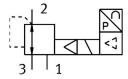
## Proportional pressure control valve VPPM-8-NPT

**FESTO** 

Part number: 546954





## General operating condition

## **Data sheet**

Overall data sheet – Individual values depend upon your configuration.

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   Reset method   Mechanical spring   Type of control   Pilot controlled   Valve function   3-way proportional pressure control valve   Display type   Back-lit LCD   LED   Pressure regulation range   0.02 bar 10 bar   Inlet pressure 1   0 bar 11 bar   Inlet pressure 1   MPa   0 MPa 1.1 MPa   Standard nominal flow rate   450 l/min 2750 l/min   Do 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 %   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)   KC characters   KC EMC   CE marking (see declaration of conformity)   As per EU ENG directive   UKCA marking (see declaration of conformity)   UL E322346   UL	Feature	Value
Sealing principle  Mounting position  Any  Pilot-controlled diaphragm regulator  Structural design  Pilot-controlled diaphragm regulator  For all electrical connections  Safety instructions  Safety instructions  VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.  Oopp95303  Reverse polarity protection  Reset method  Mechanical spring  Type of control  Pilot-controlled  Saway proportional pressure control valve  Display type  Back-lit LCD  LED  Pressure regulation range  Ouz bar 10 bar  Inlet pressure 1  Obar 11 bar  Inlet pressure 1  On Pan 1.1 MPa  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  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. U. u. s. Listed (OL)  KC Characters  KC EMC  CE marking (see declaration of conformity)  To UK instructions or EMC  To UK instructions or	Nominal width pressurization	8 mm
Mounting position  Any 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.  VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.  VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.  VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.  Reser method  Mechanical spring  Type of control  Pilot-controlled  Wave function  3-way proportional pressure control valve  Back-lit LCD  LED  Pressure regulation range  0.02 bar 10 bar  Inlet pressure 1  0 bar 11 bar  Inlet pressure 1 MPa  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 %  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 Ut us - Listed (Ot)  KC Characters  KC EMC  CE marking (see declaration of conformity)  As per EU ENC directive  As per EU ENC directive  To UK instructions of EMC  To UK instructions of EMC  To UK instructions of EMC  To UK RoHS instructions  Certificate issuing authority  UL E322346	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 00995303 Reverse polarity protection for all electrical connections Reset method Mechanical spring Type of control Valve function 3-way proportional pressure control valve Display type Back-lit LCD LED Display type 0.02 bar 10 bar Inlet pressure 1 0.02 bar 10 bar Inlet pressure 1 1 0 bar 11 bar Inlet pressure 1 MPA Standard nominal flow rate 450 l/min 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 % Operating medium lerit gas Information on operating and pilot media 0peration with oil lubrication not possible Certification RCM compliance mark CUL us - Listed (OL) KC Characters KC EMC  Elemarking (see declaration of conformity) As per EU EMC directive To UK RoHS instructions Certificate issuing authority UL E 322346	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  O0995303  Reverse polarity protection  Reset method  Mechanical spring  Type of control  Walve function  Display type  Back-lit LCD  LED  Pressure regulation range  O.02 bar 10 bar  Inlet pressure 1  O bar 11 bar  Inlet pressure 1 MPa  O MPa 11 MPa  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  Operating medium  Information on operating and pilot media  Operation with oil lubrication not possible  Certification  KC Characters  KC EMC  CE marking (see declaration of conformity)  To UK instructions for EMC  To UK RoHS instructions  VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled in uncontrolled form.  Operating rediction in the outlet pressure is maintained in uncontrolled form.  Safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.  Operating the supply cable breaks, the outlet pressure is maintained in uncontrolled form.  Operation with oil uncontrolled form.  Operation with oil lubrication not possible  CE marking (see declaration of conformity)  As per EU EMC directive  As per EU ROHS directive  To UK instructions for EMC  To UK RoHS instructions  Certificate issuing authority  UL E 322346	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  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  LED  Pressure regulation range  0.02 bar 10 bar  Inlet pressure 1  0 bar 11 bar  Inlet pressure 1 MPa  O MPa 1.1 MPa  Standard nominal flow rate  450 l/min 2750 l/min  Do coperating 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 %  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  CC (C characters  KC EMC  CE marking (see declaration of conformity)  As per EU ROK directive  As per EU ROK di	Structural design	Pilot-controlled diaphragm regulator
maintained in uncontrolled form.  Symbol 00995303  Reverse polarity protection for all electrical connections Resest method Mechanical spring Type of control Pilot-controlled  Valve function 3-way proportional pressure control valve  Display type Back-lit LCD LED  Pressure regulation range 0.0.2 bar 10 bar  Inlet pressure 1  Inlet pressure 1  Inlet pressure 1 MPa 0 MPa 1.1 MPa  Standard nominal flow rate 450 I/min 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 %  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  KC characters KC EMC  CE marking (see declaration of conformity) As per EU EMC directive As per EU ROMS directive	Short-circuit protection	For all electrical connections
Reverse polarity protection Reset method Mechanical spring Type of control Pilot-controlled  Away proportional pressure control valve Display type Back-lit LCD LED Pressure regulation range O.02 bar 10 bar Inlet pressure 1 O bar 11 bar Inlet pressure 1 MPa Standard nominal flow rate DC operating voltage range 21.6 v 26.4 v Max. current consumption Duty cycle Max. electrical power consumption Type Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inlett gas Information on operating and pilot media Operation with oil lubrication not possible Certification CE marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Certificate issuing authority UL E322346  Pilot-controls Pilot-controlled Away proportional pressure control valve Dake-interval pressure control valve Do paratin United Sample Control valve Do all electrical pomer control valve Do paratin United Sample Control valve Do paratin with oil lubrication not possible Certification CE marking (see declaration of conformity) As per EU EMC directive As per EU EMC directive As per EU EMC directive To UK RoHS instructions Certificate issuing authority UL E322346	Safety instructions	
Reset method  Mechanical spring Type of control  Pilot-controlled  3-way proportional pressure control valve  Display type  Back-lit LCD LED  Pressure regulation range  0.02 bar 10 bar  Inlet pressure 1  Obar 11 bar  Inlet pressure 1 MPa  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  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)  KC Characters  KC EMC  CE marking (see declaration of conformity)  To UK instructions for EMC To UK RoHS instructions  Certificate issuing authority  UL E322346	Symbol	00995303
Type of control  Pilot-controlled  3-way proportional pressure control valve  Display type  Back-lit LCD LED  Pressure regulation range  0.02 bar 10 bar  Inlet pressure 1  Inlet pressure 1  Inlet pressure 1 MPa  Standard noninal flow rate  O operating voltage range  21.6 V 26.4 V  Max. current consumption  Duty cycle  100%  Max. electrical power consumption  7 W  Residual ripple  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)  KC characters  KC EMC  CE marking (see declaration of conformity)  To UK RoHS instructions  Certificate issuing authority  UL E322346	Reverse polarity protection	for all electrical connections
Valve function  3 -way proportional pressure control valve  Back-lit LCD LED  Pressure regulation range  0.02 bar 10 bar  Inlet pressure 1  0 bar 11 bar  Inlet pressure 1 MPa  Standard nominal flow rate  Co operating voltage range  21.6 V 26.4 V  Max. current consumption  Duty cycle  100%  Max. electrical power consumption  7 W  Residual ripple  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)  KC characters  KC EMC  CE marking (see declaration of conformity)  To UK instructions for EMC To UK RoHS instructions  Certificate issuing authority  UL E322346	Reset method	Mechanical spring
Display type  Back-lit LCD LED  Pressure regulation range  0.02 bar 10 bar  Inlet pressure 1  0 bar 11 bar  Inlet pressure 1 MPa  0 MPa 1.1 MPa  Standard nominal flow rate  450 l/min 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 %  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)  KC characters  KC EMC  CE marking (see declaration of conformity)  As per EU EMC directive As per EU EMC directive As per EU RMC directive As per EU RMC directive To UK instructions for EMC To UK RoHS instructions  Certificate issuing authority  UL E322346	Type of control	Pilot-controlled
LED  Pressure regulation range  0.02 bar 10 bar  Inlet pressure 1  0 bar 11 bar  Inlet pressure 1 MPa  0 MPa 1.1 MPa  Standard nominal flow rate  450 l/min 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 %  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)  KC characters  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	Valve function	3-way proportional pressure control valve
Inlet pressure 1 Inlet pressure 1 MPa Inlet pressure 1 MPa O MPa 1.1 MPa Standard nominal flow rate DC operating voltage range 21.6 V 26.4 V  Max. current consumption Outy cycle 100% Max. electrical power consumption 7 W Residual ripple 10 % 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) KC characters KC EMC 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	Display type	
Inlet pressure 1 MPa  O MPa 1.1 MPa  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 %  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)  KC characters  KC EMC  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	Pressure regulation range	0.02 bar 10 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 %  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)  KC characters  KC EMC  CE marking (see declaration of conformity)  As per EU EMC directive As per EU ROHS 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	Inlet pressure 1	0 bar 11 bar
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 %  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)  KC characters  KC EMC  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	Inlet pressure 1 MPa	0 MPa 1.1 MPa
Max. current consumption  Duty cycle  100%  Max. electrical power consumption  7 W  Residual ripple  10 %  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)  KC characters  KC EMC  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	Standard nominal flow rate	450 l/min 2750 l/min
Duty cycle  Max. electrical power consumption  7 W  Residual ripple  10 %  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)  KC characters  KC EMC  CE marking (see declaration of conformity)  As per EU EMC directive As per EU ROHS 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	DC operating voltage range	21.6 V 26.4 V
Max. electrical power consumption  Residual ripple  10 %  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)  KC characters  KC EMC  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	Max. current consumption	300 mA
Residual ripple  10 %  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)  KC characters  KC EMC  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	Duty cycle	100%
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)  KC characters  KC EMC  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	Max. electrical power consumption	7 W
Inert gas  Information on operating and pilot media  Operation with oil lubrication not possible  RCM compliance mark c UL us - Listed (OL)  KC characters  KC EMC  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	Residual ripple	10 %
Certification  RCM compliance mark c UL us - Listed (OL)  KC characters  KC EMC  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	Operating medium	
C UL us - Listed (OL)  KC characters  KC EMC  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	Information on operating and pilot media	Operation with oil lubrication not possible
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	Certification	
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	KC characters	KC EMC
To UK RoHS instructions  Certificate issuing authority  UL E322346	CE marking (see declaration of conformity)	
	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC) 2 - Moderate corrosion stress	Certificate issuing authority	UL E322346
	Corrosion resistance class (CRC)	2 - Moderate corrosion stress

Feature	Value
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	10 °C 50 °C
Degree of protection	IP65
Ambient temperature	0 ℃ 60 ℃
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 Via sub-base
Type of mounting	Optionally: With through-hole With accessories
Pneumatic connection 1	1/4 NPT
Pneumatic connection 2	1/4 NPT
Pneumatic connection 3	1/4 NPT
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy Anodized