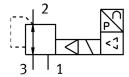
Proportional pressure control valve VPPM-8L-L-1-G14-0L10H-V1P-S1

FESTO

Part number: 571292





Data sheet

General operating condition

| Exhaust nominal width 7 mm Actuation type Electrical Sealing 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 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 EB Pressure regulation range MPa Pressure regulation range MPa Pressure regulation range MPa On 1 MPa 1 MPa Pressure regulation range Inlet pressure 1 Obar 10 bar Inlet pressure 1 MPa OMPa 1.1 MPa Max. pressure hysteresis 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 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 | 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 CO0995303 Reverse polarity protection For all electrical connections Symbol CO0995303 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 O.01 MPa 1 MPa Pressure regulation range O.1 bar 10 bar Inlet pressure 1 O bar 11 bar Inlet pressure 1 O bar 11 MPa Max. pressure hysteresis O.05 bar Standard nominal flow rate 2750 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 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 RCM compliance mark CUL us - Listed (OL) | 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.01 MPa 1 MPa Pressure regulation range O.1 bar 10 bar Inlet pressure 1 Inlet pressure 1 MPa O.MPa 1.1 MPa Max. pressure hysteresis O.05 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 input signal range O-10 V Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Certification Refore Controlled diaphragm regulator PIDot-controlled form. Soft the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Soft the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Soft all electrical connections Mechanical spring PIDOT controlled Mechanical spring O.01 MPa 1 MPa O.01 MPa 1 MPa O.02 MPa 1 MPa O.03 MPa 1 MPa O.04 MPa 1 MPa O.05 MPa 1 MPa O.06 MPa 1 MPa O.07 MPa 1 MPa O.08 MPa 1 MPa O.09 MPa 1 MPa O.01 MPa 1 MPa O.01 MPa 1 MPa O.02 MPa 1 MPa O.03 MPa 1 MPa O.04 MPa 1 MPa O.05 MPa 1 MPa O.06 MPa 1 MPa O.07 MPa 1 MPa O.08 MPa 1 MPa O.09 MPa 1 MPa O.09 MPa 1 MPa O.01 MPa 1 MPa O.01 MPa 1 MPa O.02 MPa 1 MPa O.03 MPa 1 MPa O.04 MPa 1 MPa O.05 MPa 1 MPa O.05 MPa 1 MPa O.06 MPa 1 MPa O.07 MPa 1 MPa O.08 MPa 1 MPa O.09 MPa 1 MPa O.09 MPa 1 MPa O. | 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 LED Pressure regulation range MPa 0.01 MPa 1 MPa Pressure regulation range MPa 0.01 MPa 1 D bar Inlet pressure 1 Inlet pressure 1 Inlet pressure 1 Obar 1 D bar Inlet pressure 1 MPa Max. pressure hysteresis 0.05 bar Standard nominal flow rate 2750 I/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 - 1 0 V Analog input signal range 0 - 1 0 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 ReM 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 0.01 MPa 1 MPa Pressure regulation range in O bar 10 bar Inlet pressure 1 MPa 0 MPa 11 bar Inlet pressure 1 O bar 11 bar Inlet pressure 1 MPa 0 MPa 1.1 MPa Max. pressure hysteresis 0.05 bar Standard nominal flow rate 2750 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 Operation with oil lubrication not possible Certification CRM compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Certification CRM compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas | Sealing principle | Soft |
| Short-circuit protection Safety instructions WPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol 00995303 Reverse polarity protection Reset method Mechanical spring Type of control Walve function 10 John Man 1 MPa Pressure regulation range MPa Pressure regulation range 0.01 MPa 1 MPa Pressure regulation range 10 Johr 11 MPa Inlet pressure 1 10 Johr 11 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 TW Residual ripple 10 % Switching output Analog output signal range 0 -10 V Compressed air as per ISO 8573-1:2010 [7:4:4] Inlet gas Information on operating and pilot media Operation with oil lubrication not possible Certification RefM compliance mark c UL us - Listed (OL) | Mounting position | Any |
| Safety instructions VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. O0995303 Reverse polarity protection Reset method Mechanical spring Type of control Valve function Display type LED Pressure regulation range MPa O.01 MPa 1 MPa Pressure regulation range O.1 bar 10 bar Inlet pressure 1 Inlet pressure 1 O bar 11 MPa Max. pressure 1 NPa Max. pressure hysteresis O.05 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 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 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 0.01 MPa 1 MPa Pressure regulation range MPa 0.1 bar 10 bar Inlet pressure 1 0 bar 11 bar Inlet pressure 1 NPa 0 MPa 1.1 MPa Max. pressure hysteresis 0.05 bar Standard nominal flow rate 2750 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 Completing and pilot media Operation with oil lubrication not possible Certification RECMCORD A SWA CUL us - Listed (OL) | Short-circuit protection | For all electrical connections |
| Reverse polarity protection Reset method Res | 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 0.01 MPa 1 MPa Pressure regulation range Pressure regulation range 0.1 bar 10 bar Inlet pressure 1 MPa 0 MPa 1.1 MPa Inlet pressure 1 MPa 0 MPa 1.1 MPa Max. pressure hysteresis 0.05 bar Standard nominal flow rate 2750 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 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 |
| Type of control Valve function 3-way proportional pressure control valve Display type LED Pressure regulation range MPa 0.01 MPa 1 MPa Pressure regulation range 0.1 bar 10 bar Inlet pressure 1 Inlet pressure 1 MPa Max. pressure hysteresis 0.05 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 T W Residual ripple 10 % Switching output Analog output signal range 0 - 10 V Operating medium Certification RCM compliance mark cult use Assistance and a series and a series and a series and cultured in the pressible RCM compliance mark culture - Listed (OL) | Reverse polarity protection | for all electrical connections |
| Valve function 3-way proportional pressure control valve Display type LED Pressure regulation range MPa 0.01 MPa 1 MPa Pressure regulation range 0.1 bar 10 bar Inlet pressure 1 0 bar 11 bar Inlet pressure 1 MPa Max. pressure hysteresis 0.05 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 Certification RCM compliance mark cull us - Listed (OL) | Reset method | Mechanical spring |
| Display type LED Pressure regulation range MPa 0.01 MPa 1 MPa Pressure regulation range 0.1 bar 10 bar Inlet pressure 1 Obar 11 bar Inlet pressure 1 MPa Max. pressure hysteresis 0.05 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 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) | Type of control | Pilot-controlled |
| Pressure regulation range MPa O.01 MPa 1 MPa Pressure regulation range O.1 bar 10 bar Inlet pressure 1 Obar 11 bar Inlet pressure 1 MPa O MPa 1.1 MPa Max. pressure hysteresis O.05 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 PNP 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 RCM compliance mark c UL us - Listed (OL) | Valve function | 3-way proportional pressure control valve |
| Pressure regulation range O.1 bar 10 bar Inlet pressure 1 O bar 11 bar Inlet pressure 1 MPa Max. pressure hysteresis O.05 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 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 Inlet pressure 1 MPa Inlet pressure 1 MPa O MPa 1.1 MPa O.05 bar Max. pressure hysteresis O.05 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 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) | Pressure regulation range MPa | 0.01 MPa 1 MPa |
| Inlet pressure 1 MPa Max. pressure hysteresis O.05 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 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 | 0.1 bar 10 bar |
| Max. pressure hysteresis Standard nominal flow rate 2750 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 11 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 1.1 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 | 0.05 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 | 2750 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 Operation with oil lubrication not possible 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 °C 50 °C |
| 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 | G1/4 |
| Pneumatic connection 2 | G1/4 |
| Pneumatic connection 3 | G1/4 |
| Note on materials | RoHS-compliant |
| Housing material | Wrought aluminum alloy Anodized |