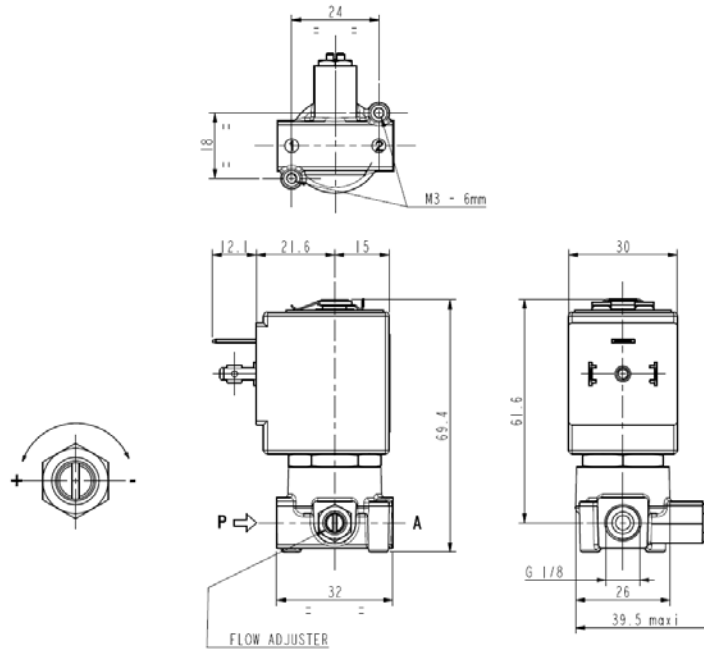




**SOLENOID VALVE**  
**2/2- NC (Normally closed)**  
**Direct acting**  
**G 1/8**

**L120V03**



► **GENERAL FEATURES**

Direct acting solenoid valve, small body size, fitted with metering device adjusting flow between 10% and 100%: multi-turns adjustment.  
Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact).

► **TECHNICAL FEATURES**

Maximum allowable pressure (PS) 40 bar  
Opening time ~ 20ms  
Closing time ~ 20ms  
Fluid temperature 0°C +130°C  
Max viscosity 5°E (~37 cStokes or mm<sup>2</sup>/s)

► **MATERIALS IN CONTACT WITH FLUID**

Body Chemically nickel plated brass (Ni-P)  
Sealing FPM  
Internal components Stainless steel  
Seat Chemically nickel plated brass (Ni-P)  
Core tube Stainless steel  
Shading coil Copper

► **COIL**

Approval UL (class F) – for UL cl. H: ZA34  
Continuous duty ED 100%  
Encapsulation material PPS (Polyphenylsulfure) fiberglass reinforced  
Insulation class F (155°C) on request class H (180°C)  
Ambient temperature -10°C +50°C  
Electric connection DIN 46340 - 3 poles plug-connectors (EN175301-803)  
Protection degree IP67 (EN 60529) with plug-connector  
Voltages DC 12-24V (+10% -5%)  
AC 24V/50Hz - 110V/50Hz (120V/60Hz) - 230V/50Hz (+10% -15%)  
(Other voltages and frequencies on request)

| Port size<br>ISO 228 | Orifice<br>size<br>(mm) | Differential pressure (bar) |        |    |    |         |        | Kv<br>(m <sup>3</sup> /h) | Series and type |      | Power absorption |   |           | Sealings | Notes | Weight<br>(kg) |  |
|----------------------|-------------------------|-----------------------------|--------|----|----|---------|--------|---------------------------|-----------------|------|------------------|---|-----------|----------|-------|----------------|--|
|                      |                         | Δp<br>min                   | Δp max |    |    |         |        |                           | Valve           | Coil | AC (VA)          |   | DC<br>(W) |          |       |                |  |
|                      |                         |                             | Gases  |    |    | Liquids |        |                           |                 |      |                  |   |           |          |       |                |  |
|                      |                         |                             | AC     | DC | AC | DC      |        |                           |                 |      |                  |   |           |          |       |                |  |
|                      |                         |                             |        |    |    |         | Inrush |                           |                 |      | Holding          |   |           |          |       |                |  |
| G 1/8                | 1,6                     | 0                           | 30     | 30 | 30 | 30      | 0,045  | L120V03                   | ZA10A           | 23   | 14               | 9 | FPM       | -        | 0,260 |                |  |

► **NOTES**

- Sealings: FPM=Fluoro-carbon elastomer
- On request special coil ZA10X, class "F", with UL homologated windings – see overleaf.
- IMQ CSV approval, see ZA10 datasheet for further details
- UL approved coil (E153691)

1503/1605

# L120v03

## ► COIL FOR SPECIAL VOLTAGES ZA10X

|                        |                                               |
|------------------------|-----------------------------------------------|
| Approval               | UL (class F); see voltages.                   |
| Continuous duty        | ED 100%                                       |
| Encapsulation material | PPS (Polyphenylsulfure) fiberglass reinforced |
| Coil insulation class  | F (155°C)                                     |
| Ambient temperature    | -10°C +50°C                                   |

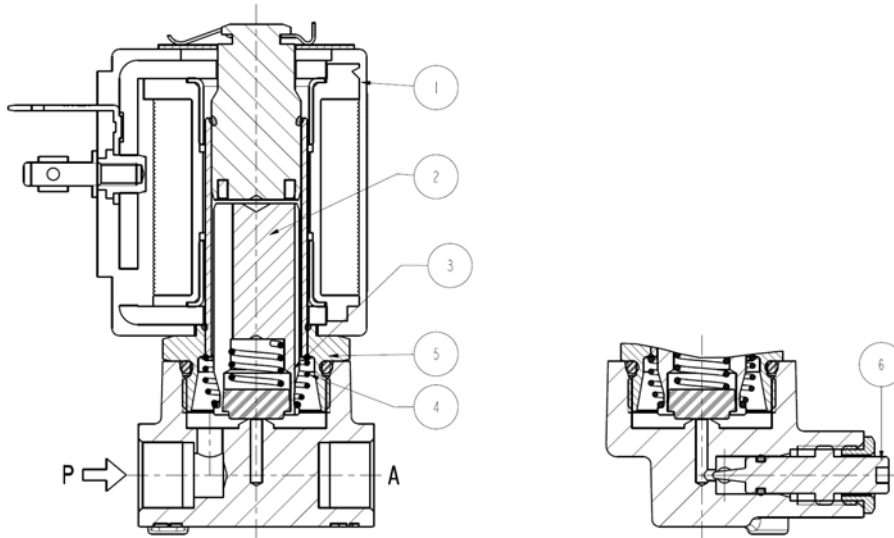
|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Electric connections | DIN 46340 - 3 poles connectors (EN175301-803)                                                                                                      |
| Protection degree    | IP 67 (EN 60529) with plug connector                                                                                                               |
| Voltages             | AC<br>24V/50-60Hz (UL) ▪ 100V/50-60Hz ▪ 115-120V/60Hz ▪<br>200V/50-60Hz ▪ 220-230V/50Hz - 208-240V/60Hz (UL) ▪<br>220-240V/50Hz (UL) ▪ (+10% -15%) |

| Port size<br>ISO 228 | Orifice size<br>(mm) | Differential pressure (bar) |        |    |         |    | Kv<br>(m³/h) | Series and type |       | Power absorption |         |           | Sealings | Notes | Weight<br>(kg) |
|----------------------|----------------------|-----------------------------|--------|----|---------|----|--------------|-----------------|-------|------------------|---------|-----------|----------|-------|----------------|
|                      |                      | Δp min                      | Δp max |    |         |    |              |                 |       |                  |         |           |          |       |                |
|                      |                      |                             | Gases  |    | Liquids |    |              | Valve           | Coil  | AC (VA)          |         | DC<br>(W) |          |       |                |
|                      |                      |                             | AC     | DC | AC      | DC |              |                 |       | Inrush           | Holding |           |          |       |                |
| G 1/8                | 1,6                  | 0                           | 30     | -  | 30      | -  | 0,045        | L120V03         | ZA10X | 23               | 14      | -         | FPM      | -     | 0,270          |

## ► NOTES

- Sealings : FPM = Fluoro-carbon elastomer

## ► SPARE PARTS



## Kit description

|                        |                |
|------------------------|----------------|
| Core kit               | G3022803       |
| Core return spring kit | G3022401       |
| OR guide assembly kit  | GU2424000017   |
| Flow adjuster kit      | G3046201       |
| Guide assembly kit     | G31486         |
| Coil                   | ZA10A<br>ZA10X |

## Kit P.N.

## Consisting of:

|                                                                   |
|-------------------------------------------------------------------|
| Core (with core return spring) pos. 2<br>OR guide assembly pos. 4 |
| N.10 core return spring pos. 3                                    |
| N.10 OR guide assembly pos. 4                                     |
| Flow adjuster pos. 6                                              |
| Guide assembly pos. 5<br>Coil clip                                |
| Coil pos.1                                                        |

## ► MOUNTING

Solenoid valve can be mounted in any position; vertical with coil upwards preferred.

THE VALIDITY OF REPORTED DATA IS REFERRED TO THE DATE OF ISSUE. POSSIBLE UPDATES ARE AVAILABLE ON REQUEST.