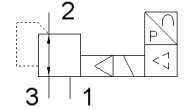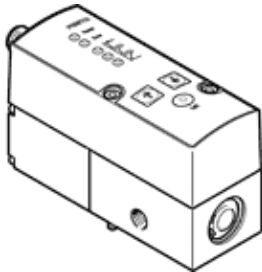# Proportional pressure regulator
VPPM-6L-L-1-N18-0L6H-V1N-S1
Part number: 542206

FESTO

with electric set point specification and two-stage control circuit for stable, precise characteristic of regulation.

This product is only available if ordered from the Festo Corporation, USA.

Data sheet

Feature	Value
Nominal diameter, pressurization	6 mm
Nominal diameter, exhaust	4.5 mm
Type of actuation	electrical
Sealing principle	soft
Assembly position	Any
Design structure	Pilot actuated diaphragm regulator
Short circuit strength	for all electrical connections
Safety instructions	VPPM safety position: If the power supply cable is interrupted, output pressure is maintained unregulated.
Polarity protected	for all electrical connections
Type of reset	mechanical spring
Type of piloting	Piloted
Valve function	3-way proportional-pressure regulator
Type of display	LED
Pressure control range	0.06 ... 6 bar
Inlet pressure 1	0 ... 8 bar
Max. pressure hysteresis	0.03 bar
Standard nominal flow rate	900 l/min
Operating voltage range DC	21.6 ... 26.4 V
Duty cycle	100%
Max. electrical power consumption	7 W
Residual ripple	10 %
Switch output	NPN
Signal range, analog output	0 - 10 V
Signal range, analog input	0 - 10 V
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases
Note on operating and pilot medium	Lubricated operation not possible
CE symbol (see declaration of conformity)	according to EU-EMV guideline
Corrosion resistance classification CRC	2
Medium temperature	10 ... 50 °C
Protection class	IP65
Ambient temperature	0 ... 60 °C
Authorization	C-Tick c UL us - Recognized (OL)
Product weight	400 g
Linearity error, FS	1 %
Temperature coefficient	0.04 %/K
FS repetition accuracy	0.5 %
Electrical connection	Plug M12 8-pin

Feature	Value
Mounting type	Optional with through hole with accessories
Pneumatic connection, port 1	NPT1/8-27
Pneumatic connection, port 2	NPT1/8-27
Pneumatic connection, port 3	NPT1/8-27
Materials note	Conforms to RoHS
Materials information, housing	Wrought Aluminum alloy