

[illegible]

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



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) 0°C +130°C (FPM) -10°C +140°C (EPDM)			
Max viscosity	5°E (~37 cStokes or mm²/s)			

Materials in Contact with Fluid	
Body	Stainless steel AISI 316L
Sealing	NBR or FPM or EPDM
Internal components	Stainless steel
Seat	Stainless steel AISI 316L
Core tube	Stainless steel
Shading coil	Copper

Coil		ZB12A	ZB14A
Approval		UL and CSA	
Encapsulation material		PET fiberglass reinforced	
Insulation class		F (155°C)	H (180°C)
Ambient temperature		-10°C +60°C	-10°C +75°C
Continuous duty		ED 100%	
Electric connection		DIN 46340 - 3 poles plug connector	
Protection degree		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		ZB12Y	ZB14Y
Approval		UL	
Voltages	AC	220-230V/50Hz 208-240V/60Hz (+10% -15%)	

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						VA	VA	W			
3/8	13,5	0,35	16 (12)	16 (12)	16 (12)	16 (12)	2,5	L182(*)09	L182(*)10	ZB12A	12	6	4	5,5	(*) = B (NBR) (*) = V (FPM) (*) = D (EPDM)	1-3	0,30
1/2			3,8	0,35													
3/4	18		12 (10)	12 (10)	12 (10)	12 (10)	5									2-3	0,50
1	24		12 (10)	12 (10)	12 (10)	12 (10)	12										1,09

- 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 FPM seals.

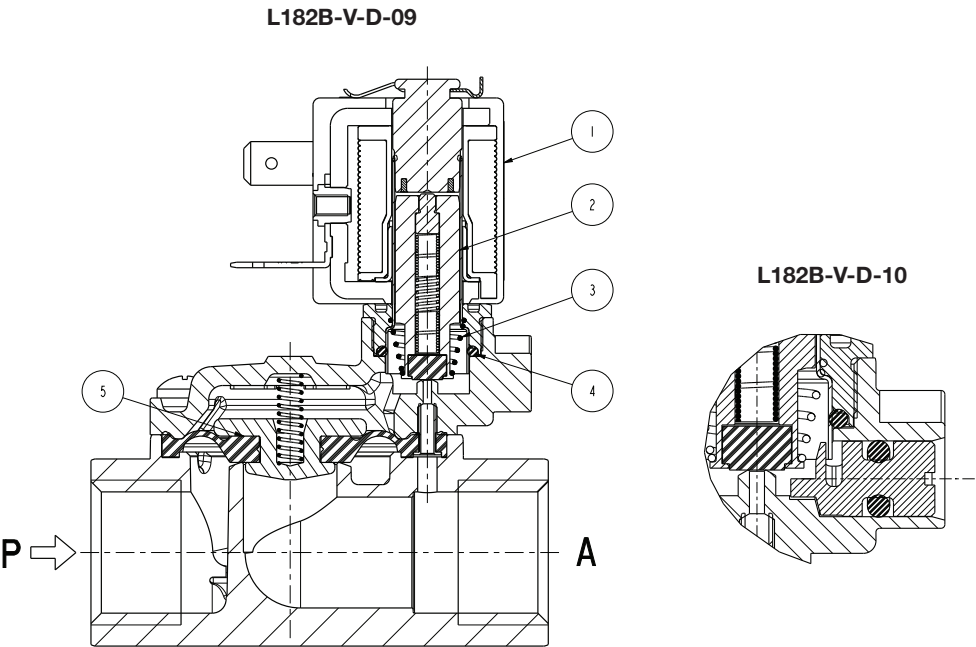
- 1 - Low power consumption coil on request ZB12C or ZB14C (3,5 VA in AC – 3W in DC): $\Delta p_{max} = 12$ bar
- 2 - Low power consumption coil on request ZB12C or ZB14C (3,5 VA in AC – 3W in DC): $\Delta p_{max} = 8$ bar
- 3 - L182D09 – L182D10: WRAS certified solenoid valves (certificate n. 1411048).

STAINLESS STEEL

SERIES
L182

ASCO™ SOLENOID VALVE
2/2 NORMALLY CLOSED – PILOT OPERATED - G3/8 - G1

Spare Parts



Kit description	Model	Port Size	Kit P.N.	Consisting of:
Coil	L182B-V		G3138201	Core kit pos.2
	L182D		G3138202	Core return spring pos. 3 O-Ring guide assembly pos. 4
Diaphragm assembly	L182B	3/8-1/2	2844305R	Diaphragm assembly pos.5
		3/4	298594-003R	
		1	298592-003R	
	L182V	3/8-1/2	2844309R	
		3/4	298594-001R	
		1	298592-001R	
	L182D	3/8-1/2	2844308R	
		3/4	298594-002R	
		1	298592-002R	
Coil			ZB12 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