Valve systems → Valve systems

2x3/2-way valve, Series HF03-LG, CL03, CL03-XL

► Qn = 850 l/min ► plate connection ► Manual override: without detent

00106356

Version	Spool valve, zero overlap
Pilot	external, internal
Sealing principle	soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	-0.9 bar / 10 bar
Control pressure min./max.	2.5 bar / 10 bar
Ambient temperature min./max.	+0°C / +50°C
Medium temperature min./max.	+0°C / +50°C
Medium	Compressed air
Degree of protectionwith electrical connector/plug	IP 65
Protective circuit	Z-diode
	Protected against polarity reversal
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	16 ms
Switch-off time	25 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 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 Bosch Rexroth, 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.

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

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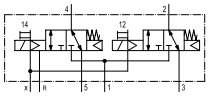
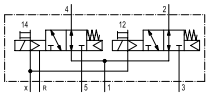
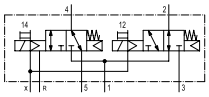
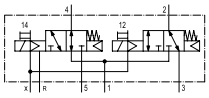
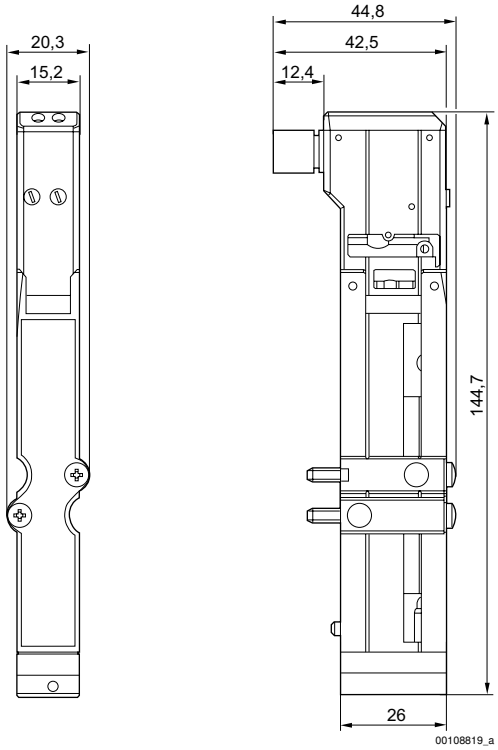
		MO	Operating voltage	Flow conductance		Flow rate value	Part No.
			DC	b	C	Qn	
					[l/(s*bar)]	[l/min]	
	NC/NC		24 V	0.22	2.97	850	**0820055102**
	NO/NO		24 V	0.22	2.97	850	**0820055202**
	NC/NO		24 V	0.22	2.97	850	**0820055302**
	NO/NC		24 V	0.22	2.97	850	**0820055312**

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

Dimensions



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