**Valve systems → Valve systems**

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

**► Qn = 850 l/min ► plate connection ► Manual override: with 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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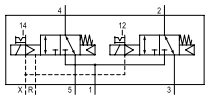
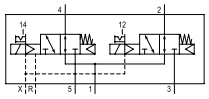
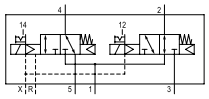
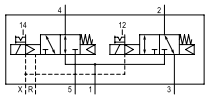
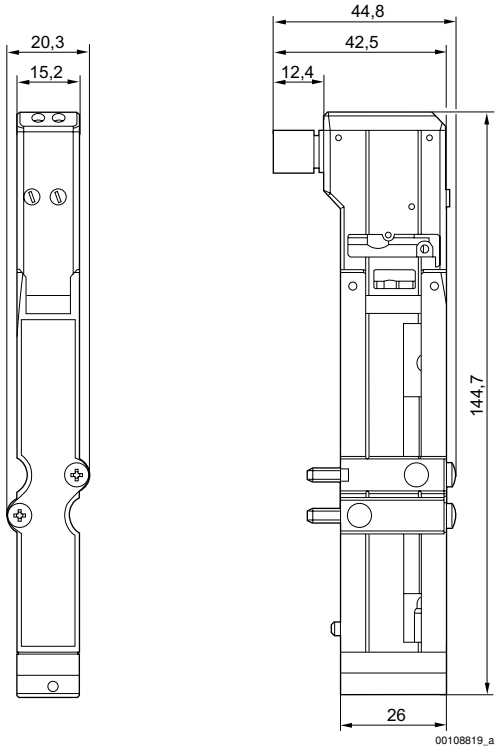
| | | MO | Operating voltage | Flow conductance | | Flow rate value | Part No. |
|---|---|---|---|---|---|---|---|
| | | | DC | b | C | Qn | |
| | | | | | [l/(s*bar)] | [l/min] | |
|  | NC/NC | | 24 V | 0.22 | 2.97 | 850 | **0820055101** |
|  | NO/NO | | 24 V | 0.22 | 2.97 | 850 | **0820055201** |
|  | NC/NO | | 24 V | 0.22 | 2.97 | 850 | **0820055301** |
|  | NO/NC | | 24 V | 0.22 | 2.97 | 850 | **0820055311** |

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