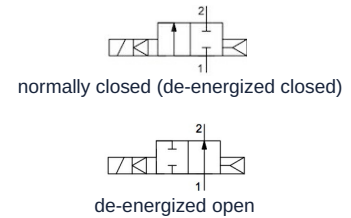


## 2/2-Way solenoid valve - pilot-operated Series SL012, SL013



|                     |                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type         | 2/2-way solenoid valve with piston seal, pilot-operated<br>SL012 normally closed (de-energized closed) / SL013 de-energized open                   |
| Connection          | G1/2"...G1" according to ISO228/1                                                                                                                  |
| Materials           | Body Brass, Seat Stainless steel, Internal parts Stainless steel similar 1.4101, Piston guide PTFE-coated, Piston seal PTFE glass fiber reinforced |
| Mounting type       | Installation in rigid piping system                                                                                                                |
| Mounting position   | any                                                                                                                                                |
| Application range   | Steam, Hot water, other media on request                                                                                                           |
| Switching time      | depending on operating pressure, medium and nominal diameter                                                                                       |
| Medium temperature  | -40...+180°C                                                                                                                                       |
| Ambient temperature | see table "Solenoid coils"                                                                                                                         |

### Electrical data:

|                                 |                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil type                       | Type BDV, Connector width 32mm (Coil for humid environment)<br>Type GDH, Connector width 32mm Coil for humid environment)                                                         |
| Electrical connection           | connector according to EN175301-803-Form A (see separate data sheet)                                                                                                              |
| Voltage type                    | AC and DC voltage                                                                                                                                                                 |
| Standard voltage                | 230V/50Hz, 24V/50-60Hz, 24VDC                                                                                                                                                     |
| Special voltages                | see table "Solenoid coils"                                                                                                                                                        |
| Permissible voltage fluctuation | AC +10%/-15% DC +10%/-5%                                                                                                                                                          |
| 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)                                                               |
| Application note                | When ordering please specify voltage and type of current. We recommend always installing a strainer upstream to prevent malfunctions in the event of contamination of the medium. |



## Type code

|            |                                                         |             |  |  |  |  |
|------------|---------------------------------------------------------|-------------|--|--|--|--|
|            | SL012-<br>SL013-                                        | 12 - C S 02 |  |  |  |  |
|            | G1/2"                                                   | 12          |  |  |  |  |
|            | G3/4"                                                   | 34          |  |  |  |  |
| Connection | G1"                                                     | 10          |  |  |  |  |
|            |                                                         |             |  |  |  |  |
|            | BDV Coil for humid environment - Approval CE-CSA-UL-VDE | C           |  |  |  |  |
| Coil       | GDH Coil for humid environment - Approval CE            | D           |  |  |  |  |
|            | Standard                                                | S           |  |  |  |  |
| connector  | with built-in yellow LED and VDR                        | L           |  |  |  |  |
|            | 230V/50Hz-240V/60Hz                                     | 02          |  |  |  |  |
|            | 24VDC                                                   | 03          |  |  |  |  |
|            | 24V/50-60Hz                                             | 04          |  |  |  |  |
|            | 12VDC                                                   | 05          |  |  |  |  |
|            | 48VDC                                                   | 06          |  |  |  |  |
|            | 220VDC                                                  | 08          |  |  |  |  |
| Voltage    | 110V/50Hz-120V/60Hz                                     | 14          |  |  |  |  |

## Possible applications of the individual sealing materials

| Material | Medium temperature | Application examples |
|----------|--------------------|----------------------|
| PTFE     | -40...+180°C       | Steam, Hot water     |

## Solenoid coils

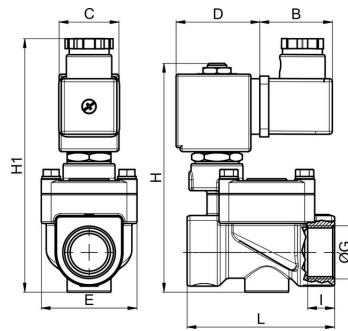
| Type | Degree of protection | Insert                                             | Ambient temperature | Approvals     |
|------|----------------------|----------------------------------------------------|---------------------|---------------|
| BDV  | IP65                 | Medium temperature up to max. 180°C, high humidity | -20...+60°C         | CE-CSA-UL-VDE |
| GDH  | IP65                 | Medium temperature up to max. 180°C, high humidity | -20...+40°C         | CE            |

## Power consumption of the solenoid coils

| Voltage                | Tightening torque<br>(Alternating current) VA | Holding force<br>(Alternating current) VA | Holding force<br>(Direct current) operating temperature W | Type       |
|------------------------|-----------------------------------------------|-------------------------------------------|-----------------------------------------------------------|------------|
| 230V/50Hz<br>240V/60Hz | 25                                            | 16                                        | -                                                         | BDV08230AY |
| 24V/50-60Hz            | 25                                            | 17                                        | -                                                         | BDV08024DY |
| 24VDC                  | -                                             | -                                         | 11                                                        | BDV08024CY |
| 110V/50Hz<br>120V/60Hz | 25                                            | 15                                        | -                                                         | BDV08110AY |
| 12VDC                  | -                                             | -                                         | 14                                                        | GDH14012CS |
| 48VDC                  | -                                             | -                                         | 14                                                        | GDH14048CS |
| 220VDC                 | -                                             | -                                         | 14                                                        | GDH14220CS |



# Dimensions



| Connection<br>G | Nominal size<br>DN[mm] | Pressure range<br>[bar] | B  | C  | D  | E  | H   | H1  | I  | L  | Kv value<br>[m³/h Water] | Weight<br>[approx. kg] | Coil | Type     |
|-----------------|------------------------|-------------------------|----|----|----|----|-----|-----|----|----|--------------------------|------------------------|------|----------|
| G1/2"           | 13                     | 0,9 - 10                | 36 | 30 | 42 | 40 | 107 | 121 | 11 | 65 | 3                        | 1,1                    | BDV  | SL012-12 |
| G1/2"           | 13                     | 0,9 - 10                | 36 | 52 | 55 | 40 | 107 | 121 | 11 | 65 | 3                        | 1,1                    | GD.  | SL012-12 |
| G3/4"           | 19                     | 0,9 - 10                | 36 | 30 | 42 | 48 | 120 | 134 | 13 | 74 | 5,4                      | 1,4                    | BDV  | SL012-34 |
| G3/4"           | 19                     | 0,9 - 10                | 36 | 52 | 55 | 48 | 120 | 134 | 13 | 74 | 5,4                      | 1,4                    | GD.  | SL012-34 |
| G1"             | 25                     | 0,9 - 10                | 36 | 30 | 42 | 62 | 130 | 144 | 16 | 93 | 9,6                      | 1,9                    | BDV  | SL012-10 |
| G1"             | 25                     | 0,9 - 10                | 36 | 52 | 55 | 62 | 130 | 144 | 16 | 93 | 9,6                      | 1,9                    | GD.  | SL012-10 |

Illustrations non-binding  
Design, dimensional and material changes reserved

Armatures / Solenoid valves for liquids and gases / 2/2-way solenoid valves - pilot operated / 2/2-way solenoid valve Series SL012

