

## 2/2-Veis magnetventil - pilotstyrt Type SL223

CE | UK  
CA | O<sub>2</sub> oxygene applications



### DESCRIPTION

Valve type 63 is a 2/2-way pilot operated piston solenoid valve for high pressure applications with gases and liquids. A minimum pressure differential is required for operation. The main sealing is out of PTFE.

### CONSTRUCTION

|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| Body material  | stainless steel                                                           |
| Internal parts | stainless steel                                                           |
| Sealing        | PTFE + FPM, optional PTFE + EPDM<br>installation into fixed piping system |
| Voltages       | 24 V DC, 24 V 50Hz, 230 V 50Hz                                            |
| Connections    | G1/2 - G2                                                                 |

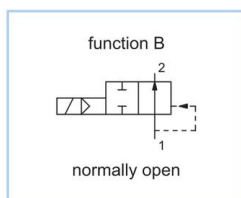
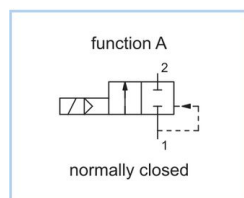
### ON REQUEST

Valve for oxygene applications  
Non-standard coil voltages  
Higher ambient temperature range  
Non-standard equipment  
Manual override

### SWITCHING PRESSURE

| Ports                      | Normally closed<br>in bar | Normally open<br>in bar |
|----------------------------|---------------------------|-------------------------|
| G1/2                       | 2 - 100                   | 2 - 65                  |
| G3/4                       | 2 - 100                   | 2 - 65                  |
| G1                         | 2 - 100                   | 2 - 65                  |
| G1 1/4                     | 2 - 85                    | 2 - 50                  |
| G1 1/2                     | 2 - 80                    | 2 - 50                  |
| G2                         | 2 - 80                    | 2 - 50                  |
| See details on the website |                           |                         |

### VARIANTS



## DETAILED INFORMATION

### General

|                      |                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| type of construction | 2/2-way poppet valve, with piston, normally closed NC or normally open NO, coil 360° rotatable                              |
| operation            | electrically, on request: manual override                                                                                   |
| ports                | G1/2 - G2                                                                                                                   |
| ambient temperature  | -20°C to +50°C, higher acceptable ambient temperature range on request                                                      |
| fluid temperature    | dependent on sealing material and coil                                                                                      |
| viscosity            | max. 21 mm²/s (cst)                                                                                                         |
| material             | body: AISI 304<br>plunger tube: AISI 303<br>internal parts: stainless steel<br>sealing: PTFE + FPM<br>optional: PTFE + EPDM |
| mounting             | installation into fixed piping system                                                                                       |
| installation         | in any position, preferable vertically fixed solenoid coil                                                                  |
| unit of supply       | without connector                                                                                                           |

### Electrical

|                                 |                                                                            |
|---------------------------------|----------------------------------------------------------------------------|
| voltage                         | DC voltage or AC voltage                                                   |
| standard voltages               | 24 V DC, 24 V 50Hz, 230 V 50Hz                                             |
| non-standard voltage on request | 6 V - 200 V DC, 12 V - 240 V 50Hz or 60Hz                                  |
| acceptable voltage tolerance    | ±10%                                                                       |
| power consumption               | see specifications at solenoid coils                                       |
| coil temperature classification | temperature class F (155°C), winding & coil E3 temperature class H (180°C) |
| duty cycle                      | 100%, continuous operation                                                 |
| protection class                | IP65 according DIN EN 60529 (DIN 40050) with correctly mounted connector   |

### Pneumatic – Hydraulic

|                                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| fluid                             | all liquids and gases, non-aggressive to the used material  |
| max. valve body pressure          | G1/2 - G1: PN 100, >G1: PN 80                               |
| response time                     | depending on operating pressure and fluid                   |
| non-standard equipment on request | coil type with cable, coils for temperature class H (180°C) |



## Coil power consumption at 20°C

| coil type | inrush power<br>50Hz in VA | rated power<br>50Hz in VA | power<br>DC in W |
|-----------|----------------------------|---------------------------|------------------|
| E5AA      | -                          | -                         | 8                |
| E4AA      | -                          | -                         | 10               |
| E1AA      | 32                         | 14                        | 12               |
| E2AA      | 42                         | 19                        | 17               |
| E3AE      | 70                         | 32                        | 27               |

| Sealing material | Code | Fluid temperature | Applicable for                     |
|------------------|------|-------------------|------------------------------------|
| PTFE             | T    | -10°C to 150°C    | acids and alkaline solution, steam |

## NORMALLY CLOSED VALVES

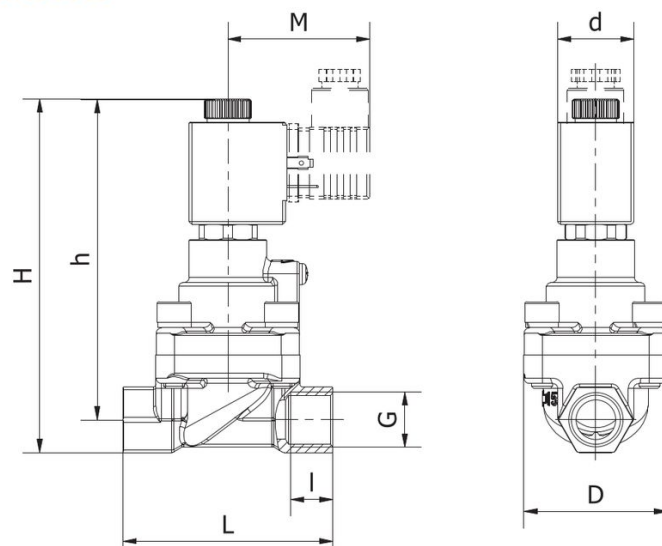
| NW<br>DN<br>in<br>mm | ports  | maximum differential pressure in bar |        |           |        |           |        |           |         |         |         | kv-<br>value<br>in<br>m³/h |
|----------------------|--------|--------------------------------------|--------|-----------|--------|-----------|--------|-----------|---------|---------|---------|----------------------------|
|                      |        | coil E5AA                            |        | coil E4AA |        | coil E1AA |        | coil E2AA |         | E3AE    |         |                            |
|                      |        | 50Hz                                 | DC     | 50Hz      | DC     | 50Hz      | DC     | 50Hz      | DC      | 50Hz    | DC      |                            |
| 15                   | G1/2   | -                                    | 2 - 25 | -         | 2 - 35 | 2 - 40    | 2 - 40 | 2 - 100   | 2 - 100 | 2 - 100 | 2 - 100 | 3,6                        |
| 20                   | G3/4   | -                                    | 2 - 25 | -         | 2 - 35 | 2 - 40    | 2 - 40 | 2 - 100   | 2 - 100 | 2 - 100 | 2 - 100 | 5,7                        |
| 25                   | G1     | -                                    | 2 - 18 | -         | 2 - 25 | 2 - 40    | 2 - 30 | 2 - 100   | 2 - 70  | 2 - 100 | 2 - 85  | 8,7                        |
| 32                   | G1 1/4 | -                                    | 2 - 18 | -         | 2 - 25 | 2 - 40    | 2 - 30 | 2 - 80    | 2 - 70  | 2 - 80  | 2 - 85  | 12,9                       |
| 40                   | G1 1/2 | -                                    | 2 - 18 | -         | 2 - 25 | 2 - 40    | 2 - 25 | 2 - 80    | 2 - 65  | 2 - 80  | 2 - 80  | 19,2                       |
| 50                   | G2     | -                                    | 2 - 18 | -         | 2 - 25 | 2 - 40    | 2 - 25 | 2 - 80    | 2 - 65  | 2 - 80  | 2 - 80  | 34,7                       |

## NORMALLY OPEN VALVES

| NW DN<br>in mm | ports  | maximum differential pressure in bar |        | kv-value<br>in m³/h |
|----------------|--------|--------------------------------------|--------|---------------------|
|                |        | coil E3AE                            |        |                     |
|                |        | 50Hz                                 | DC     |                     |
| 15             | G1/2   | 2 - 65                               | 2 - 65 | 3,6                 |
| 20             | G3/4   | 2 - 65                               | 2 - 65 | 5,7                 |
| 25             | G1     | 2 - 65                               | 2 - 65 | 8,7                 |
| 32             | G1 1/4 | 2 - 50                               | 2 - 50 | 12,9                |
| 40             | G1 1/2 | 2 - 50                               | 2 - 50 | 19,2                |
| 50             | G2     | 2 - 50                               | 2 - 50 | 34,7                |



## DIMENSIONS



Dimension table for normally closed

| G      | M    |      | d    |      | D   | h   | H   | I  | L   | approx.<br>weight in g |
|--------|------|------|------|------|-----|-----|-----|----|-----|------------------------|
|        | E1AA | E3AE | E1AA | E3AE |     |     |     |    |     |                        |
| G1/2   | 53   | 54   | 30   | 36   | 55  | 124 | 138 | 16 | 80  | 1 170                  |
| G3/4   | 53   | 54   | 30   | 36   | 60  | 132 | 150 | 16 | 90  | 1 530                  |
| G1     | 53   | 54   | 30   | 36   | 68  | 137 | 158 | 16 | 100 | 1 970                  |
| G1 1/4 | 53   | 54   | 30   | 36   | 80  | 142 | 171 | 20 | 130 | 2 400                  |
| G1 1/2 | 53   | 54   | 30   | 36   | 90  | 153 | 182 | 20 | 130 | 3 500                  |
| G2     | 53   | 54   | 30   | 36   | 108 | 164 | 199 | 20 | 149 | 5 100                  |

Dimension table for normally open

| G      | M    |      | d    |      | D   | h   | H   | I  | L   | approx.<br>weight in g |
|--------|------|------|------|------|-----|-----|-----|----|-----|------------------------|
|        | E1AA | E3AE | E1AA | E3AE |     |     |     |    |     |                        |
| G1/2   | 53   | 54   | 30   | 36   | 55  | 130 | 144 | 16 | 80  | 1 190                  |
| G3/4   | 53   | 54   | 30   | 36   | 60  | 138 | 156 | 16 | 90  | 1 550                  |
| G1     | 53   | 54   | 30   | 36   | 68  | 143 | 165 | 16 | 100 | 1 990                  |
| G1 1/4 | 53   | 54   | 30   | 36   | 80  | 148 | 178 | 20 | 130 | 2 400                  |
| G1 1/2 | 53   | 54   | 30   | 36   | 90  | 159 | 189 | 20 | 130 | 3 500                  |
| G2     | 53   | 54   | 30   | 36   | 108 | 170 | 205 | 20 | 149 | 5 100                  |

Illustrasjoner er ikke bindende

Med forbehold om konstruksjons-, mål- og materialendringer

Armaturer / Magnetventiler for væsker og gasser / Annet sortiment - A01 / Annet sortiment - A01 / [SL223-12-TE-A203] SL223-12-TE-A203

Versjon 4

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