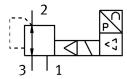
Proportional pressure control valve VPPM-8F-L-1-F-0L6H-V1P-S1

FESTO

Part number: 571286





Data sheet

General operating condition

Exhaust nominal width 7 mm Actuation type Electrical Socialing principle 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 00995303 Reverse polarity protection for all electrical connections Reverse polarity protection Mechanical spring Type of control Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type ED Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range MPa 0.006 MPa 0.6 MPa Inlet pressure 1 0 bar 8 bar Inlet pressure 1 MPa 0 MPa 0.8 MPa Max. pressure hysteresis Standard nominal flow rate 1750 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 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 RM CM compliance mark cUL us - Listed (OL)	Feature	Value
Actuation type Sealing principle Soft Mounting position Short-circuit protection Short-circuit protection Safety instructions Symbol Reverse polarity protection Reset method Mechanical spring Pilot-controlled Mechanical spring Pilot-controlled Mechanical spring Pilot-controlled Mechanical spring Type of control Aviave function Display type LED Pressure regulation range MPa Pressure regulation range 0.06 MPa 0.6 MPa Pressure regulation range 0.06 bar 6 bar Inlet pressure 1 0 bar 8 bar Inlet pressure 1 NPa Max. pressure hysteresis Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V Max. current consumption Duty cycle 10 % Switching output PNP Residual ripple 10 % Switching output signal range 0 -1 0 V Analog input signal range (Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operatin method PC compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operatin method in uncontrolled diaphragm regulator Soft Pilot-controlled diaphragm regulator Soft Any Structural design Pilot-controlled diaphragm regulator Pilot-controlled diaphragm regulator Mechanical connections Mechanical connections Mechanical connections Mechanical pronections Mechanical pronections 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 muthol il lubrication not possible Certification	Nominal width pressurization	8 mm
Sealing principle 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 Wave function Jaway proportional pressure control valve Display type LED Pressure regulation range MPa O.006 MPa 0.6 MPa Pressure regulation range O.06 bar 6 bar Inlet pressure 1 Inlet pressure 1 MPa O.09 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 Duty cycle 100% Max. electrical power consumption TW Residual ripple 10 % Switching output Analog output signal range O-10 V Operating medium Cempressed 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)	Exhaust nominal width	7 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 00995303 Reverse polarity protection for all electrical connections Reverse polarity protection Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type LED Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range 0.06 bar 6 bar linlet pressure 1 Inlet pressure 1 Inlet pressure 1 Obar 8 bar Inlet pressure 1 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 1750 l/min DC operating voltage range 21.6 V 26.4 V Max. electrical power consumption 7 W Residual ripple 10 % Switching output PNP Analog on put 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)	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 LED Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range MPa 0.006 MPa 0.8 MPa Inlet pressure 1 0 bar 8 bar Inlet pressure 1 0 bar 8 bar Inlet pressure 1 NPa 0 MPa 0.8 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 1750 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 PNP 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 Certification CRM compressed are as CUL us - Listed (OL)	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 Joeparting wrope of control Walve function Pressure regulation range MPa Pressure regulation range 0.006 MPa 0.6 MPa Inlet pressure 1 0 bar 8 bar Inlet pressure 1 0 bar 8 bar Inlet pressure 1 MPa 0.003 bar Standard nominal flow rate 10 Coperating voltage range 21.6 V 26.4 V Max. current consumption 300 mA Duty cycle 100% Max. electrical connections For all electrical connections Mechanical spring For all electrical connections For all electrical connections Mechanical spring For all electrical connections For all electric	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 Valve function Display type LED 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 DC operating voltage range 21.6 V 26.4 V Max. current consumption Duty cycle 100% Max. electrical power consumption 7 W Residual ripple DO operating output 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 Certification RCM compiliance mark c UL 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 LED 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 NPa 0.03 bar Standard nominal flow rate 1750 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 PNP Analog output signal range 0-10 V Operating medium Competating and pilot media 0-peration with oil lubrication not possible Certification RECM Compiliance mark cUL us - Listed (OL)	Short-circuit protection	For all electrical connections
Reverse polarity protection Reset method Reset method Mechanical spring Type of control Pilot-controlled Valve function 3-way proportional pressure control valve Display type LED 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 Inlet pressure 1 MPa 0.03 bar Standard nominal flow rate 1750 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 PNP 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 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 LED Pressure regulation range MPa 0.006 MPa 0.6 MPa Pressure regulation range Pressure regulation range 0.06 bar 6 bar Inlet pressure 1 0 bar 8 bar Inlet pressure 1 MPa 0.07 bar 0.8 MPa Max. pressure hysteresis 0.03 bar Standard nominal flow rate 1750 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 PNP 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 LED 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 1750 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 PNP 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 Display type LED 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 1750 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 cull us - Listed (OL)	Reset method	Mechanical spring
Display type LED Pressure regulation range MPa 0.006 MPa 0.6 MPa 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 1750 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)	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 O MPa 0.8 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 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 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	LED
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 1750 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)	Pressure regulation range	0.06 bar 6 bar
Max. pressure hysteresis Standard nominal flow rate 1750 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 PNP 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 PNP 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	1750 l/min
Duty cycle Max. electrical power consumption 7 W Residual ripple 10 % Switching output PNP 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 PNP 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 PNP 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	PNP
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 ℃ 50 ℃
Degree of protection	IP65
Ambient temperature	0 °C 60 °C
Product weight	560 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	Sub-base
Pneumatic connection 2	Sub-base
Pneumatic connection 3	Sub-base
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy Anodized