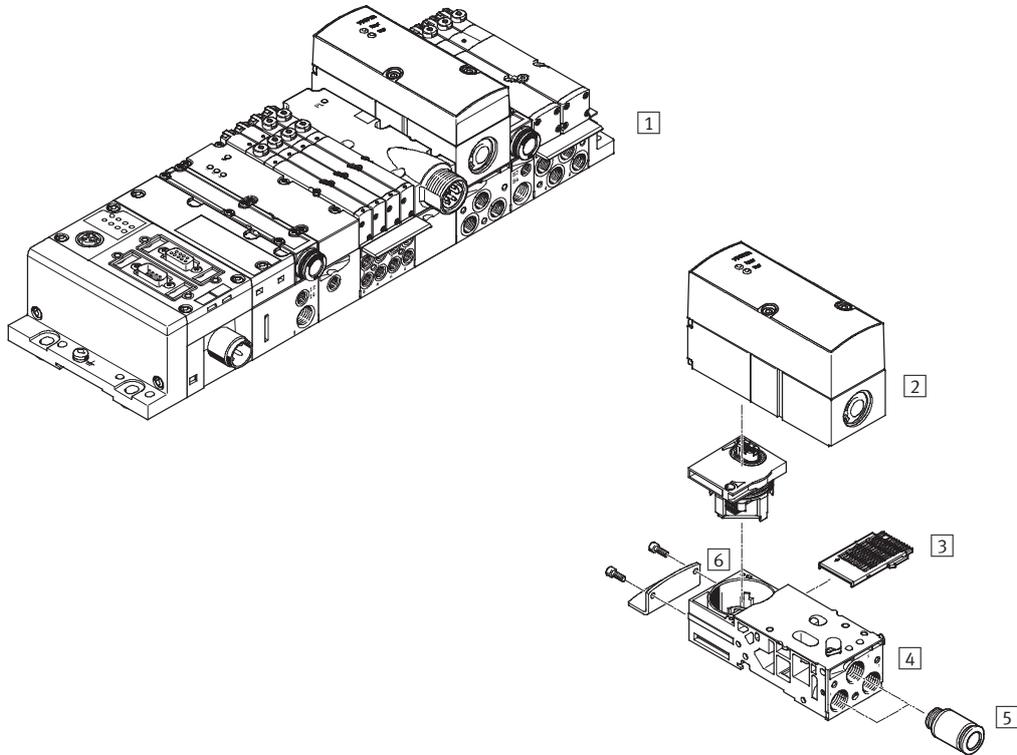


Accessories		Brief description	→ Page/Internet
1	Angled plug socket with cable NEBU-M12W8-...	–	23
2	Straight plug socket with cable SIM-M12-8GD-...	–	23
3	Proportional pressure regulator VPPM	Operator unit with LED	11
4	Proportional pressure regulator VPPM	Operator unit with LCD	11
5	Push-in fitting QS	For connecting compressed air tubing with standard O.D.	qs
6	Silencer	For fitting in exhaust ports	u
7	Bracket VAME-P1-A	For mounting the valve	20
8	H-rail mounting VAME-P1-T	For mounting on a H-rail	21

Proportional pressure regulators VPPM, NPT

System overview

VPPM for valve terminal type 32 MPA



Accessories		
	Brief description	→ Page/Internet
1	Valve terminal type 32 MPA With fieldbus connection and VPPM	type 32
2	Proportional pressure regulator VPPM For valve terminal type 32 MPA	type 32
3	Electrical interlinking module VMPA1-FB-EV-AB For sub-base of the proportional pressure regulator	type 32
4	Sub-base VMPA-FB-AP-P1 Without electrical interlinking module and without electrical module	type 32
5	Push-in fitting QS -	qs
6	Mounting attachment VMPA-BG -	type 32

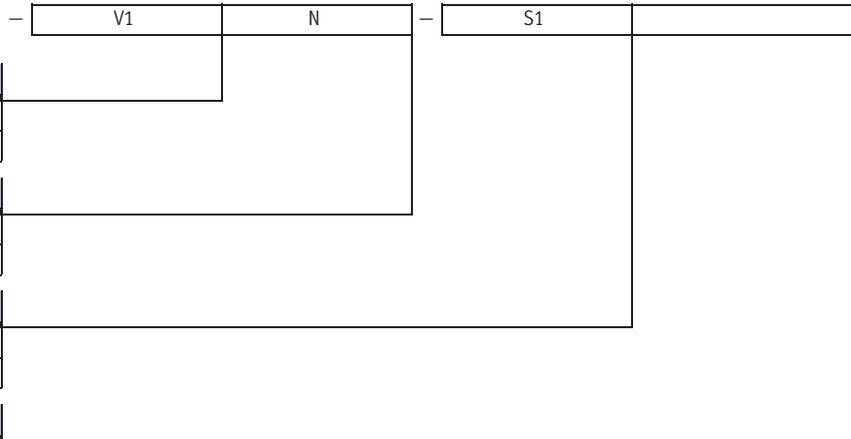
Proportional pressure regulators VPPM, NPT

Type codes

		VPPM	-	6	L		-	L	-	1	-	N18	-	0L	6H	-	1L	-	6H
Type																			
VPPM	Modular proportional pressure regulator																		
Nominal size																			
6	6 mm																		
8	8 mm																		
Design																			
L	In-line valve																		
Mounting method																			
-	Freely mountable																		
Dynamic response class																			
L	Low																		
Valve function																			
1	3/2-way solenoid valve, normally closed																		
Pneumatic connection																			
N18	Thread 1/8" - 27 NPT																		
N14	Thread 1/4" - 18 NPT																		
Lower pressure value of regulation range																			
0L	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, NPT

Type codes



Setpoint specification for individual valve

V1	0 ... 10 V
A4	4 ... 20 mA

Switching output

N	Negative switching
P	Positive switching

Accuracy

-	2% (standard)
S1	1%

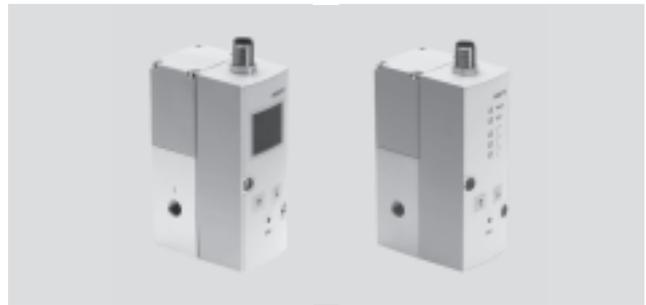
Operator unit

-	LED (standard)
C1	With LCD, pressure unit variable

Proportional pressure regulators VPPM, NPT

Technical data

<p>Flow rate 380 ... 2,750 l/min</p> <p>Voltage 21.6 ... 26.4 V DC</p> <p>Pressure 0 ... 147 psi</p>	<p>Variants</p> <ul style="list-style-type: none"> • 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			1/8" NPT	1/4" NPT
Design			Piloted diaphragm regulator	
Sealing principle			Soft	
Actuation type			Electric	
Type of control			Piloted	
Type of mounting			Via through-hole, via accessories	
Mounting position			Any	
Nominal size	Pressurisation	[mm]	6	8
	Exhaust	[mm]	4.5	7
Standard nominal flow rate		[l/min]	→ Graphs	
Product weight		[g]	400	500

Electrical data			
Electrical connection			Plug, round design, 8-pin, M12
Operating voltage range		[V DC]	24 ± 10% = 21.6 ... 26.4
Residual ripple			10%
Max. electrical power consumption		[W]	7
Setpoint input signal	Voltage	[V DC]	0 ... 10
	Current	[mA]	4 ... 20
Protection against short circuit			For all electrical connections
Reverse polarity protection			For all electrical connections
Protection class			IP65
CE marking			EU conformity in accordance with the directive 89/336/EEC (EMC)

Note

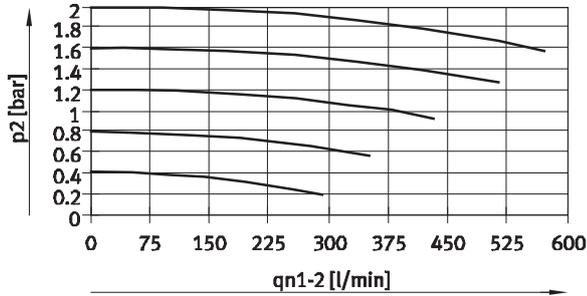
Output pressure is maintained unregulated if the power supply cable is interrupted.

Proportional pressure regulators VPPM, NPT

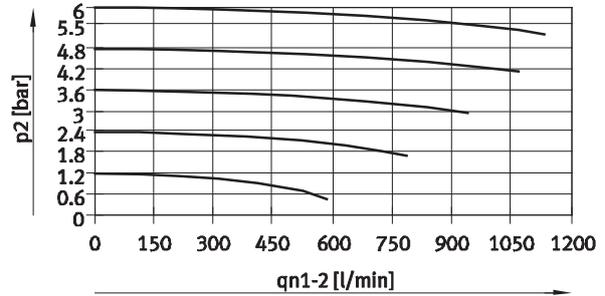
Technical data

Flow rate q_n from 1 \rightarrow 2 as a function of output pressure p_2

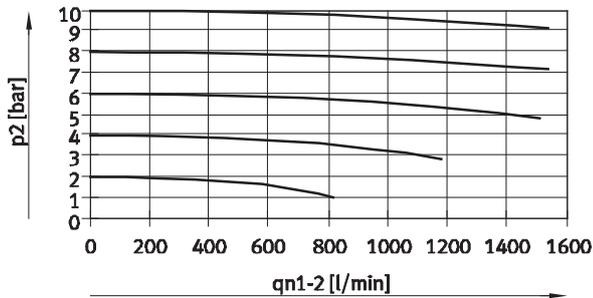
VPPM-6L-...-0L2H-... (29.4 psi/2 bar)



VPPM-6L-...-0L6H-... (88.2 psi/6 bar)

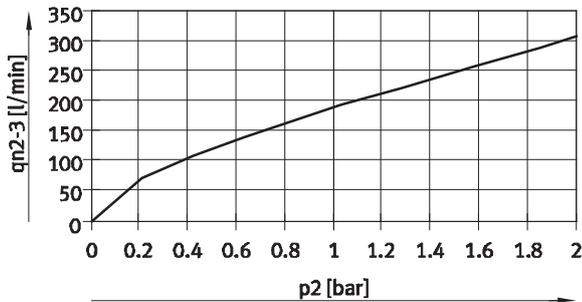


VPPM-6L-...-0L10H-... (147 psi/10 bar)



Flow rate q_n from 2 \rightarrow 3 as a function of output pressure p_2

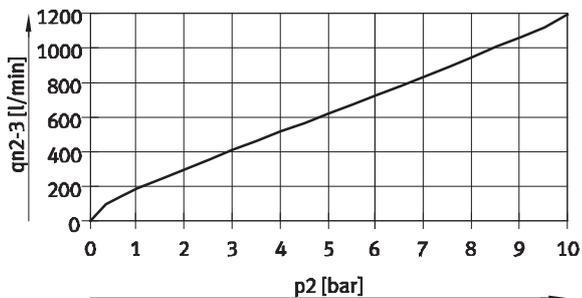
VPPM-6L-...-0L2H-... (29.4 psi/2 bar)



VPPM-6L-...-0L6H-... (88.2 psi/6 bar)



VPPM-6L-...-0L10H-... (147 psi/10 bar)

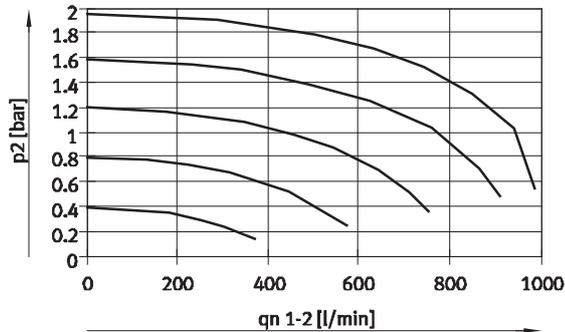


Proportional pressure regulators VPPM, NPT

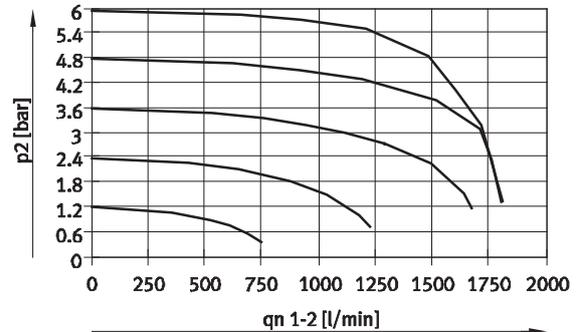
Technical data

Flow rate q_n from 1 \rightarrow 2 as a function of output pressure p_2

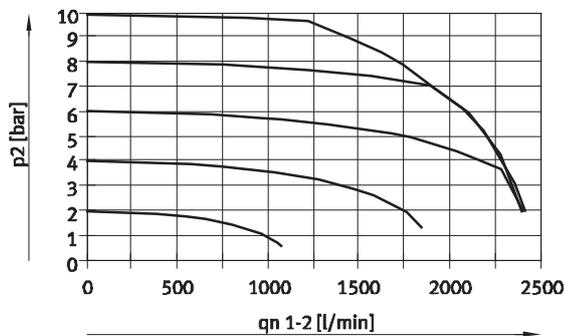
VPPM-8L-...-0L2H-... (29.4 psi/2 bar)



VPPM-8L-...-0L6H-... (88.2 psi/6 bar)

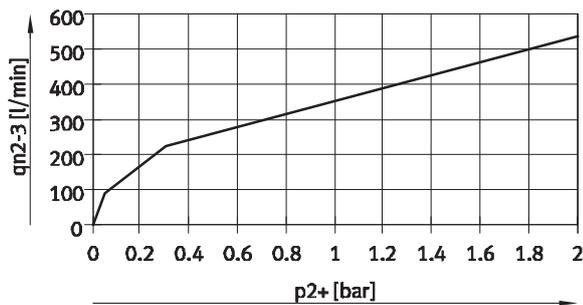


VPPM-8L-...-0L10H-... (147 psi/10 bar)



Flow rate q_n from 2 \rightarrow 3 as a function of output pressure p_2

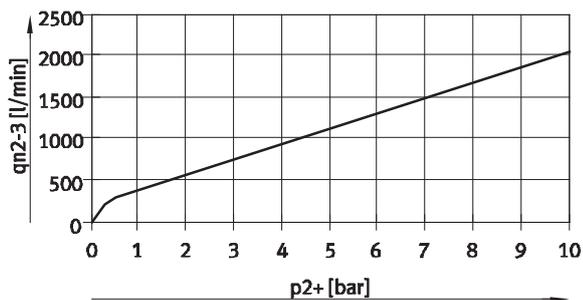
VPPM-8L-...-0L2H-... (29.4 psi/2 bar)



VPPM-8L-...-0L6H-... (88.2 psi/6 bar)



VPPM-8L-...-0L10H-... (147 psi/10 bar)



Proportional pressure regulators VPPM, NPT

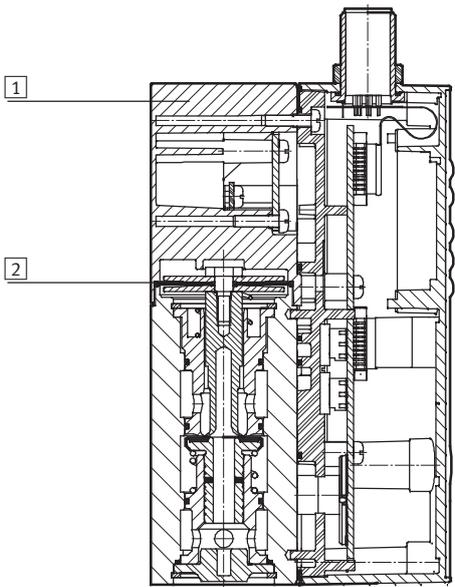
Technical data

Operating and environmental conditions				
Pressure regulation range	[psi]	0 ... 29.4	0 ... 88.2	0 ... 147
	[bar]	0.02 ... 2	0.06 ... 6	0.1 ... 10
Operating medium		Filtered, unlubricated compressed air, grade of filtration 40 µm Neutral gases		
Supply pressure 1 ²⁾	[bar]	2 ... 4	2 ... 8	2 ... 11
Max. pressure hysteresis	[mbar]	10	30	50
FS (full scale) linearity error	[%]	± 0.5		
FS (full scale) repetition accuracy	[%]	0.5		
Temperature coefficient	[%/°C]	0.04/1		
Ambient temperature	[°C]	0 ... 60		
Temperature of medium	[°C]	10 ... 50		
Note on materials		RoHS-compliant		
Corrosion resistance class	[CRC]	2 ¹⁾		

- 1) Corrosion resistance class 2 according to 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.
- 2) Supply pressure 1 should always be 1 bar greater than the maximum regulated output pressure.

Materials

Sectional view



1	Housing	Wrought aluminium alloy
2	Diaphragm	Nitrile rubber

Proportional pressure regulators VPPM, NPT

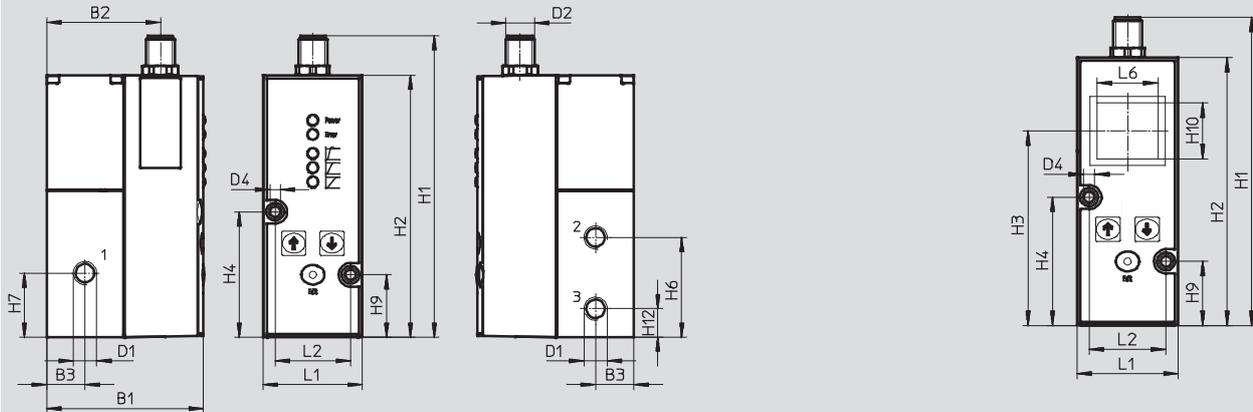
Technical data

Dimensions

Download CAD Data → www.festo.com/us/cad

VPPM-6L

With LCD

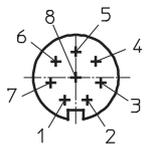


1 Socket head screw M4x65

Type	B1	B2	B3	D1 Ø	D2 Ø	D4 Ø	H1	H2	H3	H4	H6	H7	H9	H10	H12
VPPM-6L	65.5	47.5	16	1/8" NPT	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

M12 – Pin allocation



- | | | |
|---------------------------|---------------------|---------------------|
| 1 Digital input D1 | 4 Analogue input W+ | 7 0 V DC or GND |
| 2 +24 V DC supply voltage | 5 Digital input D2 | 8 Digital output D3 |
| 3 Analogue input W- | 6 Analogue output X | |

Proportional pressure regulators VPPM, NPT

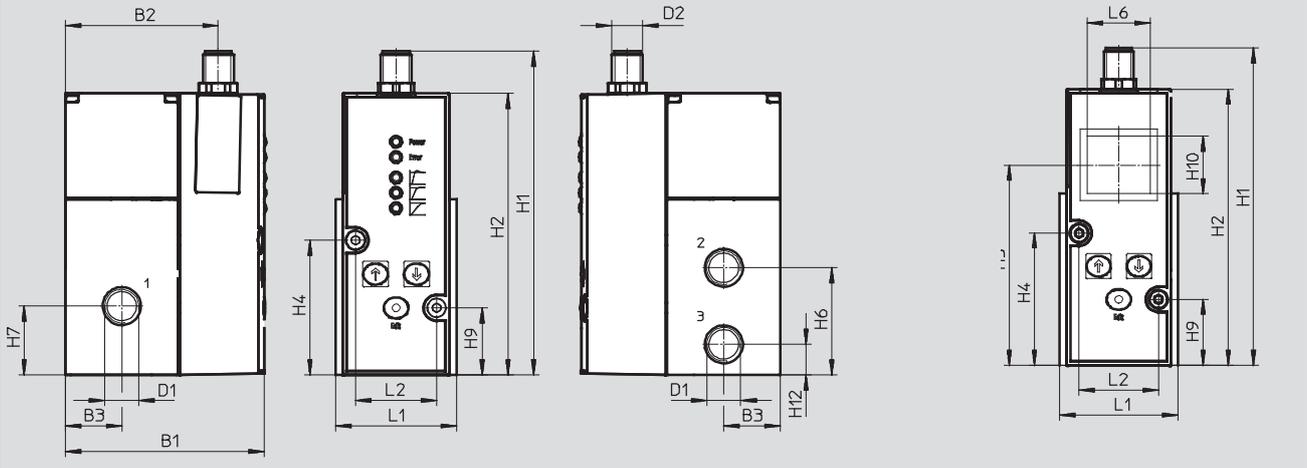
Technical data

Dimensions

Download CAD Data → www.festo.com/us/cad

VPPM-8L

With LCD



Type	B1	B2	B3	D1 Ø	D2 Ø	H1	H2	H3	H4	H6	H7	H9	H10	H12
VPPM-8L	77.4	59.5	22	1/4" NPT	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, NPT

Technical data

Ordering data				
Proportional pressure regulators VPPM	Pneumatic connection	Pressure regulation range [bar]	Part No.	Type
Voltage type 0 ... 10 V				
Overall accuracy 2%	1/8" NPT	0.02 ... 2	542211	VPPM-6L-L-1-N18-0L2H-V1N
		0.06 ... 6	542212	VPPM-6L-L-1-N18-0L6H-V1N
			558349	VPPM-6L-L-1-N18-0L6H-V1N-C1
			558343	VPPM-6L-L-1-N18-0L6H-V1P-C1
		0.1 ... 10	542213	VPPM-6L-L-1-N18-0L10H-V1N
Overall accuracy 1%	1/8" NPT	0.02 ... 2	542205	VPPM-6L-L-1-N18-0L2H-V1N-S1
		0.06 ... 6	542206	VPPM-6L-L-1-N18-0L6H-V1N-S1
			542207	VPPM-6L-L-1-N18-0L10H-V1N-S1
			558348	VPPM-6L-L-1-N18-0L10H-V1N-S1C1
		0.1 ... 10	558341	VPPM-6L-L-1-N18-0L10H-V1P-S1C1
			558348	VPPM-6L-L-1-N18-0L10H-V1N-S1C1
Current type 4 ... 20 mA				
Overall accuracy 2%	1/8" NPT	0.02 ... 2	542214	VPPM-6L-L-1-N18-0L2H-A4N
		0.06 ... 6	542215	VPPM-6L-L-1-N18-0L6H-A4N
			558344	VPPM-6L-L-1-N18-0L6H-A4P-C1
		0.1 ... 10	542216	VPPM-6L-L-1-N18-0L10H-A4N
Overall accuracy 1%	1/8" NPT	0.02 ... 2	542208	VPPM-6L-L-1-N18-0L2H-A4N-S1
		0.06 ... 6	542209	VPPM-6L-L-1-N18-0L6H-A4N-S1
			542210	VPPM-6L-L-1-N18-0L10H-A4N-S1
		0.1 ... 10	558342	VPPM-6L-L-1-N18-0L10H-A4P-S1C1

Proportional pressure regulators VPPM, NPT

Ordering data – Modular products

M Mandatory data →

Module No.	Design	Nominal size	Valve type	Dynamic response	Valve operating mode	Connection type
546953 546954	VPPM (NPT)	6 8	L L	L	1	N18 N14
Ordering example						
546953	VPPM	- 6	L	- L	- 1	- N18

Ordering table		Condition s	Code	Enter code
Size	6			
M Module No.	546953			
Design	Modular pressure regulator		VPPM	VPPM
Nominal size	6		-6	
	8		-8	
Valve type	In-line	1	L	
Dynamic response	Low dynamic response (pilot-actuated, soft-sealing)		-L	-L
Valve operating mode	3/2-way valve, normally closed		-1	-1
Connection type	NPT thread 1/8" NPT		-N18	
	NPT thread 1/4" NPT		-N14	

1 L Only with connection type N18, N14 (NPT thread 1/8" NPT, 1/4" NPT)

Proportional pressure regulators VPPM, NPT

Ordering data – Modular products

Mandatory data					Options	
Pressure regulation range	Alternative lower pressure regulation range	Alternative upper pressure regulation range	Setpoint specification	Switching output	Overall accuracy	Operator unit
0L2H 0L6H 0L10H	–	–	V1 A4	P N	S1	C1
	6.5L	7.1H	A4	P	S1	C1

Ordering table							
Size	6	Conditions		Code		Enter code	
↓ [M] Pressure regulation range	0 ... 29.4 psi			-0L2H			
	0 ... 88.2 psi			-0L6H			
	0 ... 147 psi			-0L10H			
	Alternative lower pressure regulation range	–	[2]	-...L			
	Alternative upper pressure regulation range	–	[3]	...H			
	Setpoint specification	Voltage (standard 0 ... 10 V)			-V1		
		Current (standard 4 ... 20 mA)			-A4		
Switching output	PNP switching			P			
	NPN switching			N			
[O] Overall accuracy	1%			-S1			
Operator unit	With LCD, pressure unit variable			C1			

[2] ...L Not with pressure regulation range (0L2H, 0L6H, 0L10H).
Must always be less than alternative upper pressure regulation range H

[3] ...H Not with pressure regulation range (0L2H, 0L6H, 0L10H).
Must always be greater than alternative lower pressure regulation range L

Transfer order code

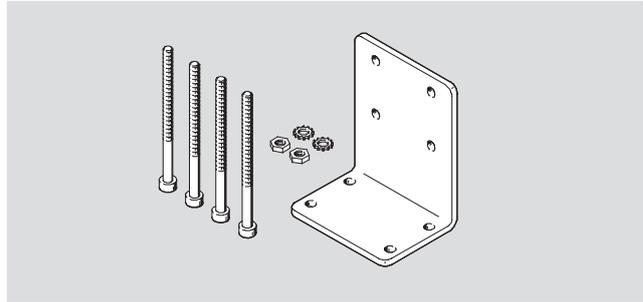
– – –

Proportional pressure regulators VPPM, NPT

Accessories

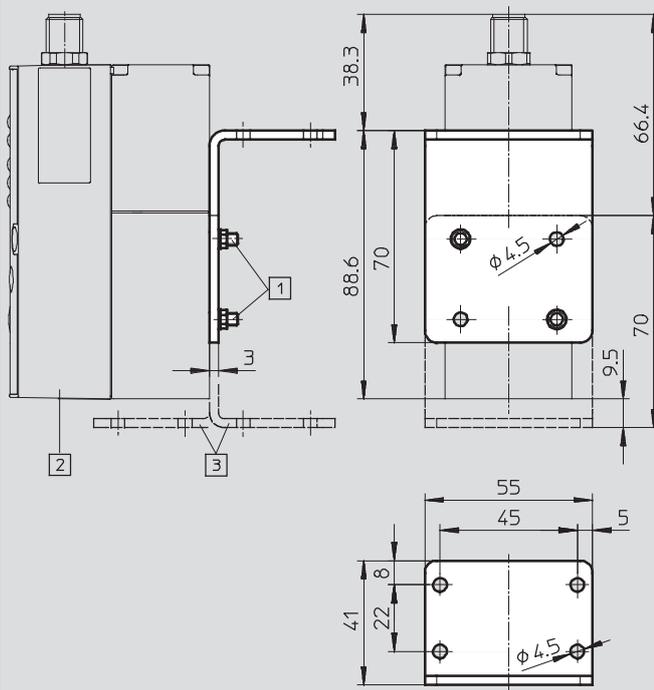
**Bracket
VAME-P1-A**

Material:
Wrought aluminium alloy, steel



Dimensions

Download CAD Data → www.festo.com/us/cad



1 Socket head screw M4

2 Proportional pressure regulator VPPM

3 Bracket can be reversed if required

Ordering data

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

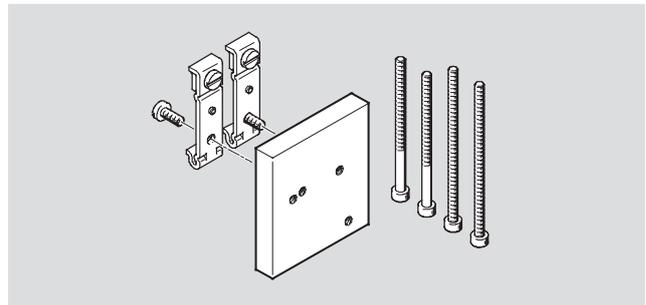
1) Corrosion resistance class 1 according to Festo standard 940 070
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Proportional pressure regulators VPPM, NPT

Accessories

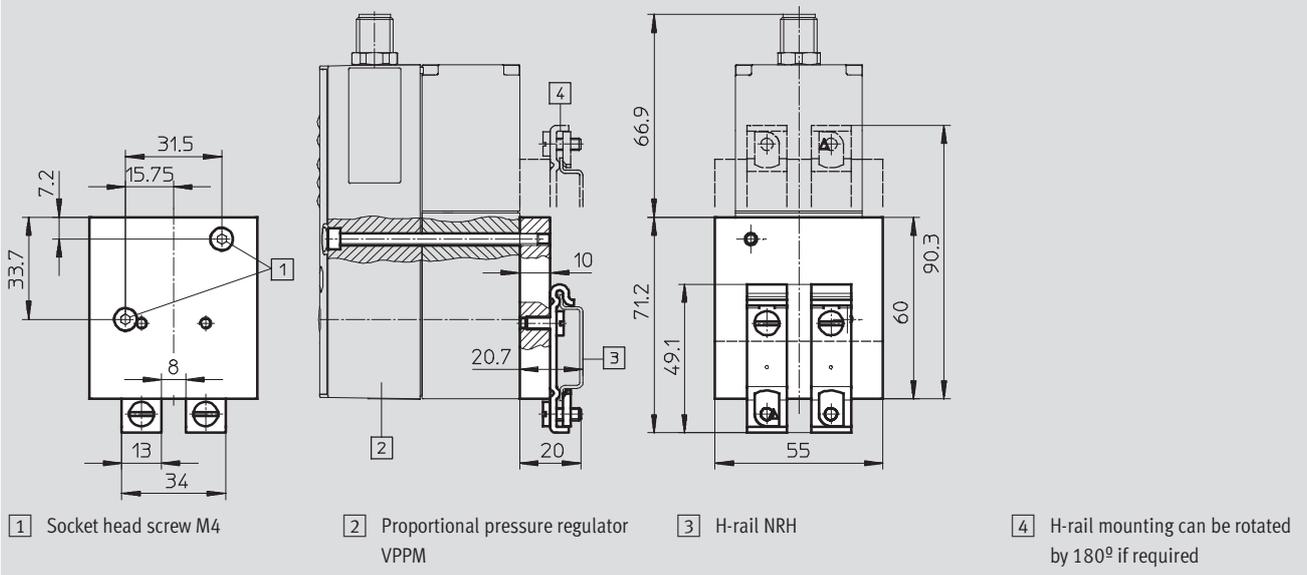
H-rail mounting
VAME-P1-T

Material:
Wrought aluminium alloy, steel



Dimensions

Download CAD Data → www.festo.com/us/cad



Ordering data			
Weight [g]	CRC	Part No.	Type
150	1 ¹⁾	542255	VAME-P1-T

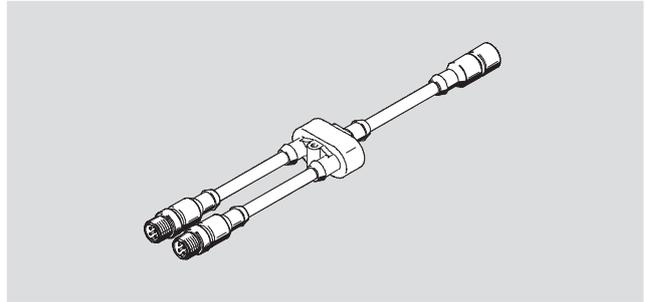
1) Corrosion resistance class 1 according to Festo standard 940 070
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Proportional pressure regulators VPPM, NPT

Accessories

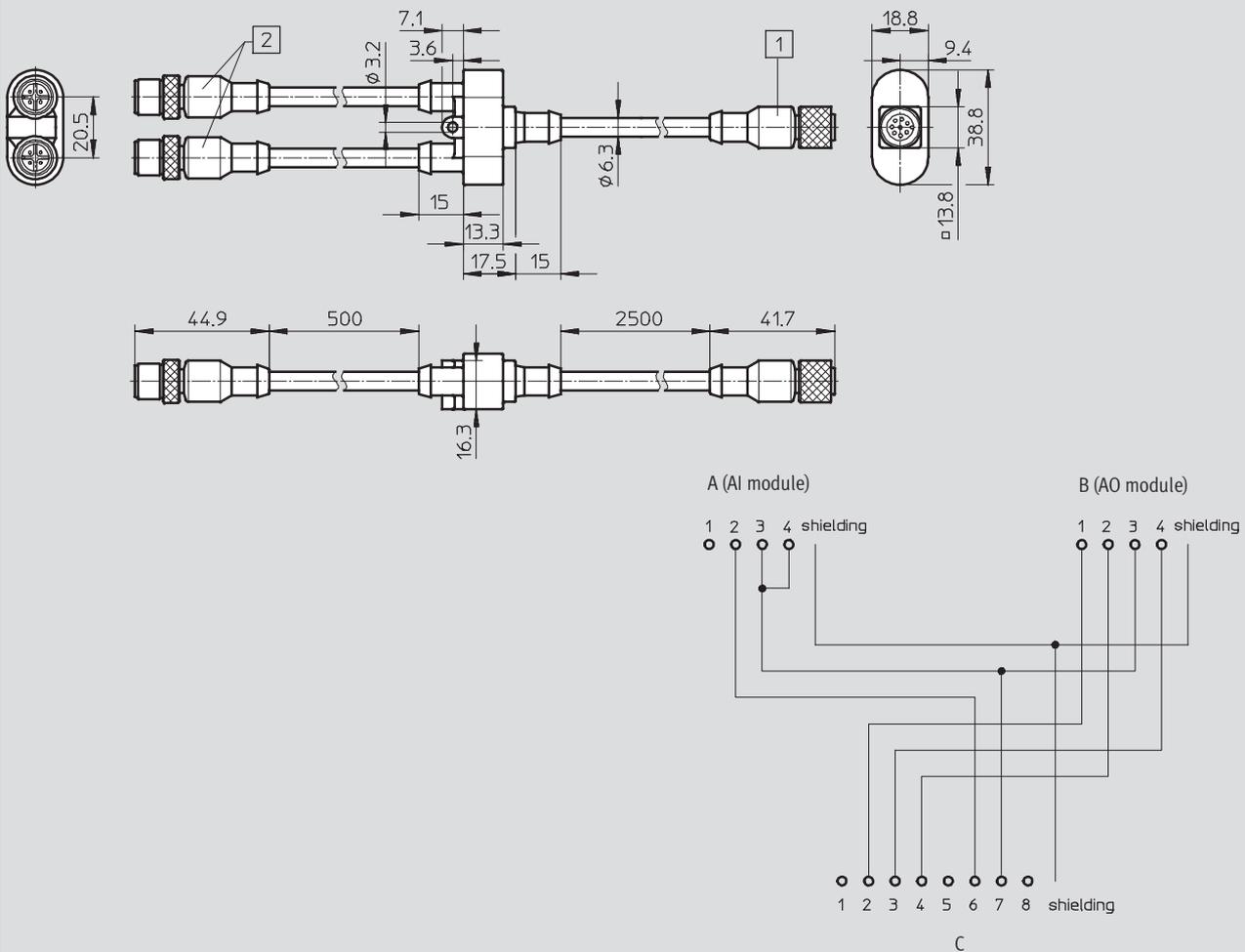
Connecting cable
NEBV-M12G8-KD-3-M12G4

For connecting the proportional pressure regulator VPPM to the analogue input and output modules of the CPX terminal.



Dimensions and pin allocation

Download CAD Data → www.festo.com/us/cad

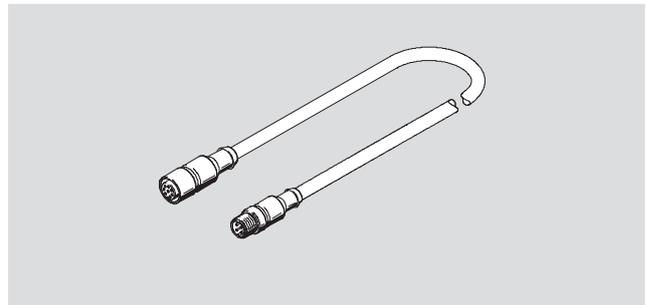


Proportional pressure regulators VPPM, NPT

Accessories

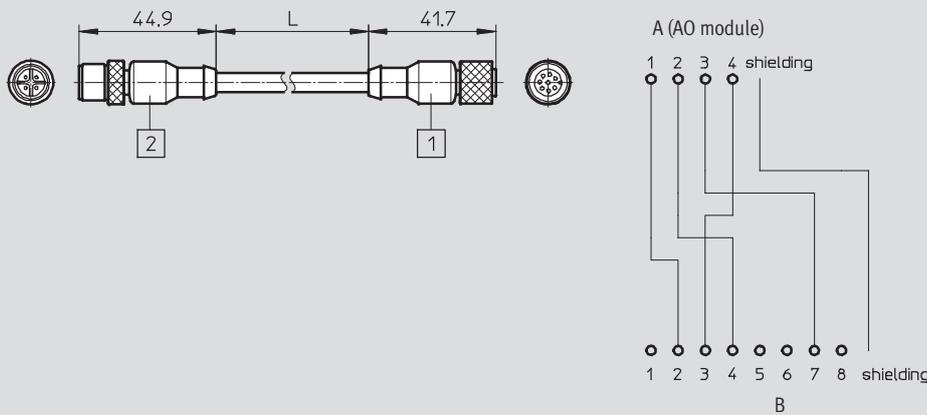
Connecting cable
NEBV-M12G8-K-5-M12G4

For connecting the proportional pressure regulator VPPM to the analogue output modules of the CPX terminal.



Dimensions and pin allocation

Download CAD Data → www.festo.com/us/cad



Type	2	1	L
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: plug socket with 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-M12W8-2-N-LE8
		5 m	542257 NEBU-M12W8-5-N-LE8
		10 m	570007 NEBU-M12W8-10-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			
	Setpoint module for generating 6 + 1 analogue voltage signals	546224	MPZ-1-24DC-SGH-6-SW5

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Custom Control Cabinets
Comprehensive engineering support and on-site services



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Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

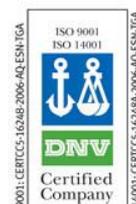
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