


<i>Body</i>	Brass
<i>Sealing</i>	NBR or FPM or EPDM
<i>Internal components</i>	Brass and stainless steel
<i>Seat</i>	Brass
<i>Core tube</i>	Stainless steel
<i>Shading coil</i>	Copper

<i>Voltages</i>	DC
	AC

ZB10A	ZB12A *	ZB14A *
/	UL and CSA	UL and CSA
PA	PET	PET
fiberglass reinforced	fiberglass reinforced	fiberglass reinforced
F (155°C) -10°C +60°C	F (155°C) -10°C +60°C	H (180°C) -10°C +75°C
ED 100%		
DIN 46340 - 3 poles plug connector		
IP 65 (EN 60529) with plug connector	IP 67 (EN 60529) with plug connector	IP 67 (EN 60529) with plug connector
12-24V (+10% -5%)		
24V/50-60Hz - 115V/50Hz - 230V/50-60Hz (+10% -15%)		
(Other voltages and frequencies on request).		

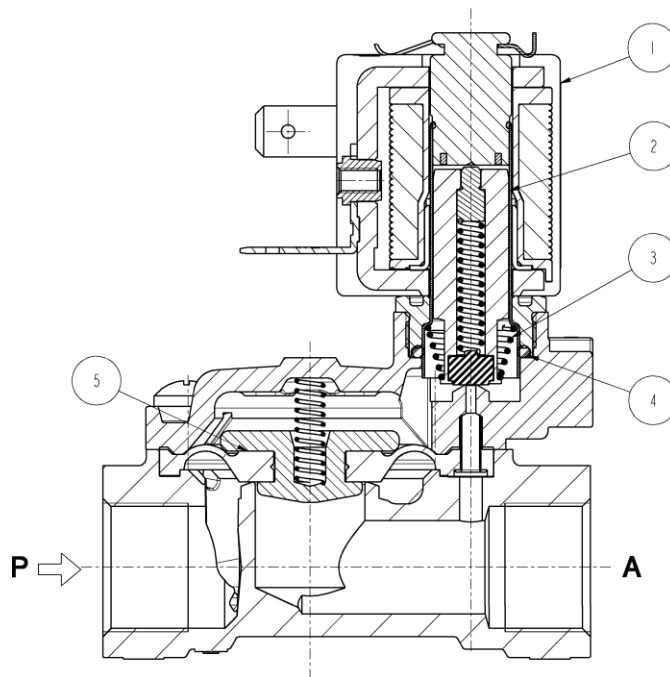
Port size ISO 228	Orifice size (mm)	Differential pressure (bar)				Kv (m³/h)	Series and type			Power absorption				Sealings	Notes	Weight (kg)		
		Δp min	Δp max							AC (VA)		DC						
			Gases		Liquids		Inrush	Holding										
			AC	DC	AC			DC	Valve	Valve with manual override	Coil	VA	VA				W	W
3/8	13,5	0,35	16 (12)	16 (12)	16 (12)	16 (12)	2,5	L182(*)J01	L182(*)J02	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	0,52
1	24																12	1,08

- 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 - L182D01 – L182D02:  certified solenoid valves (certificate n. 1411048).

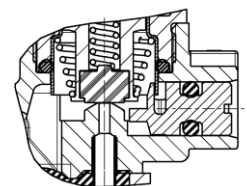
L182

► SPARE PARTS

L182 B-V-D01



L182 B-V-D02



Kit description

Kit P.N.

Consisting of:

Core kit
L182B-V
L182D

G3138201
G3138202

Core kit pos.2
Core return spring pos. 3
O-Ring guide assembly pos. 4

Diaphragm assembly

L182B	3/8-1/2	2844302R
L182V	3/8-1/2	2844303R
L182D	3/8-1/2	2844306R

Diaphragm assembly pos.5

L182B	3/4	2299701R
	1	2380101R

L182V	3/4	2299702R
	1	2380102R

L182D	3/4	2299708R
	1	2380106R

Coil

ZB10
ZB12
ZB14

Coil pos.1

► INSTALLATION

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

► PIPE CONNECTIONS:

- Make sure that the arrow or the part numbering on the valve body correspond to the flow direction
- Make sure that no foreign bodies enter the solenoid valve during the assembly.
- At a very low ambient temperature, the medium can solidify and damage the solenoid valve.
- Make sure that the piping is perfectly clean. If possible, let the fluid circulate free for a few seconds without the solenoid valve.
- Due to their internal construction, these solenoid valves tend to retain solid particles, residues for machining, dirt and sediment conveyed by or suspended in the fluid.
- Therefore, we recommend that a close-mesh demountable filter should be installed upstream of the solenoid valve.
- Use good quality components for sealing the piping (tapes, glues, adhesives, bi-conical fittings, etc.). Never use hemp or similar products. Do not use adhesive or glue for solenoid valves with techno-polymer body, since they can corrode it.
- Use the right size wrench, applied to the hexagon or to the parallel planes of the body, when screwing the valves to the piping. Never use the valve as a lever arm, since this can deform the core tube, thus preventing the valve from working properly and causing it to burn out.
- Valves can work in any position. However, apart from special versions, we recommend vertical mounting with the coil upwards. While it is technically possible to mount the valve with the coil facing other directions, this can lead to an accumulation of foreign matters in core tube that negatively affect the regular solenoid valve working.
- In case of connection to flexible piping, in order to secure the solenoid valve, use its body through or blind holes.
- PINCH solenoid valves: join the soft tube to the provided slot before coil electrical connection. Do not use tubes with Shore hardness different from the recommended one.
- Always bear in mind the clamping force and any other data provided in the technical information.

► ELECTRICAL CONNECTIONS:

- Verify the correspondence of voltage and frequency values printed on the coil with the main power supply ones.
- Solenoid valves must be connected to any suitable earthing system depending on the voltage and the local regulations. As for DC models, no polarity is pre-determined for electrical connections, excepting for latching models
- Do not connect the coil before its mounting on the solenoid valve.
- PINCH solenoid valves: do not connect the coil before the soft tube has joined the proper slot.
- Apart from special cases, all coils can rotate to adapt to different requirements. Afterwards lock the lock-nut of models having this possibility.
- All our solenoids are suitable for continuous duty with the exception of special models, where this is indicated on the coil. Obviously, under this condition the valve heats up and should not be touched with bare hands.
- The maximum temperature reached by the coil is a function of the temperature of the fluid, the ambient temperature and the conditions of use of the valve. Under certain conditions, the valve should be kept away from heating sources or closed environments that do not permit normal heat dissipation.