## **FESTO**

## Mass flow controller (MFC) VEFC-L-6-200-D31-G14-G14-MRM1

Part number: 8204587



## **Data sheet**

Tow rate control range	Feature	Value
Non-reversible Operating pressure Overload press	Degree of protection	IP20
Overload pressure  1.4 MPa 14 bar 203 psi  Abar0.7 MPa 3 bar7 bar 43.5 psi101.5 psi  Overload pressure  Overload pressure  1.4 MPa 14 bar 203 psi  Overload pressure  1.5 Verload pressure  Overload pressure  Overload pressure  1.5 Verload pressure  Overload pressure  Ov	Flow rate control range	10 l/min200 l/min
6 bar  Overload pressure  0.8 MPa 8 bar 116 psi  Burst pressure  1.4 MPa 1.4 bar 203 psi nlet pressure 1  0.3 MPa0.7 MPa 3 bar7 bar 43.5 psi101.5 psi  Suitability for vacuum  yes Valve function  2-way proportional flow control valve Electric Pneumatic connection, port 1  61/4 Pneumatic connection, port 2  Gal/4 Petaltive air humidity  5 - 85 % Non-condensing  Slimatic category  3K22 to EN 60721  Sominal altitude of use  - 2000 m NHN  Operating medium  Compressed air to ISO 8573-1;2010 [7:4:4] Inert gases  Media temperature  15 °C35 °C  Storage temperat	Flow direction	Non-reversible
Burst pressure 14 MPa 14 bar 203 psi 14 MPa 14 bar 203 psi 15 Psi 15 Psi 16 psi 16 psi 16 psi 16 psi 17 bar 18 bar. Thar 43.5 psi101.5 psi 16 psi	Operating pressure	
14 bar 203 psi  nlet pressure 1  0.3 MPa0.7 MPa 3 bar7 bar 43.5 psi101.5 psi  suitability for vacuum  yes  falve function  2-way proportional flow control valve  Electric  Pneumatic connection, port 1  61/4  Pneumatic connection, port 2  61/4  Relative air humidity  5 - 85 %  Non-condensing  Climatic category  3K22 to EN 60721  Nominal altitude of use  2 = 2000 m NHN  Chapterating medium  Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Ambient temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Nominal operating voltage DC  Volume to sumption  24 V  Operational voltage range DC  Aux. current consumption  1.3 W  Overvoltage category  II	Overload pressure	8 bar
3 bar7 bar 43.5 psi101.5 psi  Suitability for vacuum  yes  Alve function  2-way proportional flow control valve  Electric  Premarkic connection, port 1  G1/4  Premarkic connection, port 2  G1/4  Relative air humidity  Non-condensing  Climatic category  Nominal altitude of use  Operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]  Inert gases  Wedia temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  Proportional operating voltage DC  Amaz. current consumption  Deveroltage category  II	Burst pressure	14 bar
Alve function  2-way proportional flow control valve  Electric  Pneumatic connection, port 1  Call  Pneumatic connection, port 2  Electric  Call  Call	Inlet pressure 1	3 bar7 bar
Electric Pneumatic connection, port 1 Call to	Suitability for vacuum	yes
Preumatic connection, port 1  Preumatic connection, port 2  G1/4  Relative air humidity  S- 85 %  Non-condensing  Climatic category  Strong medium  Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Media temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  15 °C50 °C  Storage temperature  Preumatic connection, port 1  G1/4  G1/4  G1/4  G1/4  G1/4  G1/4  Non-condensing  SK22 to EN 60721  Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Gases  Ambient temperature  15 °C35 °C  Storage temperature  24 V  Deparational operating voltage DC  Max. current consumption  Gases  Ga	Valve function	2-way proportional flow control valve
Preumatic connection, port 2  G1/4  Relative air humidity  S - 85 % Non-condensing  3K22 to EN 60721  Nominal altitude of use  <= 2000 m NHN  Derating medium  Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Media temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  -20 °C50 °C  Nominal operating voltage DC  Departional voltage range DC  Max. current consumption  Max. electrical power consumption  1.3 W  Devervoltage category  II	Type of actuation	Electric
Relative air humidity  5 - 85 % Non-condensing  3K22 to EN 60721  Vominal altitude of use  <= 2000 m NHN  Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Media temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  -20 °C50 °C  Nominal operating voltage DC  Operational voltage range DC  Max. current consumption  55 mA  Max. electrical power consumption  1.3 W  Overvoltage category	Pneumatic connection, port 1	G1/4
Non-condensing  3K22 to EN 60721  Nominal altitude of use  <= 2000 m NHN  Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Media temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  -20 °C50 °C  Nominal operating voltage DC  24 V  Operational voltage range DC  Max. current consumption  55 mA  Max. electrical power consumption  1.3 W  Overvoltage category  II	Pneumatic connection, port 2	G1/4
Nominal altitude of use  <= 2000 m NHN  Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Media temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  -20 °C50 °C  Nominal operating voltage DC  Operational voltage range DC  Max. current consumption  55 mA  Max. electrical power consumption  1.3 W  Overvoltage category  II	Relative air humidity	
Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases  Media temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  -20 °C50 °C  Nominal operating voltage DC  24 V  Operational voltage range DC  Max. current consumption  55 mA  Max. electrical power consumption  1.3 W  Overvoltage category	Climatic category	3K22 to EN 60721
Inert gases  Media temperature  15 °C35 °C  Ambient temperature  15 °C35 °C  Storage temperature  -20 °C50 °C  Nominal operating voltage DC  24 V  Operational voltage range DC  Max. current consumption  55 mA  Max. electrical power consumption  1.3 W  Overvoltage category	Nominal altitude of use	<= 2000 m NHN
Ambient temperature 15 °C35 °C Storage temperature -20 °C50 °C Nominal operating voltage DC Operational voltage range DC Max. current consumption 55 mA Max. electrical power consumption 1.3 W Overvoltage category II	Operating medium	
Storage temperature -20 °C50 °C  Nominal operating voltage DC 24 V  Operational voltage range DC 24 V  Max. current consumption 55 mA  Max. electrical power consumption 1.3 W  Overvoltage category II	Media temperature	15 °C35 °C
Nominal operating voltage DC  Departional voltage range DC  Ax. current consumption  55 mA  Max. electrical power consumption  1.3 W  Devervoltage category	Ambient temperature	15 °C35 °C
Operational voltage range DC  Max. current consumption  55 mA  Max. electrical power consumption  1.3 W  Overvoltage category  II	Storage temperature	-20 °C50 °C
Max. current consumption 55 mA  Max. electrical power consumption 1.3 W  Overvoltage category II	Nominal operating voltage DC	24 V
Max. electrical power consumption 1.3 W  Overvoltage category II	Operational voltage range DC	24 V
Overvoltage category II	Max. current consumption	55 mA
	Max. electrical power consumption	1.3 W
Residual ripple ± 10%	Overvoltage category	II .
	Residual ripple	± 10%

Feature	Value
Electrical connection 1, function	Power supply
Electrical connection 1, connection type	Socket
Electrical connection 1, connector system	Sub-D
Electrical connection 1, number of connections/cores	9
Buffer time for voltage failure of logic supply	10 ms
Setpoint value input	0 - 10 V 4 - 20 mA
Protection against direct and indirect contact	PELV
Display type	LED
Reverse polarity protection	For operating voltage
Total accuracy	2.5% FS
Reproducibility	0.75 %FS
Linearity	1.5 %FS
Hysteresis	1 %FS
Product weight	250 g
Material seals	HNBR NBR
Note on materials	RoHS-compliant
Dimensions (W x L x H)	24 mm x 130 mm x 97.1 mm
Instructions on use	The product is suitable for industrial purposes only. Measures to eliminate radio interference may be required in residential areas. For indoor use only
Fire test material	UL94 HB
Pollution degree	2
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
CE marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC mark	KC-EMV
KC Approval No. EMC/Radio	R-R-FTO-KC-2024-1003
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Metals with more than 5% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils