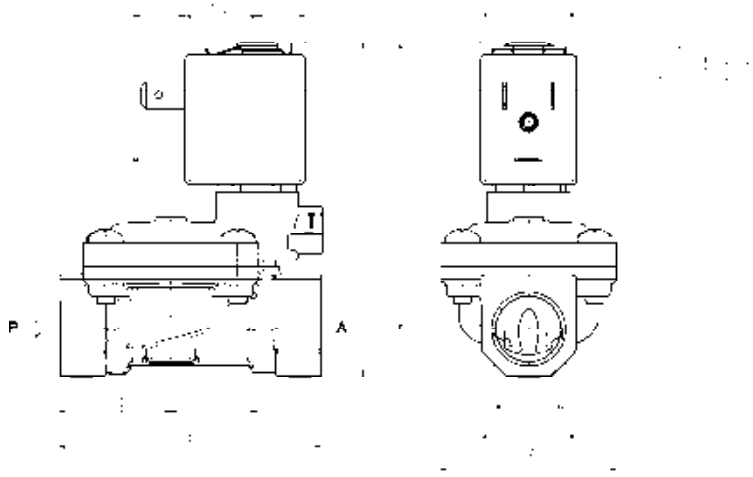
SOLENOID VALVE
2/2- NC (Normally closed)
Pilot operated
G 3/8 ÷ G 1

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) 20bar

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	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%)		
Voltages AC	24V/50-60Hz - 115V/50Hz - 230V/50-60Hz (+10% -15%)		
	(Other voltages and frequencies on request).		

✱ On request

	/	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) Δp min	Δp max Gases AC	Δp max Gases DC	Δp max Liquids AC	Δp max Liquids DC	Kv (m³/h)	Series and type: Valve	Series and type: Valve with manual override	Series and type: Coil	Power absorption AC (VA) Inrush VA	Power absorption AC (VA) Holding VA	Power absorption AC (VA) Holding W	Power absorption DC W	Sealings	Notes	Weight (kg)
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)	1-3	0,32
1/2							3,8								(*) = V (FPM)		0,38
3/4	18		12 (10)	12 (10)	12 (10)	12 (10)	5									2-3	0,52
1	24						12								(*) = D (EPDM)		1,08

► NOTES

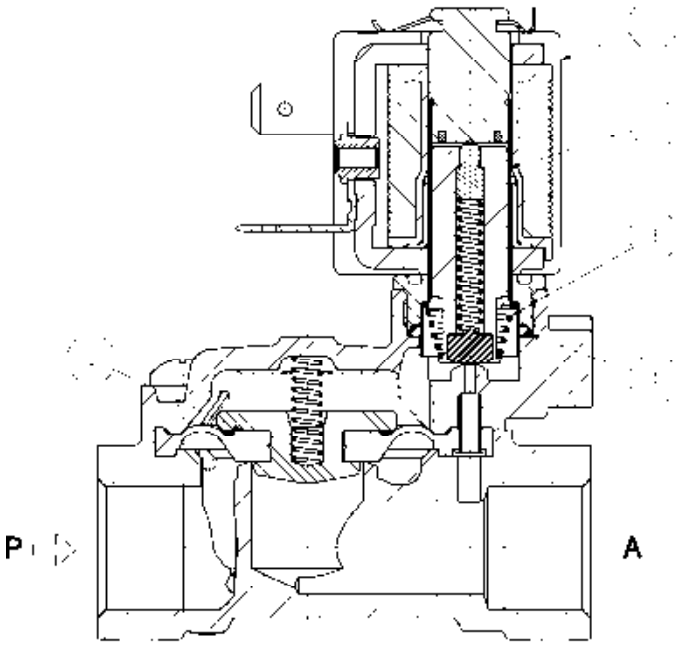
- Sealings: B(NBR)=Nitrile-butylene elastomer V(FPM)=Fluoro-carbon elastomer D(EPDM)=Ethylene-propylene elastomer (WRAS/KTW certified compound)
- Operation with gaseous media, at high pressure without any outlet restriction, can reduce the diaphragm life.
- On request coil in class H (ZB14A – see § "COIL")
- 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 - L182D01 – L182D02: WRAS certified solenoid valves (certificate n. 1411048).

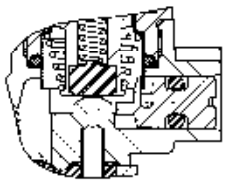
1412/1605

► SPARE PARTS

L182 B-V-D01



L182 B-V-D02



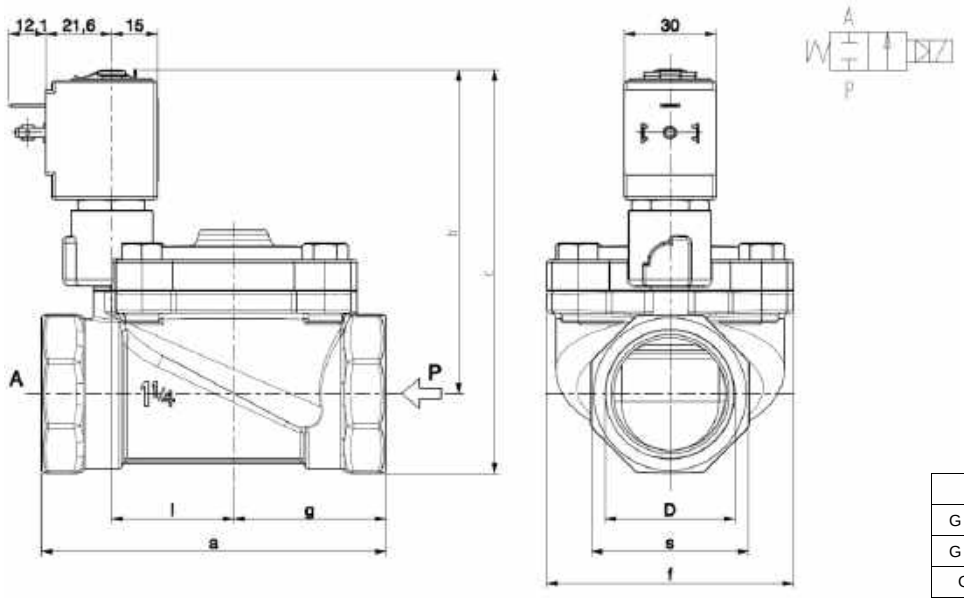
Kit description			Kit P.N.	Consisting of:
Core kit	L182B-V L182D		G3138201 G3138202	Core kit pos.2 Core return spring pos. 3 O-Ring guide assembly pos. 4
Diaphragm assembly	L182B L182V L182D	3/8-1/2 3/8-1/2 3/8-1/2	2844302R 2844303R 2844306R	Diaphragm assembly pos.5
	L182B	3/4 1	2299701R 2380101R	
	L182V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

►INSTALLATION

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

SOLENOID VALVE
2/2 - NC (Normally closed)
Pilot operated
G1 ¼ ÷ 2

L182D-BIG
G 1" ¼ ÷ 2"



D	a	b	c	f	g	l	s
G 1 ¼	113	106	132	81	50	40	52
G 1 ½	140	110	140	110	64	53	60
G 2	157	114	150	110	72	53	72

► GENERAL FEATURES
Diaphragm valve, pilot operated, having full orifice.
Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with materials in contact).
Not suitable for use with dangerous fluids listed in Group 1, therefore they are free from CE marking in conformity with article 3 § 3 of the European Directive 97/23/EC (Pressure Equipment Directive).
WRAS certified solenoid valves (certificate n. 1411048).

► MATERIALS IN CONTACT WITH FLUID

Body	Brass
Sealing	EPDM
Internal components	Brass and stainless steel
Seat	Brass
Guide assembly	Stainless steel
Shading ring	Copper

► TECHNICAL FEATURES

Maximum allowable pressure (PS)	10 bar

Response times	1 1/4	1 1/2	2
Opening time (ms)	100	360	360
Closing time (ms)	650	650	650

Fluid temperature	-10°C +85°C
Max viscosity	5°E (~37 cStokes or mm²/s)

► COIL

Approval		UL (class F) – for UL cl.H: ZA34
Continuous duty		ED 100%
Encapsulation material		PPS (Polyphenilsulfure) fiberglass reinforced
Coil insulation class		F (155°C) on request class H (180°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	*DC*	12-24V (+10% -5%)
	AC	24V/50Hz - 110V/50Hz (120V/60Hz) - 230V/50Hz (+10% -15%)
		(Other voltages and frequencies on request)

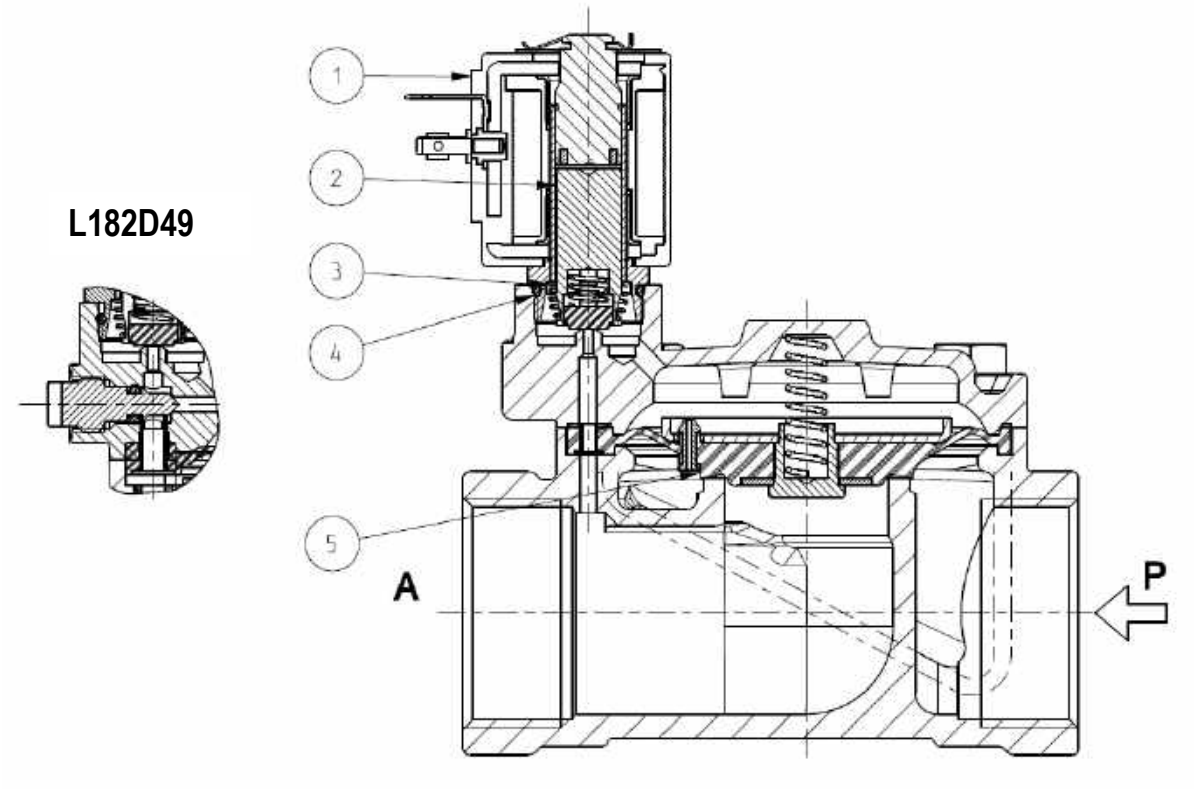
Port size ISO 228	Orifice size. (mm)	Differential pressure (bar)					Kv (m^3/h)	Series and type			Power absorption			Sealings	Notes	Weight (kg)
		Δp min	Δp max					Valve	Valve with manual override	Coil	AC (VA)		DC (W)			
			Gases		Liquids						Inrush	Holding				
			AC	DC	AC	DC										
G 1 ¼	30	0,50	10	10	10	10	15	**L182D48**	**L182D49**	**ZA10A**	23	14	9	EPDM	-	1,590
G 1 ½	45						27									2,510
G 2	45						34									2,990

► NOTES
- Sealings: EPDM = Ethylene-propylene elastomer
- Operation with gaseous fluids at high pressure without any outlet restriction can reduce the diaphragm life.
- UL approved coil (E153691)

1705

► **SPARE PARTS**

L182D48



L182D49

Kit description		Kit P.N.	Consisting of:
Core kit		G3146803	Core pos. 2 Core return spring pos. 3 OR guide assembly pos. 4
Diaphragm kit	G 1 ¼ G1 ½ - 2	2400804R 2401305R	Diaphragm assembly pos. 5
Coil		ZA10A	Coil pos. 1

► **MOUNTING**

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

WRAS Approved Solenoid Valves

The Sirai L182 and L282 WRAS approved solenoid valves have been specifically designed for controlling potable water, mains supply water and hot & cold drinking water systems.

These WRAS approved solenoid valves are manufactured to the highest quality standards guaranteeing a long life service.

They are most commonly used within applications such as automatic flushing, automatic hand washing, vending plus more.

Benefits

- *Designed for improving safety, performance and reliability.*
- *Valve is designed for applications where fast opening and closing times are required.*
- *Minimal maintenance is required over the life time of the valve due to its high-quality design and robust internal components.*
- *Low power option, and latching versions available. For when you need to reduce your power consumption without compromising valve performance.*

sirai™

Simply what you need

Series	L182		L282	
Function	2/2 Normally closed		2/2 Normally open	
Ports	3/8" to 1"	1"1/4 to 2"	3/8" to 1"	1" 1/4 to 2"
Thread type	G & NPT		G & NPT	
Body Material	Brass/Stainless steel	Brass	Brass/Stainless steel	Brass
Seals	EPDM		EPDM	
Differential pressure	0.35 to 12/16 bar*	0.5 to 10 bar	0.35 to 12 bar	0.5 to 9/10 bar**
Max. Allowable pressure	20 bar	10 bar	20 bar	10 bar
Fluid temp	-10°C to + 85°C		-10°C to + 85°C	
Ambient temp	-10°C to + 60°C	-10°C to + 50°C	-10°C to + 60°C	-10°C to + 50°C

*: Ports 3/8" and 1/2": 16 bar - Ports 3/4" and 1": 12 bar

**: Port 1" 1/4: 10 bar - Ports 1"1/2 and 2": 9 bar

Industries

- Food and beverage - Healthcare - Commercial washrooms - Industrial kitchen and laundry equipment - HVAC

Typical Applications

- Automatic taps - Industrial dishwasher machines - Vending machines - Feeding equipment for animals
-Water treatment - Professional cooking equipment - Autoclave pumps

Simply what you need