

Valve systems ▶ Valve systems

2x3/2-directional valve, Series HF03-LG, CL03

▶ Qn = 850 l/min ▶ Pilot valve width: 16 mm ▶ plate connection ▶ Manual override: without detent ▶ Pilot: External, internal



00106356

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.	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 protection With connection	IP65
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 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
24 V	-15% / +20%	0.35 W

	MO	Operational voltage	Power consumption	Flow conductance		Flow rate value	Part No.	
				b	C	Qn		
		DC	24 V DC					
			[W]		[l/(s*bar)]	[l/min]		
	NC/NC		24 V	0.35	0.22	2.97	850	0820055102

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

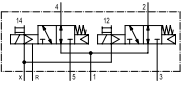

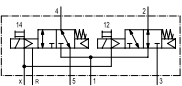

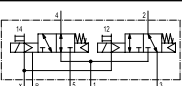

Supplementary products

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2015-01-22, ©AVENTICS S.a.r.l., subject to change

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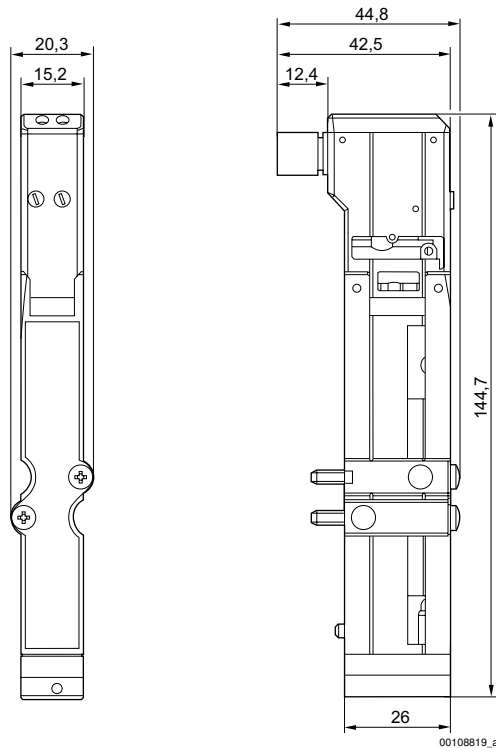
		MO	Opera-	Power	Flow conductance		Flow rate	Part No.
			tional	consumption	b	C	value	
			DC	24 V DC			Qn	
				[W]		[l/(s*bar)]	[l/min]	
	NO/NO		24 V	0.35	0.22	2.97	850	0820055202
	NC/NO		24 V	0.35	0.22	2.97	850	0820055302
	NO/NC		24 V	0.35	0.22	2.97	850	0820055312

HHB = Manual override

With collective pilot air exhaust

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Dimensions



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

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