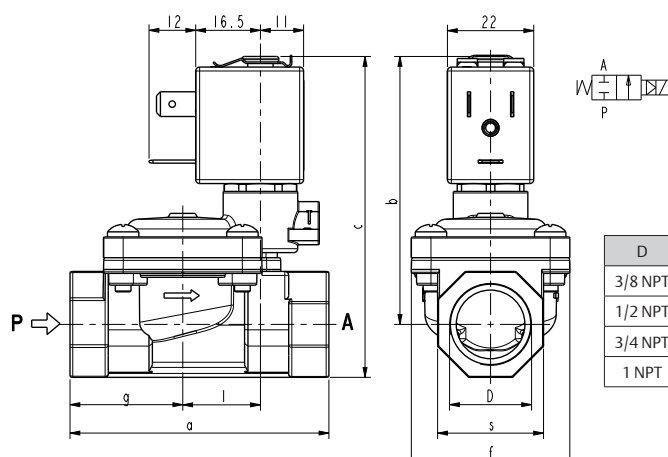


ASCO™ SOLENOID VALVE

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

L182-NPT



D	a	b	c	f	g	l	s
3/8 NPT	60	66	77	40	25,5	20	22
1/2 NPT	66	68	82	40	29	20	27
3/4 NPT	79	72,5	89	50	35,5	24,5	33
1 NPT	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) 0°C +130°C (FPM) -10°C +140°C (EPDM)* 			
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	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 NPT	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			
3/8	13,5	0,35	16 (12)	16 (12)	16 (12)	16 (12)	2,5	L182(*)11	L182(*)12	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

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 FPM seals.

1 - Low power consumption coil on request ZB12C or ZB14C (3,5 VA in AC – 3W in DC): $\Delta p_{max} = 12 \text{ bar}$

2 - Low power consumption coil on request ZB12C or ZB14C (3,5 VA in AC – 3W in DC): $\Delta p_{max} = 8 \text{ bar}$

3 - WRAS approved solenoid valve (certificate n. 2007001).

STAINLESS STEEL

SERIES

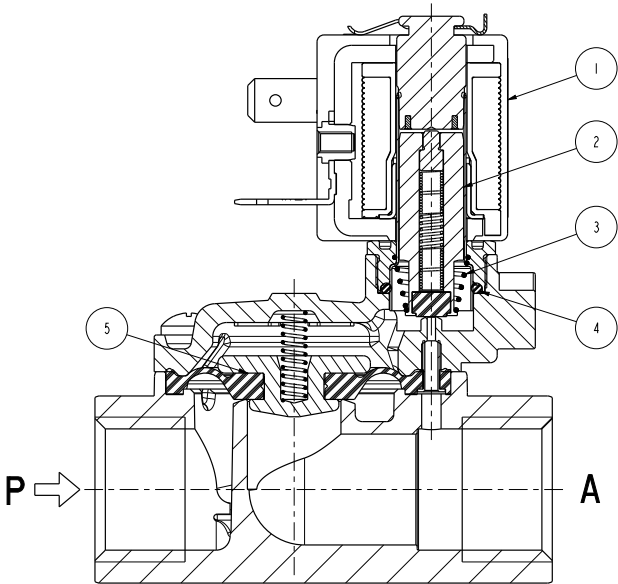
L182-NPT

ASCO™ SOLENOID VALVE

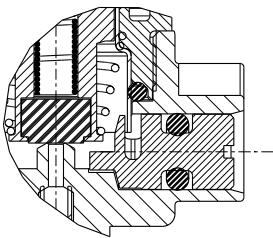
2/2 NORMALLY CLOSED – PILOT OPERATED - 3/8 NPT ÷ 1 NPT

Spare Parts

L182B-V-D-11



L182B-V-D-12



Kit description	Model	Port Size	Kit P.N.	Consisting of:
Core kit	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.

ASCO™

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