

Valve systems ▶ Valve systems

5/3-directional valve, Series HF03-LG

- ▶ for Series HF03-LG, CL03 ▶ Qn = 850 l/min ▶ Pilot valve width: 16 mm ▶ closed center ▶ plate connection
- ▶ Manual override: with detent ▶ Pilot: external, internal



00138485

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	-0.9 bar / 10 bar
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	+0 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow Qn	850 l/min
Protection class with connection	IP65
Protective circuit	Z-diode Protected against polarity reversal
Status display LED	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	15 ms
Generic emission standard in accordance with	EN 50081-1
Generic immunity standard in accordance with	EN 50082-2
Mounting screw	cross recessed DIN EN ISO 4757-Z1
Mounting screw tightening torque	1.3 Nm
Weight	0.082 kg
 Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
- The pilot valve is UL (Underwriters Laboratories) certified.

Operational voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-15% / +20%	0.35

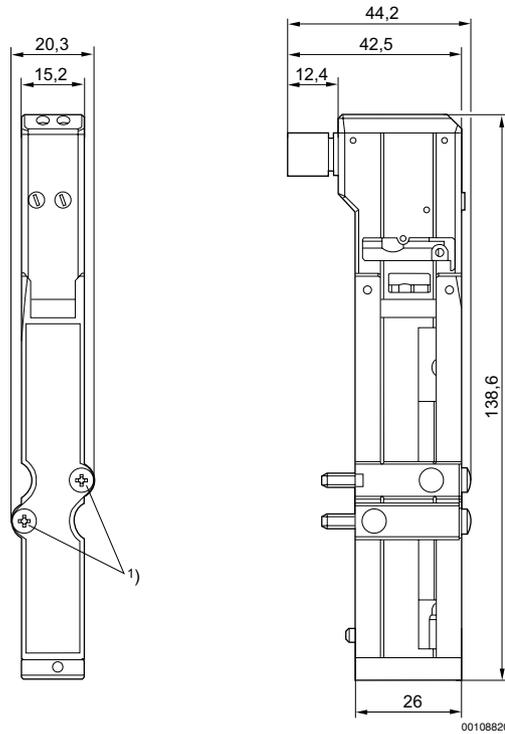
	MO	Operating voltage	Power consumption	Flow conductance		Part No.
				b	C	
		DC	DC			
			[W]		[l/(s*bar)]	
		24 V	0.35	0.23	2.79	0820055601

MO = Manual override
 With collective pilot air exhaust
 Nominal flow Qn at 6 bar and Δp = 1 bar

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Dimensions



1) Mounting screw: X-slot DIN EN ISO 4757-Z1
tightening torque for mounting screw [Nm]: 1.3