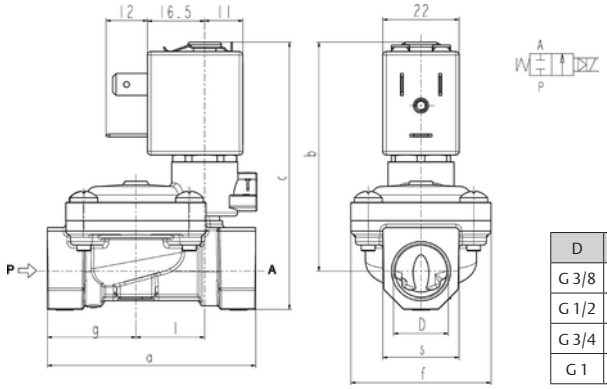
# ASCO™ SOLENOID VALVE

2/2 NORMALLY CLOSED – PILOT OPERATED - G 3/8 ÷ G 1

SERIES
**L182**







| D | a | b | c | f | g | l | s |
|---|---|---|---|---|---|---|---|
| G 3/8 | 60 | 66 | 77 | 40 | 25,5 | 20 | 22 |
| G 1/2 | 66 | 68 | 82 | 40 | 29 | 20 | 27 |
| G 3/4 | 79 | 72,5 | 89 | 50 | 35,5 | 24,5 | 33 |
| G 1 | 105 | 85 | 106 | 71 | 46 | 28 | 42 |




## General Features

Diaphragm valve, pilot operated, having full orifice.
Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact).

| **Technical Features** | | | | |
|---|---|---|---|---|
| Maximum allowable pressure (PS) | 20 bar | | | |
| **Response times** | **3/8** | **1/2** | **3/4** | **1** |
| Opening time (ms) | 70 | 70 | 70 | 90 |
| Closing time (ms) | 670 | 600 | 500 | 420 |
| Fluid temperature | -10°C +90°C (NBR)<br>0°C +130°C (FPM)<br>-10°C +140°C (EPDM)* WRAS | | | |
| Max viscosity | 5°E (~37 cStokes or mm²/s) | | | |

* Maximum operating temperature 85°C in compliance with WRAS approval

| **Materials In Contact With Fluid** | |
|---|---|
| Body | Brass |
| Sealing | NBR or FPM or EPDM |
| Internal components | Brass and stainless steel |
| Seat | Brass |
| Core tube | Stainless steel |
| Shading coil | Copper |

| **Coil** | | **ZB10A** | **ZB12A*** | **ZB14A*** |
|---|---|---|---|---|
| Approval | | / | UL and CSA | UL and CSA |
| Encapsulation material | | PA fiberglass reinforced | PET fiberglass reinforced | PET fiberglass reinforced |
| Insulation class | | F (155°C) | F (155°C) | H (180°C) |
| Ambient temperature | | -10°C +60°C | -10°C +60°C | -10°C +75°C |
| Continuous duty | | ED 100% | | |
| Electric connection | | DIN 46340 - 3 poles plug connector | | |
| Protection degree | | IP 65 (EN 60529) with plug connector | IP 67 (EN 60529) with plug connector | IP 67 (EN 60529) with plug connector |
| Voltages | DC | 12-24V (+10% -5%) | | |
| | AC | 24V/50-60Hz - 115V/50Hz - 230V/50-60Hz (+10% -15%) | | |
| | | (Other voltages and frequencies on request) | | |

***On Request**

| **Coil** | | **/** | **ZB12Y** | **ZB14Y** |
|---|---|---|---|---|
| Approval | | / | UL | UL |
| Voltages | AC | 220-230V/50Hz 208-240V/60Hz (+10% -15%) | | |

| Port size ISO 228 | Orifice size (mm) | Differential pressure (bar) | | | | | Kv ($m^3/h$) | Series and type | | | Power absorption | | | | Sealings | Notes | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Δp min | Δp max | | | | | | | | AC (VA) | | | DC | | | |
| | | | Gases | | Liquids | | | Valve | Valve with manual override | Coil | Inrush | Holding | | | | | |
| | | | AC | DC | AC | DC | | | | | VA | VA | W | W | | | |
| 3/8 | 13,5 | 0,35 | 16 (12) | 16 (12) | 16 (12) | 16 (12) | 2,5 | **L182(*)01** | **L182(*)02** | **ZB10A ZB12A** | 12 | 6 | 4 | 5,5 | (*) = B (NBR) (*) = V (FPM) (*) = D (EPDM) | 1-3 | 0,32 |
| 1/2 | | | | | | | 3,8 | | | | | | | | | | 0,38 |
| 3/4 | 18 | | 12 (10) | 12 (10) | 12 (10) | 12 (10) | 5 | | | | | | | | | 2-3 | 0,52 |
| 1 | 24 | | | | | | 12 | | | | | | | | | | 1,08 |

## Notes

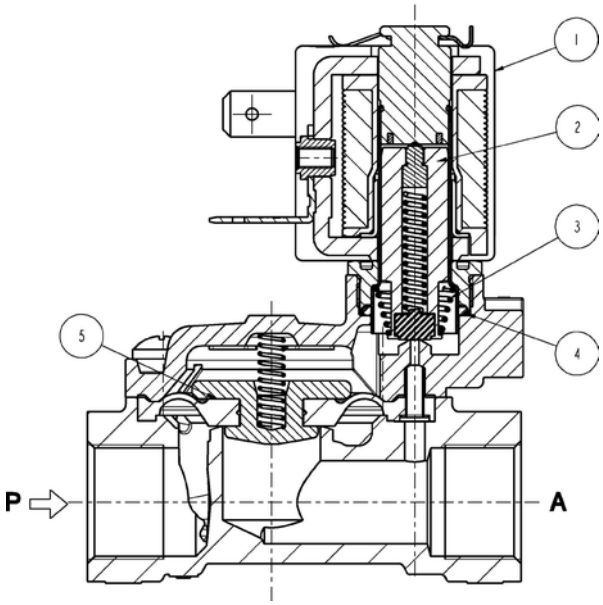
- Sealings: B(NBR)=Nitrile-butylene elastomer V(FPM)=Fluoro-carbon elastomer D(EPDM)=Ethylene-propylene elastomer (WRAS/KTW certified compound)
- Operation with gaseous media, at high pressure without any outlet restriction, can reduce the diaphragm life.
- On request coil in class H (ZB14A – see § "COIL" )
- The bracketed values of Δp max are related to valves with V(FPM) seals.

1 - Low power consumption coil on request (3,5 VA in AC – 3W in DC): Δp max = 12 bar
2 - Low power consumption coil on request (3,5 VA in AC – 3W in DC): Δp max = 8 bar
3 - WRAS approved solenoid valve (certificate n. 2007001)

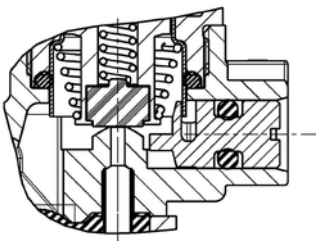
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## Spare Parts

**L182 B-V-D01**




**L182 B-V-D02**



| Kit description | Model | Port Size | Kit P.N. | Consisting of: |
|---|---|---|---|---|
| Core kit | L182B-V | | G3138201 | Core kit pos.2<br>Core return spring pos. 3<br>O-Ring guide assembly pos. 4 |
| | L182D | | G3138202 | |
| Diaphragm assembly | L182B | 3/8-1/2 | 2844302R | Diaphragm assembly pos.5 |
| | L182V | 3/8-1/2 | 2844303R | |
| | L182D | 3/8-1/2 | 2844306R | |
| | L182B | 3/4 | 2299701R | |
| | | 1 | 2380101R | |
| | L182V | 3/4 | 2299702R | |
| | | 1 | 2380102R | |
| | L182D | 3/4 | 2299708R | |
| | | 1 | 2380106R | |
| Coil | | | ZB10<br>ZB12<br>ZB14 | Coil pos.1 |

## Installation

- 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