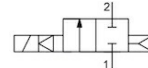


## 2/2-Way solenoid valve - pilot-operated Series SL188



normally closed (de-energized closed)

|                     |                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Design type         | 2/2-way solenoid valve with diaphragm seal-off, pilot-operated, normally closed (de-energized closed)                                |
| Connection          | G3/8"...G1/2" according to ISO228/1                                                                                                  |
| Materials           | Body Brass, Internal parts Brass and Stainless steel similar 1.4104, Guide tube Stainless steel, Diaphragm material NBR, EPDM or FKM |
| Application range   | gaseous and liquid media that do not attack the materials used                                                                       |
| Viscosity           | max. 12mm <sup>2</sup> /s (cst)                                                                                                      |
| Medium temperature  | depending on the sealing material and Solenoid coil                                                                                  |
| Ambient temperature | -20...+50°C, higher ambient temperatures on request                                                                                  |
| Mounting type       | Installation in rigid piping system or via mounting thread                                                                           |
| Mounting position   | any                                                                                                                                  |
| Switching time      | depending on operating pressure and medium                                                                                           |

### Electrical data:

|                                 |                                                                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil type                       | Type C0A1, Connector width 32mm<br>Type C0A2, Connector width 32mm                                                                                                                  |
| Electrical connection           | connector according to EN175301-803 Form A (see separate data sheet)                                                                                                                |
| Voltage type                    | AC and DC voltage                                                                                                                                                                   |
| Standard voltage                | 230V/50Hz, 24V/50Hz, 24VDC                                                                                                                                                          |
| Special voltages                | 12...380V/50Hz or 60Hz, 12...220VDC                                                                                                                                                 |
| Permissible voltage fluctuation | ±10%                                                                                                                                                                                |
| Power consumption               | see table "Power consumption of the solenoid coils"                                                                                                                                 |
| 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)                                                                 |
| Special version                 | Coil for humid environment                                                                                                                                                          |
| Application note                | When ordering, please specify voltage and type of current. We always recommend installing a strainer upstream to prevent malfunctions in the event of contamination of the medium.. |



## Type code

| SL188 - 12 - V - A1 S 03 - 01 |                                        |       |  |  |  |  |  |  |  |  |    |
|-------------------------------|----------------------------------------|-------|--|--|--|--|--|--|--|--|----|
| Type                          | Function NC - closed when de-energized | SL188 |  |  |  |  |  |  |  |  |    |
|                               |                                        |       |  |  |  |  |  |  |  |  |    |
| Connection                    | G3/8"                                  | 38    |  |  |  |  |  |  |  |  |    |
|                               | G1/2"                                  | 12    |  |  |  |  |  |  |  |  |    |
|                               |                                        |       |  |  |  |  |  |  |  |  |    |
| Seal                          | Standard seal NBR (N) - Leave blank    |       |  |  |  |  |  |  |  |  |    |
|                               | EPDM                                   | E     |  |  |  |  |  |  |  |  |    |
|                               | FKM                                    | V     |  |  |  |  |  |  |  |  |    |
|                               |                                        |       |  |  |  |  |  |  |  |  |    |
| Coil                          | without coil - Leave blank             |       |  |  |  |  |  |  |  |  |    |
|                               | C0A1                                   | A1    |  |  |  |  |  |  |  |  |    |
|                               | C0A2                                   | A2    |  |  |  |  |  |  |  |  |    |
| Device connector              | without device connector - Leave blank |       |  |  |  |  |  |  |  |  |    |
|                               | Standard                               | S     |  |  |  |  |  |  |  |  |    |
|                               | with integrated yellow LED and VDR     | L     |  |  |  |  |  |  |  |  |    |
|                               | with moulded PVC cable (2 m)           | M     |  |  |  |  |  |  |  |  |    |
| Voltage                       | 24VDC                                  | 03    |  |  |  |  |  |  |  |  |    |
|                               | 24V/50Hz                               | 18    |  |  |  |  |  |  |  |  |    |
|                               | 230V/50Hz                              | 21    |  |  |  |  |  |  |  |  |    |
|                               |                                        |       |  |  |  |  |  |  |  |  |    |
| Special version               | described in the item text             |       |  |  |  |  |  |  |  |  | 01 |

## Possible applications of the individual sealing materials

| Material | Medium temperature | Application examples                  |
|----------|--------------------|---------------------------------------|
| NBR      | -10...80°C         | Air, Water, neutral gases and liquids |
| EPDM     | -10...130°C        | Hot water, Steam, Oxygen              |
| FKM      | -10...120°C        | Oils, Gasoline, Diesel                |

## Solenoid coils

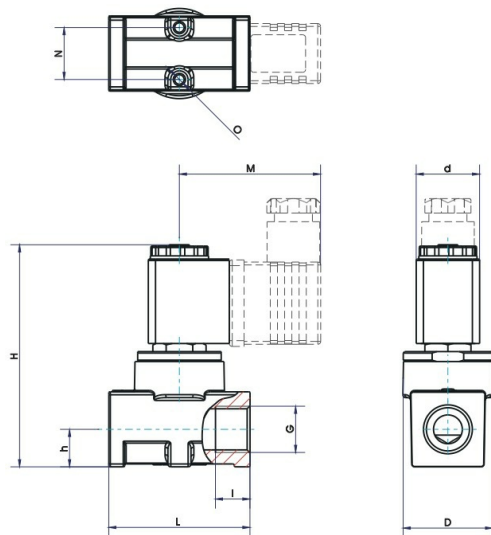
| Type | Degree of protection | Insert                              | Approvals |
|------|----------------------|-------------------------------------|-----------|
| C0A1 | IP65                 | Medium temperature up to max. 120°C | CE        |
| C0A2 | IP65                 | Medium temperature up to max. 140°C | CE        |

## Power consumption of the solenoid coils

|                                                  | Coil C0A1 | Coil C0A2 |
|--------------------------------------------------|-----------|-----------|
| Power consumption in VA (AC)                     | 32        | 70        |
| Holding power in VA (AC)                         | 14        | 32        |
| Holding power in W (DC) at operating temperature | 12        | 27        |



# Dimensions



| Connection<br>G | Nominal<br>size<br>DN[mm] | Pressure<br>range<br>[bar]<br>AC | Pressure<br>range<br>[bar]<br>DC | d  | D    | h  | H  | I  | L  | M  | N  | O  | Kv value<br>[m <sup>3</sup> /h<br>Water] | Weight<br>[approx.<br>kg] | Coil | Type     |
|-----------------|---------------------------|----------------------------------|----------------------------------|----|------|----|----|----|----|----|----|----|------------------------------------------|---------------------------|------|----------|
| G3/8"           | 10                        | 0,02...12                        | 0,02...10                        | 30 | 32,5 | 13 | 94 | 12 | 49 | 52 | 18 | M4 | 1,7                                      | 0,41                      | C0A. | SL188-38 |
| G1/2"           | 10                        | 0,02...12                        | 0,02...10                        | 30 | 32,5 | 13 | 94 | 12 | 49 | 52 | 18 | M4 | 1,7                                      | 0,41                      | C0A. | SL188-12 |

Illustrations non-binding  
 Design, dimensional and material changes reserved

Armatures / Solenoid valves for liquids and gases / Other materiales - A01 / 2/2-way solenoid valve Series SL188