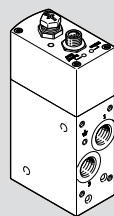


# VPCF-6-L-8-G38-...-E-EX2

## Proportional flow control valve



# FESTO

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Addendum document | Operating conditions EX

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Translation of the original instructions

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## 1 Identification EX

Identification		
	II 3G	Ex ec IIC T5 Gc X
	II 3D	Ex tc IIIC T60°C Dc X

Tab. 1: Identification EX VPCF

## 2 Applicable documents

### NOTICE

Technical data for the product can have different values in other documents. For operation in an explosive atmosphere, the technical data in this document always have priority.



All available documents for the product → [www.festo.com/sp](http://www.festo.com/sp).

## 3 Certified products

Product	Part number
VPCF-6-L-8-G38-6-A4-E-EX2	8041713
VPCF-6-L-8-G38-6-V1-E-EX2	8041714
VPCF-6-L-8-G38-10-A4-E-EX2	8041715
VPCF-6-L-8-G38-10-V1-E-EX2	8041716

Tab. 2: Certified products

Designation	Type	Part no.
Adapter	NEFV-V12-M12W8-0.6-M12QG5	4787544
Plug socket with cable	NEBU-M12W8-K-2-N-LE8	542256
Plug socket with cable	NEBU-M12W8-K-5-N-LE8	542257
Plug socket with cable	SIM-M12-8GD-2-PU	525616
Plug socket with cable	SIM-M12-8GD-5-PU	525618
Safety clip	NEAU-M12-GD	548068
Protective cap	ISK-M-12	352059

Tab. 3: Relevant accessories

## 4 Safety

### 4.1 Safety instructions

- The device can be used under the stated operating conditions in zone 2, explosive gas atmospheres, and in zone 22, explosive dust atmospheres.
- Only operate the device with a suitable operating medium → Technical data
- Draw in of the operating medium outside the potentially explosive area.
- Check ATEX suitability if different plug sockets with cables are used. Plug must ensure IP protection.
- All work must be carried out outside of potentially explosive areas.
- The device may only be used in the delivered configuration in a potentially explosive atmosphere.
- Use the device in its original status, without any unauthorised modifications.
- Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers.

### 4.2 Intended use

The proportional flow control valve regulates the flow rate proportionally to a given setpoint value.

### 4.3 Identification X: special conditions

- Do not disconnect or open when powered.
- Prevent disconnection of the M12 plug with the safety clip NEAM-M12-GD (not in scope of delivery) or with an additional housing with a special closure.
- Seal unused connections with the cover caps ISK-M12 (not in scope of delivery).
- Ambient temperature:  $0\text{ °C} \leq T_a \leq +50\text{ °C}$
- The device must be operated only in an environment with a minimum contamination level of 2, as defined in IEC 60664-1.

## 5 Function

The flow control valve is a proportional directional control valve with integrated flow regulator. The flow regulator determines the current flow rate based on its internal measured values and compares it to the setpoint value. If the current value deviates from the setpoint, the valve is actuated until the flow has reached the setpoint value.

## 6 Commissioning

### NOTICE

Escaping exhaust air can swirl up dust and create an explosive dust atmosphere.

## 7 Maintenance

- Repairs are not possible.
- The device is maintenance-free.

## 8 Technical data

VPCF-6-L-8-G38-...-E-EX2		
Operating voltage range	[V DC]	20.4 ... 30
Ambient temperature	[°C]	$0 \leq T_a \leq +50$
Temperature of medium	[°C]	$+15 \leq T_m \leq +35$
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [6:4:4] Lubricated operation not possible
Max. current consumption	[A]	1.2
Digital input		In accordance with IEC 61131-2:2007-07
Digital outputs		In accordance with IEC 61131-2:2007-07, PNP
Fuse protection D <sub>OUT</sub>		Internal electronic fuse
Rated current load D <sub>OUT</sub> per output	[mA]	100
Analogue input	[mA]	4 ... 20
	[V]	0 ... 10
Analogue output	[mA]	4 ... 20
	[V]	0 ... 10
Degree of protection		IP65
Mounting		Individual mounting
Mounting position		Any

Tab. 4: Operating conditions