## proportional pressure regulator VPPM-12L-L-1-N12-0L10H-V1P-S1C1 Part number: 576681





## **Data sheet**

Nominal diameter, exhaust Yupe of actuation Sealing principle Soft Assembly position Any Assembly position Any Bosign structure Pilot actuated diaphragm regulator Short circuit strength 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 Piloted Marchia Piloted Pressure regulation Pressure regulation Pressure regulation range Piloted Assembly Assemb	Feature	Value
Type of actuation  Sealing principle Assembly position Any Design structure Pilot actuated diaphragm regulator For all electrical connections Safety instructions VPPM safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. Folarity protected For all electrical connections Type of reset Type of reset Type of floting Piloted Valve function Jaway proportional-pressure regulator Type of display Pressure regulation range MPa O.O 1 MPa Pressure regulation range MPa O.O 1 MPa Pressure regulation range O.1 10 bar Intel pressure 1 O 1.1 MPa O	Nominal diameter, pressurisation	12 mm
Sealing principle Assembly position Any Design structure Pilot actuated diaphragm regulator Short circuit strength For all electrical connections Safety instructions Polarity protected For all electrical connections Polarity protected For all electrical connections Type of feset Type of plioting Piloted Piloted Backlit LCD Pressure regulation range MPa Pressure regulation range MPa Pressure regulation range MPa O.01 1 MPa Pressure regulation range Intel pressure 1 Do 1.1 bar Intel pressure 1 Do 1.1 MPa Max. pressure hysteresis O.05 bar Standard nominal flow rate Operating voltage range DC Awax. current consumption Duty cycle Duty cycle 100% Max. electrical power consumption 12 W Residual ripple Signal range, analogue output Pilote Operating voltage and pilot medium Authorisation RCM Mark CE mark (See declaration of conformity) To UK finstructions of EMC UK 22346 CERW CE mark (see declaration of CCC Pilot Carroll Certificate issuing department UL E322346 COrroll on Lass Profocut weight VolMA236481 [82-1.  VOMA236481	Nominal diameter, exhaust	12 mm
Assembly position	Type of actuation	electrical
Assembly position	Sealing principle	soft
Design structure  Pilot actuated diaphragm regulator Short circuit strength 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 Backlit LCD Pressure regulation range MPa 0.01 1 MPa Pressure regulation range MPa 0.1 1 MPa Pressure regulation range 0.1 1 MPa Pressure regulation range 0.1 1 MPa Max. pressure 1 0 11 MPa Max. pressure 1 0 1 MPa Max. pressure hysteresis 0.05 bar Standard nominal flow rate 0.7,000 l/min Operating voltage range DC 21.6 26.4 V Max. current consumption 500 mA Duty cycle 100 %6 Max. electrical power consumption 12 W Residual ripple 10 % Switch output PNP Signal range, analogue output 0 - 10 V Signal range, analogue output 0 - 10 V Signal range, analogue input 0 - 10 V Signal range, analogue input 0 - 10 V Signal range, analogue input 0 - 10 V Signal range, analogue output 0 - 10 V Signal range, analogue		Any
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Pressure regulation range MPa  O.1 10 bar  Inlet pressure 1  Supply pressure 1	Valve function	3-way proportional-pressure regulator
Pressure regulation range    0.1 10 bar	Type of display	Backlit LCD
Inlet pressure 1 Supply pressure 1 MPa O 1.1 MPa Max. pressure hysteresis O.05 bar Standard nominal flow rate 7,000 I/min Operating voltage range DC 21.6 26.4 V Max. current consumption Duty cycle 100 % Max. electrical power consumption 12 W Residual ripple 10 % Signal range, analogue output PNP Signal range, analogue output O-10 V Signal range, analogue input O-10 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorisation RCM Mark CE mark (see declaration of conformity) UKCA marking (see declaration of conformity) To Uk instructions of EMC To UK ROHS instructions Certificate issuing department UL E322346 Corrosion resistance classification CRC PWIS conformity WDMA24364-B1/B2-L Medium temperature Product weight Pool Un will be the seed of	Pressure regulation range MPa	0.01 1 MPa
Supply pressure 1 MPa  Max. pressure hysteresis  0.05 bar  Standard nominal flow rate  7,000 l/min  Operating voltage range DC  21.6 26.4 V  Max. current consumption  500 mA  Duty cycle  100 %  Max. electrical power consumption  12 W  Residual ripple  10 %  Switch output  PNP  Signal range, analogue output  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  Authorisation  RCM Mark  CU lus - Listed (OL)  KC mark  KC-EMV  CE mark (see declaration of conformity)  To UK instructions for EMC  To UK RoHS instructions  Certificate issuing department  Certificate issuing department  UL E322346  Corrosion resistance classification CRC  PVISC conformity  WDMA24364-B1/B2-L  Medium temperature  Product weight  Product weight  2,050 g	Pressure regulation range	0.1 10 bar
Max. pressure hysteresis  Standard nominal flow rate  7,000 l/min  Operating voltage range DC  21.6 26.4 V  Max. current consumption  500 mA  Duty cycle  100 %  Max. electrical power consumption  12 W  Residual ripple  10 %  Switch output  Signal range, analogue output  O - 10 V  Signal range, analogue input  Operating medium  Operating and pilot medium  Lubricated operation not possible  Authorisation  RCM Mark  CUL us - Listed (OL)  KC mark  CE mark (see declaration of conformity)  To UK instructions for EMC  in accordance with EU ROHS directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC  To UK ROHS instructions  Certificate issuing department  Currosion resistance classification CRC  PV DMA24364-B1/B2-L  Medium temperature  Protection class  Ambient temperature  Product weight  2,050 g	Inlet pressure 1	0 11 bar
Max. pressure hysteresis  Standard nominal flow rate  7,000 l/min  Operating voltage range DC  21.6 26.4 V  Max. current consumption  500 mA  Duty cycle  100 %  Max. electrical power consumption  12 W  Residual ripple  10 %  Switch output  Signal range, analogue output  O - 10 V  Signal range, analogue input  Operating medium  Operating and pilot medium  Lubricated operation not possible  Authorisation  RCM Mark  CUL us - Listed (OL)  KC mark  CE mark (see declaration of conformity)  To UK instructions for EMC  in accordance with EU ROHS directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC  To UK ROHS instructions  Certificate issuing department  Currosion resistance classification CRC  PV DMA24364-B1/B2-L  Medium temperature  Protection class  Ambient temperature  Product weight  2,050 g	Supply pressure 1 MPa	0 1.1 MPa
Operating voltage range DC     21.6 26.4 V       Max. current consumption     500 mA       Duty cycle     100 %       Max. electrical power consumption     12 W       Residual ripple     10 %       Switch output     PNP       Signal range, analogue output     0 - 10 V       Signal range, analogue 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       Authorisation     RCM Mark       CE mark     KC-EMV       CE mark (see declaration of conformity)     to EU directive for EMC       in accordance with EU RoHS directive       UKCA marking (see declaration of conformity)     To UK instructions for EMC       TO UK ROHS instructions       Certificate issuing department     UL E322346       Corrosion resistance classification CRC     2 - Moderate corrosion stress       PWIS conformity     VDMA24364-B1/B2-L       Medium temperature     10 50 °C       Product weight     2,050 g	Max. pressure hysteresis	0.05 bar
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Max. current consumption 500 mA Duty cycle 100 %  Max. electrical power consumption 12 W Residual ripple 10 % Switch output PNP Signal range, analogue output 0-10 V Signal range, analogue 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 Authorisation RCM Mark cull us - Listed (OL) KC mark (see declaration of conformity) to EU directive for EMC in accordance with EU ROHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK rostructions for EMC To UK ROHS instructions Certificate issuing department UL E322346 Corrosion resistance classification CRC 2- Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature 10 50 °C Protection class Ambient temperature Product weight 2,050 g	Operating voltage range DC	21.6 26.4 V
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Inert gases		
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Product weight 2,050 g		
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Linearity 1 9/FS	Linearity	1 %FS



Feature	Value
Hysteresis	0.5 %FS
Reproducibility	0.5 %FS
Overall accuracy	1,25 %FS
Temperature coefficient	0.04 %/K
FS repetition accuracy	0.5 %
Electrical connection	8-pin
	M12
	Plug
Mounting type	with through hole
	with accessories
	Optional
Pneumatic connection, port 1	1/2 NPT
Pneumatic connection, port 2	1/2 NPT
Pneumatic connection, port 3	1/2 NPT
Materials note	Conforms to RoHS
Material housing	Wrought Aluminium alloy
	Anodised