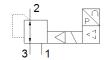
Proportional pressure regulator VPPE-3-1-1/8-6-005-E1-F1A Part number: 8156421







Data sheet

Nominal diameter, exhaust Variants Recommended for production facilities for the manufacture of lithium- ion batteries Recommended for production facilities for the manufacture of lithium- ion batteries Recommended for production facilities for the manufacture of lithium- ion batteries Recommended for production facilities for the manufacture of lithium- ion batteries Sealing principle Any Preferably upright Peloat actuated diaphragm regulator Short circuit strength For all electrical connections VPPE safety position if the power supply cable is interrupted, output pressure is maintained unregulated. For all electrical connections Type of ploting Polarity protected For all electrical connections Type of ploting Piloted Polarity protected For set Inchanical spring Piloted Polarity protected For set Inchanical spring Piloted LED display 3-digit Pressure regulation range O.06 6 bar Inchanical spring Pressure regulation range MPa O.06 6 bar Inchanical pressure 1 O.06 6 bar Inchanical pressure 1 O.06 6 bar Inchanical pressure 1 O.08 8 bar O.03 bar O.03 bar O.03 bar O.03 bar O.0435 psi Standard nominal flow rate Operating voltage range DC 21. 6 26. 4 V Axa. current consumption Axa. electrical power consumption Axa. electrical power consumption Axa. electrical power consumption Axa. electrical power consumption Residual ripple Signal range, analog output PNP Signal range, analog output Departing medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation not possible KCEMV KCEMV KCEMV BUL Salzsade UK CEMV Salzsade UK Salz	Feature	Value
Nominal diameter, exhaust Variants Recommended for production facilities for the manufacture of lithium- ion batteries Recommended for production facilities for the manufacture of lithium- ion batteries Recommended for production facilities for the manufacture of lithium- ion batteries Recommended for production facilities for the manufacture of lithium- ion batteries Sealing principle Any Preferably upright Peloat actuated diaphragm regulator Short circuit strength For all electrical connections VPPE safety position if the power supply cable is interrupted, output pressure is maintained unregulated. For all electrical connections Type of ploting Polarity protected For all electrical connections Type of ploting Piloted Polarity protected For set Inchanical spring Piloted Polarity protected For set Inchanical spring Piloted LED display 3-digit Pressure regulation range O.06 6 bar Inchanical spring Pressure regulation range MPa O.06 6 bar Inchanical pressure 1 O.06 6 bar Inchanical pressure 1 O.06 6 bar Inchanical pressure 1 O.08 8 bar O.03 bar O.03 bar O.03 bar O.03 bar O.0435 psi Standard nominal flow rate Operating voltage range DC 21. 6 26. 4 V Axa. current consumption Axa. electrical power consumption Axa. electrical power consumption Axa. electrical power consumption Axa. electrical power consumption Residual ripple Signal range, analog output PNP Signal range, analog output Departing medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation not possible KCEMV KCEMV KCEMV BUL Salzsade UK CEMV Salzsade UK Salz	Nominal diameter, pressurization	5 mm
ion batteries Sealing principle Sealing principle Sealing principle Soft Assembly position Ary Preferably upright Design structure Pilot actuated diaphragm regulator Short circuit strength Short circuit strength For all electrical connections Shafety instructions VPPE safety position if the power supply cable is interrupted, output pressure is maintained unregulated. Polarity protected for all electrical connections Type of Piloting Piloted Polarity protected Pipe of reset mechanical spring Piloted Piloted Pipe of display LED display LED display LED display Adigit Pressure regulation range MPa O.006 0.6 MPa Pressure regulation range MPa O.006 0.6 MPa Pressure regulation range O.06 0.8 MPa O.06 0.8 MPa O.03 MPa Max. pressure hysteresis (MPa) O.0435 psi Standard nominal flow rate Operating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output PNP Signal range, analog output PNP Signal range, analog output PNP Signal range, analog input Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation not possible Authorization RCM Mark CE symbol (see declaration of conformity) Io UK instructions for EMC ULUS- Listed (OL) KC mark CC-EMV CEIL SUCKA marking (see declaration of conformity) Io UK instructions for EMC Io UK Net Sinstructions Certificate issuing department UL E323246	Nominal diameter, exhaust	2.5 mm
Sealing principle Assembly position Any Preferably upright Design structure Pilot actuated diaphragm regulator Short circuit strength For all electrical connections VPPE safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. For all electrical connections VPPE safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. For all electrical connections Polarity protected For all electrical connections Type of piloting Piloted Valve function 3-way proportional-pressure regulator Type of display LED display 3-digit Pressure regulation range MPa 0.006 0.6 MPa Pressure regulation range MPa 0.006 0.6 MPa Pressure regulation range 0.0.6 0.8 MPa Max. pressure I MPa 0.6 0.8 MPa Max. pressure I MPa 0.6 0.8 MPa Max. pressure hysteresis (MPa) 0.03 MPa Max. pressure hysteresis (MPa) 0.03 BPa Standard nominal flow rate 0.0435 psi Standard nominal flow rate 0.0436 psi Standard nominal flow rate 0.0436 psi Standard nominal flow rate 0.09 try cycle 100 % Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Rescidual ripple 10 % Switch output PNP Signal range, analog output 1 - 5 V Signal range, analog output 0.0 - 5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark CL U. s Listed (OL) KC mark KC-EMV CE symbol (see declaration of conformity) 10 UK instructions for EMC CUL U. s Listed (OL) KC mark CE symbol (see declaration of conformity) 10 UK instructions Certificate issuing department UL E322346	Variants	· · · · · · · · · · · · · · · · · · ·
Sealing principle Assembly position Any Preferably upright Design structure Pilot actuated diaphragm regulator Short circuit strength For all electrical connections VPPE safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. For all electrical connections VPPE safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. For all electrical connections Polarity protected For all electrical connections Type of piloting Piloted Valve function 3-way proportional-pressure regulator Type of display LED display 3-digit Pressure regulation range MPa 0.006 0.6 MPa Pressure regulation range MPa 0.006 0.6 MPa Pressure regulation range 0.0.6 0.8 MPa Max. pressure I MPa 0.6 0.8 MPa Max. pressure I MPa 0.6 0.8 MPa Max. pressure hysteresis (MPa) 0.03 MPa Max. pressure hysteresis (MPa) 0.03 BPa Standard nominal flow rate 0.0435 psi Standard nominal flow rate 0.0436 psi Standard nominal flow rate 0.0436 psi Standard nominal flow rate 0.09 try cycle 100 % Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Rescidual ripple 10 % Switch output PNP Signal range, analog output 1 - 5 V Signal range, analog output 0.0 - 5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark CL U. s Listed (OL) KC mark KC-EMV CE symbol (see declaration of conformity) 10 UK instructions for EMC CUL U. s Listed (OL) KC mark CE symbol (see declaration of conformity) 10 UK instructions Certificate issuing department UL E322346	Type of actuation	electrical
Assembly position Perferably upright Design structure Pilot actuated diaphragm regulator Short circuit strength Safety instructions VPPE safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. Polarity protected For all electrical connections Type of reset Type of piloting Piloted 3-way proportional-pressure regulator Type of piloting Piloted 3-way proportional-pressure regulator Type of display LED display 3-digit Pressure regulation range MPa 0.06 0.6 MPa Pressure regulation range 0.06 0.6 MPa Pressure regulation range 0.06 0.8 MPa Max. pressure hysteresis (MPa) 0.003 MPa Max. pressure hysteresis (MPa) 0.03 bar 0.435 psi Standard nominal flow rate 800 l/min Operating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100 % Max. current consumption 4.2 W Residual ripple 10% Switch output Signal range, analog output 1 - 5 V Signal range, analog input 0 - 5 V Operating medium Lubricated operating not possible RCM Mark CC symbol (see declaration of conformity) LUE 322366 Certificate issuing department UL E322366 Certificate issuing department UL E322366 Certificate issuing department UL E322366 LUE SIZESAGE LOUTE SAFENDER LOUTE SAFENDE		soft
Design structure Short circuit strength Short circuit strength Safety instructions VPPE safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. Polarity protected For all electrical connections Type of reset mechanical spring Piloted Valve function Type of display LED display Pressure regulation range MPa Pressure regulation range MPa Pressure regulation range O.06 0.6 MPa Pressure supply resesses (MPa) Max. pressure IMPa Max. pressure hysteresis (MPa) Max. pressure hysteresis (MPa) Max. current consumption Doperating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle Max. electrical power consumption A.2 W Residual ripple Now. electrical power consumption A.2 W Residual ripple Now. electrical power consumption A.2 W Residual ripple O.5 V Operating medium Lubricated operation not possible Authorization RCM Mark CU us - Listed (OU) KC mark CE symbol (see declaration of conformity) To UK instructions of EMC Certificate issuing department UL S222346 UL S22346	Assembly position	'
Short circuit strength Safety instructions VPPE safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. Polarity protected for all electrical connections Type of reset mechanical spring Piloted Valve function 3 -way proportional-pressure regulator Type of display LED display 3-digit Pressure regulation range MPa 0.06 0.6 MPa Pressure regulation range MPa 0.06 0.6 MPa Pressure regulation range 0.06 0.8 Bar Supply pressure 1 MPa 0.03 MPa Max. pressure lnysteresis (MPa) 0.03 MPa Max. pressure hysteresis (MPa) 0.03 MPa Max. pressure hysteresis 0.03 bar 0.0435 psi Standard nominal flow rate 0.09 c 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output PNP Signal range, analog output 1 - 5 V Signal range, analog input 0 - 5 V Operating wold medium Lubricated operation not possible RCM mark CE symbol (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing department ULE 322346	Design structure	
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Type of piloting Valve function 3-way proportional-pressure regulator Type of display LED display 3-digit Pressure regulation range MPa 0.006 0.6 MPa Pressure regulation range 0.06 0.6 m A Supply pressure 1 6 8 bar Supply pressure 1 MPa 0.6 0.8 MPa Max. pressure hysteresis (MPa) 0.03 MPa Max. pressure hysteresis (MPa) 0.03 MPa Max. pressure hysteresis (MPa) 0.0435 psi Standard nominal flow rate 0.0435 psi Standard nominal flow rate 0.09 Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output PNP Signal range, analog output 1 - 5 V Signal range, analog input 0 - 5 V Operating medium Compressed air in accordance with ISO8573-1;2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark CL us - Listed (OL) KC-EMV CE symbol (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Certificate issuing department UL 5232346 UL 15232346	Polarity protected	for all electrical connections
Valve function Type of display LED display Jadigit Pressure regulation range MPa O.006 0.6 MPa Pressure regulation range MPa O.006 0.6 MPa Pressure regulation range O.06 0.6 bar Inlet pressure 1 G 8 bar Supply pressure 1 MPa O.03 MPa Max. pressure hysteresis (MPa) O.03 MPa Max. pressure hysteresis O.03 bar O.435 psi Standard nominal flow rate Operating voltage range DC Duty cycle Operating voltage range DC Duty cycle 100 % Max. electrical power consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output Signal range, analog output 1 - 5 V Signal range, analog output 1 - 5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark CUL us - Listed (OL) KC mark CE symbol (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Certificate issuing department UL E322346 CE et instructions Certificate issuing department UL E322346 UL E322346	Type of reset	mechanical spring
Type of display LED display 3-digit 3-digit 0.006 0.6 MPa Pressure regulation range MPa 0.006 0.6 bar Inlet pressure 1 6 8 bar Supply pressure 1 MPa 0.003 MPa Max. pressure hysteresis (MPa) 0.03 bar 0.435 psi Standard nominal flow rate Operating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100% Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output PNP Signal range, analog output 1 - 5 V Signal range, analog output 0 - 5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark CC Symbol (see declaration of conformity) UKCA marking (see declaration of conformity) To UK nestructions Certificate issuing department UL B322346 UL B1523246 UL B232346 UL B1523246 UL B1523246 UL B232346 UL B1522346 UL B232346 UL B1522346 UL B232346 UL B1522346 UL B232346 UL B1522346 UL B1522346 UL B232346	Type of piloting	
3-digit Pressure regulation range MPa 0.006 0.6 MPa Pressure regulation range 0.06 0.6 bar Inlet pressure 1 Supply pressure 1 MPa 0.6 0.8 MPa Max. pressure hysteresis (MPa) 0.03 MPa Max. pressure hysteresis 0.03 bar 0.435 psi Standard nominal flow rate 800 I/min Operating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output Signal range, analog output 1 - 5 V Signal range, analog output 1 - 5 V Signal range, analog input 0 - 5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization KC mark CE symbol (see declaration of conformity) To UK RoHS instructions Certificate issuing department ULL 5322346 ULL 5322346 ULL 5322346	Valve function	3-way proportional-pressure regulator
Pressure regulation range 0.06 6 bar Inlet pressure 1 5 8 bar Supply pressure 1 MPa 0.6 0.8 MPa Max. pressure hysteresis (MPa) 0.03 MPa Max. pressure hysteresis 0.03 bar 0.435 psi Standard nominal flow rate 800 l/min Operating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output PNIP Signal range, analog output 1 - 5 V Signal range, analog input 0 - 5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark CUL us - Listed (OL) KC mark CE symbol (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing department ULE 322346 CE etificate issuing department ULE 322346	Type of display	
Inlet pressure 1 6 8 bar Supply pressure 1 MPa 0.6 0.8 MPa Max. pressure hysteresis (MPa) 0.003 MPa Max. pressure hysteresis 0.03 bar 0.435 psi Standard nominal flow rate 800 I/min Operating voltage range DC 21.6 26.4 V Max. current consumption 160 MA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output PNP Signal range, analog output 1.5 V Signal range, analog input 0.5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Innert gases Note on operating and pilot medium Lubricated operation not possible Authorization RCM Mark CU Lus - Listed (OL) KC mark KC EMV UKCA marking (see declaration of conformity) accordance with EMP Get in accordance with UL Bats directive To UK instructions for EMC To UK ROHS instructions Certificate issuing department ULE 322346	Pressure regulation range MPa	0.006 0.6 MPa
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Max. pressure hysteresis (MPa) Max. pressure hysteresis O.33 bar O.435 psi Standard nominal flow rate Social poperating voltage range DC Max. current consumption Duty cycle Max. electrical power consumption A.2 W Residual ripple Signal range, analog output Signal range, analog input Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark CUL us - Listed (OL) KC mark CE symbol (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Certificate issuing department UL E322346 CAM MARS CUL E322346	Inlet pressure 1	6 8 bar
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Standard nominal flow rate Standard nominal flow rate Operating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple 10 % Switch output PNP Signal range, analog output 1 - 5 V Signal range, analog input 0 - 5 V Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark c UL us - Listed (OL) KC mark CE symbol (see declaration of conformity) according to EU-EMV guideline in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions Certificate issuing department UL E322346	Max. pressure hysteresis (MPa)	0.003 MPa
Standard nominal flow rate Operating voltage range DC 21.6 26.4 V Max. current consumption 160 mA Duty cycle 100 % Max. electrical power consumption 4.2 W Residual ripple Switch output PNP Signal range, analog output 1 - 5 V Signal range, analog input Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark c UL us - Listed (OL) KC mark CE symbol (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing department UL 532346 CE 100 MA CE 11.6 26.4 V Authorization ROM ARA c UL us - Listed (OL) CE 322346	Max. pressure hysteresis	
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Signal range, analog output Signal range, analog input Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation not possible Authorization RCM Mark c UL us - Listed (OL) KC mark KC-EMV CE symbol (see declaration of conformity) according to EU-EMV guideline in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing department UL E322346		
Signal range, analog input Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation not possible RCM Mark c UL us - Listed (OL) KC mark KC-EMV CE symbol (see declaration of conformity) according to EU-EMV guideline in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing department UL E322346	•	
Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Authorization RCM Mark c UL us - Listed (OL) KC mark KC-EMV CE symbol (see declaration of conformity) according to EU-EMV guideline in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing department UL E322346		
Note on operating and pilot medium Authorization RCM Mark c UL us - Listed (OL) KC mark KC-EMV CE symbol (see declaration of conformity) according to EU-EMV guideline in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Certificate issuing department UL E322346	Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Authorization RCM Mark c UL us - Listed (OL) KC mark KC-EMV CE symbol (see declaration of conformity) according to EU-EMV guideline in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Certificate issuing department UL E322346	Note on operating and pilot medium	
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Certificate issuing department UL E322346	oner marking (see decidration of comorning)	
	Cartificate issuing department	
LOTTOCION TOCICTANCO CIACCITICATION I VI	Corrosion resistance classification CRC	2 - Moderate corrosion stress



Feature	Value
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 4
Medium temperature	10 50 °C
Protection class	IP65
Ambient temperature	0 60 °C
Product weight	390 g
Linearity	1 %FS
Hysteresis	0.5 %FS
Reproducibility	0.5 %FS
Overall accuracy	1,25 %FS
Temperature coefficient	0.04 %/K
Electrical connection	5-pin
	M12
	Plug
Mounting type	with through hole
Pneumatic connection, port 1	G1/8
Pneumatic connection, port 2	G1/8
Pneumatic connection, port 3	G1/8
Materials note	Conforms to RoHS
Material housing	Aluminium, powder-coated