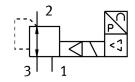
Proportional pressure control valve MPPE-3-1/2-2,5-010-B Part number: 164319

Data sheet



General operating condition

Exhaust nominal width12 mmActuation typeElectricalSealing principleSoftMounting positionAnyStructural designPilot-controlled piston control valveShort-Circuit protectionFor all electrical connectionsSafety position:If an annative discover	Feature	Value
Actuation typeElectricalSealing principleSoftMounting positionAnyStructural designPilot-controlled piston control valveShort-circuit protectionFor all electrical connectionsSafety instructionsMPPE-B safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.Symbol00995303Reverse polarity protectionfor all electrical connectionsSymbol00995303Reverse polarity protectionfor all electrical connectionsValve function3-way proportional pressure control valve closedOperating pressures0.45 MPaOperating pressures0.45 MPaOperating pressure0 MPa 0.25 MPaPressure regulation range0 bar 2.5 barInlet pressure 13.5 bar 4.5 barMax. pressure hysteresis0.004 MPaMax. pressure hysteresis0.04 MPaOn switching time off205 msOn switching time off205 msOperating pressure18 V 30 VReference voltage10 VResidual ripple10 %Operating mediumCompressed ir as per ISO 8573-1:2010[7:4:4]Intert gasIntert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKE MCCertification of conformity)As per EU EMC directive As per EU EMC directive As per EU EMC directive As per EU EMC directive As per EU EMC directive <br< td=""><td>Nominal width pressurization</td><td>11 mm</td></br<>	Nominal width pressurization	11 mm
Sealing principle Soft Mounting position Any Structural design Pilot-controlled piston control valve Short-circuit protection For all electrical connections Safety instructions MPPE-B safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol 00995303 Reverse polarity protection for all electrical connections Valve function 3-way proportional pressure control valve closed Operating pressure s0.45 MPa Operating pressure e4.5 bar Pressure regulation range 0 MPa 0.25 MPa Operating pressure regulation range 0 bar 2.5 bar Inlet pressure 1 3.5 bar 4.5 bar Inlet pressure supsysteresis 0.004 MPa Max, pressure hysteresis 0.04 MPa Switching time off 205 ms Or operating voltage range 10 V Residual ripple 10 % Operating medium Compressed ir as per ISO 873-1:2010[7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible (required for further use) Certification RCM compliance mark KC ch	Exhaust nominal width	12 mm
Mounting position Any Structural design Pilot-controlled piston control valve Short-circuit protection For all electrical connections Safety instructions MPPE-B safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol 00995303 Reverse polarity protection for all electrical connections Valve function 3-way proportional pressure control valve closed Operating pressure s0.45 MPa Operating pressure s4.5 bar Pressure regulation range MPa 0 MPa 0.25 MPa Pressure regulation range MPa 0 Jas 2.5 bar Inlet pressure s4.5 bar Ober and the pressure of the second	Actuation type	Electrical
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Short-circuit protection For all electrical connections Safety instructions MPPE-B safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. Symbol 00995303 Reverse polarity protection for all electrical connections Valve function 3-way proportional pressure control valve closed Operating pressure c0.45 MPa Operating pressure c0.45 MPa Pressure regulation range O MPa 0.25 MPa Pressure regulation range O bar 2.5 bar Inlet pressure 1 3.5 bar 4.5 bar Pressure regulation range O.35 MPa 0.45 MPa Max. pressure 1 MPa 0.35 MPa 0.45 MPa Max. pressure hysteresis 0.004 MPa Max. pressure hysteresis 0.04 bar So preating voltage range 18 V 30 V Reference voltage 10 % Setpoint/actual values Voltage type 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 possible (required for further use) Cettrification RCK compliance mark KC characters KC EMC	Mounting position	Any
Safety instructionsMPPE-B safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form.Symbol00995303Reverse polarity protectionfor all electrical connectionsValve function3-way proportional pressure control valve closedOperating pressures0.45 MPaOperating pressures4.5 barPressure regulation range MPa0 MPa 0.25 MPaPressure regulation range MPa0 bar 0.25 MPaPressure regulation range0 bar 0.45 MPaInlet pressure 1 MPa0.35 MPa 0.45 MPaMax, pressure hysteresis0.004 MPaMax, pressure hysteresis0.04 barSwitching time off205 msDo operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Stepinit/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per IS0 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationKC EMCKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU ROMS directive 	Structural design	Pilot-controlled piston control valve
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Valve function 3-way proportional pressure control valve closed Operating pressure <0.45 MPa	Symbol	00995303
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OutOutOperating pressure\$4.5 barPressure regulation range0 MPa 0.25 MPaPressure regulation range0 bar 2.5 barInlet pressure 13.5 bar 4.5 barInlet pressure 1 MPa0.35 MPa 0.45 MPaMax. pressure hysteresis0.004 MPaMax. pressure hysteresis0.04 barSwitching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)To UK instructions for EMC To UK ROHS instructions	Valve function	3-way proportional pressure control valve closed
DescriptionOMPa 0.25 MPaPressure regulation range0 bar 2.5 barInlet pressure 13.5 bar 4.5 barInlet pressure 10.35 MPa 0.45 MPaMax. pressure hysteresis0.004 MPaMax. pressure hysteresis0.04 barSwitching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Settopint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per IS0 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU ROMS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK ROMS instructions	Operating pressure	≤0.45 MPa
Pressure regulation range0 bar 2.5 barInlet pressure 13.5 bar 4.5 barInlet pressure 1 MPa0.35 MPa 0.45 MPaMax. pressure hysteresis0.004 MPaMax. pressure hysteresis0.04 barSwitching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Settopint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU ROHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK ROHS instructions	Operating pressure	≤4.5 bar
Inlet pressure 13.5 bar 4.5 barInlet pressure 1 MPa0.35 MPa 0.45 MPaMax. pressure hysteresis0.004 MPaMax. pressure hysteresis0.04 barSwitching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU ROK directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK ROHS instructions	Pressure regulation range MPa	0 MPa 0.25 MPa
Inlet pressure 1 MPa0.35 MPa 0.45 MPaMax. pressure hysteresis0.004 MPaMax. pressure hysteresis0.04 barSwitching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Stepoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU ROHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK ROHS instructions	Pressure regulation range	0 bar 2.5 bar
Max. pressure hysteresis0.004 MPaMax. pressure hysteresis0.04 barSwitching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Stopprating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directive To UK noHS instructions	Inlet pressure 1	3.5 bar 4.5 bar
Max. pressure hysteresis0.04 barSwitching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU ROHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK ROHS instructions	Inlet pressure 1 MPa	0.35 MPa 0.45 MPa
Switching time off205 msOn switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK RoHS instructions	Max. pressure hysteresis	0.004 MPa
On switching time85 msDC operating voltage range18 V 30 VReference voltage10 VResidual ripple10 %Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU ROHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK ROHS instructions	Max. pressure hysteresis	0.04 bar
DC operating voltage range 18 V 30 V Reference voltage 10 V Residual ripple 10 % Setpoint/actual values Voltage type 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 possible (required for further use) Certification RCM compliance mark 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	Switching time off	205 ms
Reference voltage10 VResidual ripple10 %Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK RoHS instructions	On switching time	85 ms
Residual ripple10 %Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK RoHS instructions	DC operating voltage range	18 V 30 V
Setpoint/actual valuesVoltage type 0 - 10 VOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK RoHS instructions	Reference voltage	10 V
Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4] Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK RoHS instructions	Residual ripple	10 %
Inert gasInformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)CertificationRCM compliance markKC charactersKC EMCCE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK RoHS instructions	Setpoint/actual values	Voltage type 0 - 10 V
Certification RCM compliance mark 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	Operating medium	
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As per EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions	KC characters	KC EMC
To UK RoHS instructions	CE marking (see declaration of conformity)	
Corrosion resistance class (CRC) 2 - Moderate corrosion stress	UKCA marking (see declaration of conformity)	
	Corrosion resistance class (CRC)	2 - Moderate corrosion stress

Feature	Value
LABS (PWIS) conformity	VDMA24364-B2-L
Temperature of medium	0 °C 60 °C
Degree of protection	IP65
Ambient temperature	0 °C 50 °C
Product weight	2400 g
Electrical connection	8-pin M16x0.75 Plug as per DIN 45326 Round design
Type of mounting	With through-hole
Pneumatic connection 1	G1/2
Pneumatic connection 2	G1/2
Pneumatic connection 3	G1/2
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy
Diaphragm material	NBR