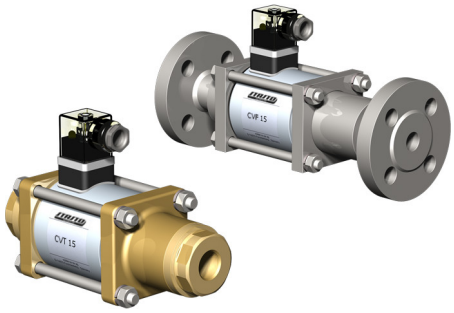
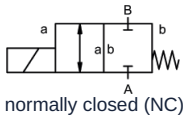
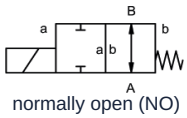
Partnership. With Guarantee.

# 2/2-Way coaxial solenoid valve - direct-acting
# Series CVT/CVF-50





normally closed (NC)



normally open (NO)

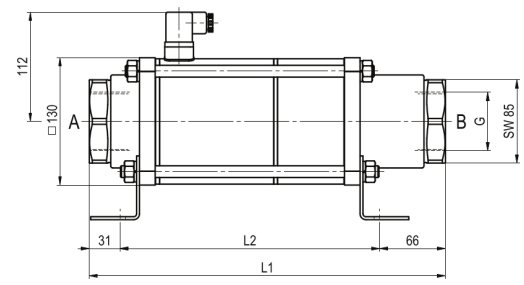
| | |
|---|---|
| Design type | 2/2-way coaxial solenoid valve, direct-acting, normally closed or normally open |
| Mode of operation | pressure-relieved, with spring return |
| Nominal size | DN 50mm |
| Connection | CVT: G2", CVF: Flange PN16, Special flanges and threads on request |
| Pressure range | 0...16bar |
| Back pressure | P2 > P1, available (max. 16bar) |
| Materials | optional Body Brass, Nickel-plated brass, Nickel-plated steel, Galvanized steel, non-ferrous metal-free or Stainless steel<br>Valve seat Plastic on metal, Sealing materials NBR, PTFE, FKM, CR, EPDM<br>The material specifications of the versions refer exclusively to the valve connection parts in contact with the medium |
| Media | gaseous - liquid - high-viscosity - gelatinous - contaminated |
| Flow direction | A → B, according to marking, (Special version alternating max. 10bar) |
| Mounting type | Installation in rigid piping system, Mounting bracket on request |
| Mounting position | any |
| Vacuum Leakage rate | < $10^{-6}$ mbar*l*$s^{-1}$ |
| Kv value | 38m³/h |
| Switching cycles | 40/min. |
| Switching time | ON 400ms, CLOSED 400ms |
| Medium temperature | -20...+80°C (Special version -20...+120°C) |
| Ambient temperature | -20...+80°C |
| Approvals | on request LR/DNV/EN10204 |
| Weight | CVT 25,5kg, CVF 31,0kg |
| Options | Vacuum tests with certificate, Limit switch inductive (Normally closed (NC) PNP- Icomatic/Balluf), Limit switch inductive NAMUR (+ Switching amplifier), Version ATEX, cushioned closing, Manual emergency override |



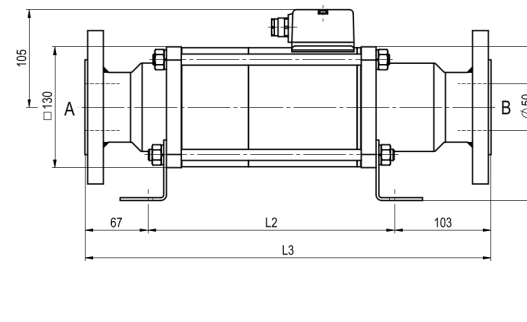
+43 512 52076
austria@stasto.eu
© STASTO Automation KG

| | |
|---|---|
| Voltage type | AC and DC voltage |
| Standard voltage | 230V/40-60Hz, 24VDC, Permissible voltage fluctuation +5% / -10% |
| Special voltages | on request |
| Solenoid system | DC DC solenoid, AC DC solenoid with integrated rectifier (above 100°C with separate rectifier) |
| Insulation class | H 180°C |
| Current consumption | N-coil 24VDC 2,5A, 230VAC 0,29A, H-coil 24VDC 3,29A, 230VAC 0,43A |
| Duty cycle | 100% duty cycle (continuous operation) |
| Degree of protection | IP65 according to EN 60529 with correctly mounted device connector (protection against dust ingress and water jets) |
| Scope of delivery | incl. connector according to EN175301-803 Form A (formerly DIN43650)-Cable entry M16x1,5 |
| optional | Terminal box M16x1,5 on request |
| Additional equipment | Illuminated connector with varistor |
| | |
| Ordering information | Nominal size, Connection, Function NC/NO, Operating pressure, Flow rate, Medium, Medium temperature, Ambient temperature, Rated voltage, Rated voltage Limit switch |
| Application note | The technical design of the valves is media- and application-specific, which may result in deviations from the general specifications stated in the data sheet with regard to version, sealing materials and characteristic values. In the event of inaccurate or incomplete ordering information or application data, there is a risk of incorrect technical sizing of the valves for the intended application purpose. This may result in the physical and/or chemical properties of the materials or seals used being insufficient for the intended application purpose. |

## Dimensions




CVT-50 Function NC




CVF-50 Function NO

| Installation lengths | L1 | L2 | L3 |
|---|---|---|---|
| Standard, ATEX Zones 2, 22 | 365 | 268 | 438 |
| ATEX Zones 1, 21 | 365 | 268 | 438 |
| Standard, ATEX Zones 2, 22, with 1/2 inductive limit switches | 365 | 268 | 438 |
| ATEX Zones 1, 21, with 1/2 inductive limit switches | 365 | 268 | 438 |
| Standard, ATEX Zones 2, 22, Manual emergency actuation version (Hd) Hood with 1/2 inductive limit switches | 365 | 268 | 438 |
| ATEX Zones 1, 21, Manual emergency actuation version (Hd) Hood with 1/2 inductive limit switches | 365 | 268 | 438 |
| with mechanical limit switches | 365 | 268 | 438 |

| Flange PN | DIN | ØD | Øk | Ød |
|---|---|---|---|---|
| 16 | EN 1092-1 | 165 | 125 | 18 |

Mounting brackets must be ordered separately



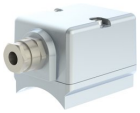
+43 512 52076
austria@stasto.eu


© STASTO Automation KG

## Electrical connections



DIN EN 175301-803



Terminal box



Form A connector
DIN EN 175301-803

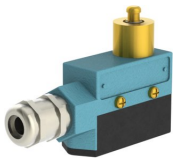
## Limit switch



Icomatic Plastic version
M12x1, DC 10 - 60V
AC 15 - 250V
-25...+85°C



Balluff Metal version
M12x1, DC 10 - 30V
-25...+70°C



Honeywell
Changeover contact

Illustrations non-binding
Design, dimensional and material changes reserved





+43 512 52076
austria@stasto.eu
© STASTO Automation KG