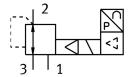
Proportional pressure control valve VPPM-6L-L-1-G18-0L6H-V1N-C1

FESTO

Part number: 558346





Data sheet

General operating condition

Exhaust nominal width Actuation type Electrical Soft Mounting position Any Structural design Pilot-controlled diaphragm regulator Short-circuit protection For all electrical connections Safety instructions VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol O0995303 Reverse polarity protection for all electrical connections Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-It LCD Pressure regulation range MPa Pressure regulation range MPa O.066 MPa 0.6 MPa Pressure regulation range Inlet pressure 1 O bar 8 bar Inlet pressure 1 MPa OMPa 0.8 MPa Max. pressure hysteresis Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption Duty cycle 100% Max. electrical power consumption Tyw Residual ripple Switching output NPN Analog output signal range O-10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible Certification Certi	Feature	Value
Actuation type Electrical Sealing principle Soft Mounting position Any Short-circuit protection For all electrical connections Safety instructions VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol Cooperating protection For all electrical connections Symbol Cooperating protection For all electrical connections Reverse polarity protection For all electrical connections Reverse polarity protection For all electrical connections Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa C.006 MPa 0.6 MPa Pressure regulation range C.06 bar 6 bar Inlet pressure 1 O.5 m. 8 bar Inlet pressure 1 O.5 m. 8 bar Inlet pressure hysteresis C.03 bar Standard nominal flow rate 900 l/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range O -10 V Analog input signal range O -10 V Analog input signal range O -10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operating curls Certification RCM compliance mark CUL us - Listed (OL)	Nominal width pressurization	6 mm
Sealing principle Soft Mounting position Any Structural design Pilot-controlled diaphragm regulator Short-circuit protection Safety instructions VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol Reverse polarity protection Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range 0.06 bar 6 bar Inlet pressure 1 Inlet pressure 1 Nax. pressure hysteresis 0.03 bar Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range 0 -10 V Analog input signal range Certification Reven consumer is soft and in the pressure large in any possible Certification Reven consumer on perating and pilot media Operation with oil lubrication not possible Certification Reven consumer on surposible Certification Any Pilot-controlled diaphragm regulator Neph Saftery position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Soft electrical connections Mechanical proposition: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Soft electrical connections Any Pilot-controlled Mechanical proposition: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Soft electrical connections Mechanical proposition: if the supply cable breaks, the outlet pressure is smintained in uncontrolled form. Soft electrical connections Mechanical spring Mechanical spring	Exhaust nominal width	4.5 mm
Mounting position Structural design Pilot-controlled diaphragm regulator For all electrical connections Safety instructions VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol O0995303 Reverse polarity protection for all electrical connections Reset method Mechanical spring Pilot-controlled Valve function Jaway proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa O.06 Mar 0.6 MPa Pressure regulation range MPa O.06 bar 6 bar Inlet pressure 1 Obar 8 bar Inlet pressure 1 Inlet pressure 1 MPa O.07 MPa 0.8 MPa Max. pressure hysteresis O.03 bar Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption OD Max. electrical power consumption TW Residual ripple 10 % Switching output NPN Analog on put signal range O-10 V Analog input signal range O-10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible Certification CEMBERGE ACM STANDARD ACM STANDARD ACM CUL us - Listed (OL)	Actuation type	Electrical
Structural design Pilot-controlled diaphragm regulator Short-circuit protection For all electrical connections Safety instructions VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol 0995303 Reverse polarity protection for all electrical connections Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-lift LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range MPa 0.006 MPa 0.8 MPa Inlet pressure 1 NPa 0 MPa 0.8 MPa Max. pressure 1 NPa 0 MPa 0.8 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 I/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPA Analog output signal range 0 -10 V Analog input signal range 0 -10 V Operating medium Comperating and pilot media Operation with oil lubrication not possible Certification CRM controlled diaphragm regulator regulator is maintained in control controlled controlled in controlled controlled month of the controlled month of the controlled form. Prospical all electrical connections WPPM Analog on the stage of the controlled form. Pilot-controlled on uncontrolled form. Sandard nominal flow read 0.006 MPa 0.6 MPa Departing medium 0.000 MPa Depa	Sealing principle	Soft
Short-circuit protection Safety instructions WPPM safety position: if the supply cable breaks, the outlet pressure is maintalined in uncontrolled form. Symbol 00995303 Reverse polarity protection Reset method Mechanical spring Type of control Walve function 10 Jaway proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range 10 Jam 0.8 MPa Inlet pressure 1 10 bar 8 bar Inlet pressure 1 Inlet pressure 1 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 -10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible RCM compliance mark cUL us - Listed (OL)	Mounting position	Any
Safety instructions VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Oo995303 Reverse polarity protection Reset method Mechanical spring Type of control Pilot-controlled Valve function Display type Back-lit LCD Pressure regulation range MPa O.006 MPa 0.6 MPa Pressure regulation range O.05 bar 6 bar Inlet pressure 1 Inlet pressure 1 O bar 8 bar OMPa 0.8 MPa Max. pressure hysteresis O.03 bar Standard nominal flow rate OCOPITATION DOWN Max. current consumption Duty cycle 100% Max. current consumption TW Residual ripple 10 % Switching output NPN Analog output signal range O-10 V Operating medium Certification RCM compilance mark CUL us - Listed (OL)	Structural design	Pilot-controlled diaphragm regulator
Symbol 0995303 Reverse polarity protection for all electrical connections Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range MPa 0.06 MPa 0.6 MPa Pressure regulation range MPa 0.05 bar 6 bar Inlet pressure 1 0 bar 8 bar Inlet pressure 1 MPa 0.03 bar Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 l/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range 0-10 V Analog input signal range 0-10 V Operating medium Completating and pilot media Operation with oil lubrication not possible Certification RCM compliance mark cUL us - Listed (OL)	Short-circuit protection	For all electrical connections
Reverse polarity protection Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range MPa 0.06 bar 6 bar Inlet pressure 1 Inlet pressure 1 Inlet pressure 1 NPa 0.03 bar Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Safety instructions	
Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range Pressure regulation range 0.006 MPa 0.6 MPa Pressure regulation range 0.006 MPa 0.6 MPa Pressure regulation range 0.006 MPa 0.8 MPa Inlet pressure 1 MPa 0 MPa 0.8 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 I/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Innert gas Information on operating and pilot media Operation with oil lubrication not possible Certification RCM compliance mark c UL us - Listed (OL)	Symbol	00995303
Pilot-controlled Valve function 3-way proportional pressure control valve Display type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range MPa 0.06 bar 6 bar Inlet pressure 1 0 bar 8 bar Inlet pressure 1 MPa 0.08 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 l/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range 0-10 V Analog input signal range 0-10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Innert gas Information on operating and pilot media Operation with oil lubrication not possible Certification RCM compliance mark c UL us - Listed (OL)	Reverse polarity protection	for all electrical connections
Valve function 3-way proportional pressure control valve Bisplay type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range 0.06 bar 6 bar Inlet pressure 1 0 bar 8 bar Inlet pressure 1 MPa 0 MPa 0.8 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 l/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Certification RCM compliance mark cUL us - Listed (OL)	Reset method	Mechanical spring
Display type Back-lit LCD Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range 0.06 bar 6 bar Inlet pressure 1 Obar 8 bar Inlet pressure 1 MPa 0 MPa 0.8 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 l/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible Certification RCM compliance mark c UL us - Listed (OL)	Type of control	Pilot-controlled
Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range 0.06 bar 6 bar Obar 8 bar Inlet pressure 1 Obar 8 bar Inlet pressure 1 MPa 0 MPa 0.8 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 I/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible Certification RCM compliance mark c UL us - Listed (OL)	Valve function	3-way proportional pressure control valve
Pressure regulation range O,06 bar 6 bar Inlet pressure 1 O bar 8 bar Inlet pressure 1 MPa Max. pressure hysteresis O.03 bar Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range O - 10 V Analog input signal range O - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Display type	Back-lit LCD
Inlet pressure 1	Pressure regulation range MPa	0.006 MPa 0.6 MPa
Inlet pressure 1 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 900 I/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Pressure regulation range	0.06 bar 6 bar
Max. pressure hysteresis Standard nominal flow rate 900 l/min DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Inlet pressure 1	0 bar 8 bar
Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Inlet pressure 1 MPa	0 MPa 0.8 MPa
DC operating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Max. pressure hysteresis	0.03 bar
Max. current consumption Duty cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Standard nominal flow rate	900 l/min
Duty cycle Max. electrical power consumption 7 W Residual ripple 10 % Switching output NPN Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	DC operating voltage range	21.6 V 26.4 V
Max. electrical power consumption Residual ripple 10 % Switching output NPN Analog output signal range 0 - 10 V Analog input signal range Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Max. current consumption	300 mA
Residual ripple 10 % Switching output NPN Analog output signal range 0 - 10 V Analog input signal range 0 - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible Certification RCM compliance mark c UL us - Listed (OL)	Duty cycle	100%
Switching output Analog output signal range O - 10 V Analog input signal range O - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification RCM compliance mark c UL us - Listed (OL)	Max. electrical power consumption	7 W
Analog output signal range O - 10 V Analog input signal range O - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible RCM compliance mark c UL us - Listed (OL)	Residual ripple	10 %
Analog input signal range O - 10 V Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible RCM compliance mark c UL us - Listed (OL)	Switching output	NPN
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication not possible RCM compliance mark c UL us - Listed (OL)	Analog output signal range	0 - 10 V
Inert gas Information on operating and pilot media Operation with oil lubrication not possible RCM compliance mark c UL us - Listed (OL)	Analog input signal range	0 - 10 V
Certification RCM compliance mark c UL us - Listed (OL)	Operating medium	
c UL us - Listed (OL)	Information on operating and pilot media	Operation with oil lubrication not possible
KC characters KC EMC	Certification	
	KC characters	KC EMC

Feature	Value
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing authority	UL E322346
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	10 °C 50 °C
Degree of protection	IP65
Ambient temperature	0 ℃ 50 ℃
Product weight	400 g
Linearity	1 %FS
Hysteresis	0.5 %FS
Reproducibility	0.5 %FS
Overall accuracy	1.25 %FS
Temperature coefficient	0.04 %/K
Repetition accuracy FS	0.5 %
Electrical connection	8-pin M12 Plug
Type of mounting	Optionally: With through-hole With accessories
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy Anodized