

# Slam Shut off Valve

## SL-D Serie



### Main Features

Direct-acting SL-D Serie Slam Shut Valves According to 2014/68/EU Directive and EN 14382 standard.

- Rugged construction for durability
- Full seal
- Easy maintenance
- Minimum and/or maximum pressure slam-shut device
- Remote control option
- With electric position indicator SSV closed by an inductive proximity switch
- Bypass system for to activate ssv easily

### Technical Features

|  |   |
|--|---|
| Maximum allowable pressure –PS         | 1 or 6 bar  |
| Ambient temperature –TS <sup>(1)</sup> | -15 °C to +60 °C  |
| Connection                             | Threaded conn. according to EN 10226 or NPT ASME<br>1/2"   3/4"   1"   1 1/4"   1 1/2"   2" |
| Function                               | OPSO or/and UPSO  |
| Closing time                           | <1 second   |
| Use                                    | Natural gas, GPL or Non aggressive gases,<br>Pset up to 150mbar AG10                        |
| Accuracy class –AG                     | Pset 150-350 mbar AG 5  |



<sup>(1)</sup> Low temperature version -40°C: available on request

### Metarials

|                      |                               |
|----------------------|-------------------------------|
| Body                 | Aluminium                     |
| Covers               | Threaded Connection Aluminium |
| Internal Parts       | Stainless Steel and Brass     |
| Seals                | NBR                           |
| Pressure Test Points | Brass                         |

## Slum Shut-Off Valve, SL-D Serie

### Standards and certificates

#### Applied directives:

Pressure Equipment Directive –PED

(EU) EU/2014/68



Compliance with the regulations of the applied directives is verified by the adherence to the following standards / regulations:

• UkrSepro Technical Regulations for Pressure Equipment UA.TR.012C.0368



• EAC Conformity mark TP TC004/2011 TP TC020/2011



The relevant valid edition of the standards can be found in the declaration of conformity!

### Use

#### General Gases :

Natural gas, town gas, propane, butane, air, nitrogen or all non-corrosive gases

Suitable for use with previously filtered gaseous fluids, it is mainly used for medium and low pressure natural gas systems.

#### Hydrogen Ready :

Suitability of natural gas-hydrogen mixtures or pure hydrogen.

When using the SL-D series, a manufacturer's declaration and notified body reports can be provided on request.

#### Biogas or Biomethane Version :

Suitable for biogases and recycling gases

– up to maximum 1% by volume H<sub>2</sub>S, dry

– up to maximum 1% by volume NH<sub>3</sub>,

dry No non-ferrous metals (except in very small quantities found in the plastic components)

Biogas version of SL-D Series are also designed for slightly aggressive, dry gases.

Gases according such as biogases, landfill gases, sewage gases, other recycled gases, process gases, and air. The chemical composition and aggressiveness of each biogas or recycled gas is different, not constant, and dependent on several factors.

The aggressiveness of the gas notably increases:

- as the hydrogen sulfide content H<sub>2</sub>S increases

- with the moisture content of the gas, condensation is not permitted inside the regulator

In consultation with Gastech, users must decide whether the materials used for the SL-D Series are suitable for the intended types of recycling gas. These gases can vary in terms of both their composition and the respective concentration of the components.

As a result, it is not possible to make any warranties or definitive statements regarding service life. An assessment should be carried out to determine the suitability of the gas used.



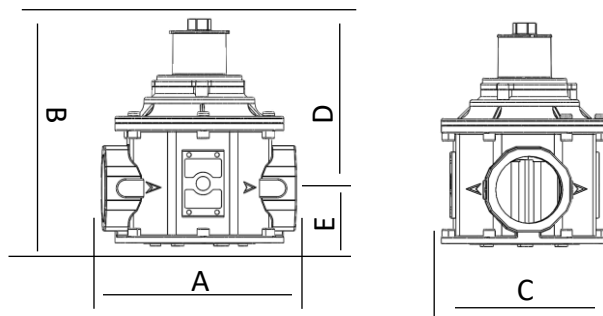
For safety reasons, we strongly recommend

- a visual inspection of the SL-D Serie regulator at intervals of 3 to 6 months

- Function and leakage tests

**Slum Shut-Off Valve, SL-D Serie**





**Dimensions and Weights**



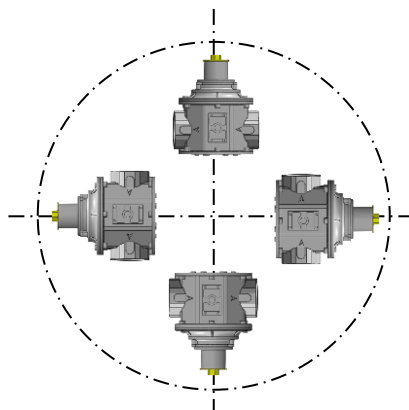
| DN         | A   | B   | C   | D   | E  |
|------------|-----|-----|-----|-----|----|
| Rp. 1/2"   | 120 | 145 | 92  | 100 | 45 |
| Rp. 3/4"   | 120 | 145 | 92  | 100 | 45 |
| Rp. 1"     | 120 | 145 | 92  | 100 | 45 |
| Rp. 1 1/4" | 160 | 190 | 140 | 135 | 45 |
| Rp. 1 1/2" | 160 | 190 | 140 | 135 | 45 |
| Rp. 2"     | 160 | 190 | 140 | 135 | 45 |

**Shut Off Range and Setting Springs**

Over- Shut off setting ranges for the SL-D all diameters are shown in the tables below

| Pressure Range (mbar) | Actuator (ø) | Color  | Diameter (mm) | Order Code |
|-----------------------|--------------|--|---------------|------------|
| 20 – 50               | 120 BP-MP    | Red     | 2.2           | 2.16.9007  |
| 30 – 80               | 120 BP-MP    | Blue    | 2.5           | 2.16.9008  |
| 50 – 200              | 120 BP-MP    | Yellow  | 2.8           | 2.16.9009  |
| 190 – 400             | 120 BP-MP    | Black   | 3.2           | 2.16.9010  |

**Mounting position**



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**Capacity Tables**

| Diameter<br>DN | ΔP Differential Pressure (mbar) |    |    |     |     |     |     |     |     |     |     |
|----------------|---------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
|                | 0.5                             | 1  | 2  | 3   | 5   | 10  | 20  | 30  | 50  | 100 | 200 |
| Rp. 1/2"       | 7                               | 9  | 14 | 16  | 20  | 28  | 30  | 50  | 62  | 78  | 130 |
| Rp. 3/4"       | 12                              | 17 | 22 | 28  | 35  | 50  | 70  | 84  | 105 | 160 | 210 |
| Rp. 1"         | 17                              | 22 | 30 | 38  | 49  | 68  | 95  | 120 | 160 | 205 | 290 |
| Rp. 1 1/4"     | 27                              | 34 | 48 | 59  | 76  | 107 | 160 | 185 | 240 | 330 | 540 |
| Rp. 1 1/2"     | 35                              | 60 | 88 | 105 | 140 | 195 | 280 | 320 | 420 | 500 | 840 |
| Rp. 2"         | 48                              | 67 | 95 | 120 | 155 | 206 | 300 | 360 | 460 | 560 | 900 |

the flow is in (n)m3/h natural gas with a density 0.61 and temperature 15°C

**Correction factor for non-natural gas applications**

The flow rates are indicated for a 0.6 specific gravity gas. To determine the volumetric flow rate for gases other than natural gas, multiply or calculate the values in the capacity tables using the sizing equations with a correction factor. The table below lists correction factors for some common gases:

| Gas Type        | Density ratio to air | Conversion factor |
|-----------------|----------------------|-------------------|
| Air             | 1.00                 | 0.77              |
| Butane          | 2.00                 | 0.55              |
| Propane         | 1.52                 | 0,63              |
| Propane+Air Mix | 1.2                  | 0,71              |
| Hydrogen        | 0.07                 | 2.94              |
| Nitrogen        | 0.97                 | 0.79              |
| Carbondioxide   | 1.52                 | 0.63              |

Use the following formula to calculate the correction factor for gases not listed above. In the formula, d is the specific gravity of the gas.

$$\text{Conversion factor} = \sqrt{\frac{0.6}{d}}$$






Stm3 /h /reference conditions 15 °C, 1 barg


Stm3 /h x 0.94795 = Nm3 /h      Nm3 /h reference conditions 0 °C, 1 barg

**Color of Products**

**Standard Colors Natural Aluminium**

**Optional Colors**

| Part      | RAL Code | Color   |
|-----------|----------|---|
| All Parts | 1021     |  |
| All Parts | 3000     |  |
| All Parts | 9005     |  |
| All Parts | 6011     |  |
| All Parts | 5010     |  |

 delivery times and price may vary in optional color options.

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**NOTES**

For more information, contact your local sales representative or agency.



info@gastech.com.tr



www.gastech.com.tr



+90 286 501 55 11



gastech\_naturalgas



www.linkedin.com/in/gastech-naturalgas-577b931a8/

**GASTECH SANAYI VE TICARET ANONIM SİRKETİ**  
Çanakkale Organize Sanayi Bölgesi, 1. Cadde No:28 17100  
Merkez-Çanakkale-TURKEY  
Chamber of Commerce Çanakkale, 9492  
www.gastech.com.tr info@gastech.com.tr

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