

Product Codes:

½" SVM-15
¾" SVM-22
1" SVM-28
1¼" SVM-35
1½" SVM-42
2" SVM-50

SOLENOID SHUT OFF VALVES (½" TO 2")

Product Specification

Smart Valve Monitor (SVM) range of WRAS approved, Normally Closed (power to open), pilot operated, brass solenoid shut off valves, controlled by an on/off switch, a time switch or by a PIR sensor switch for BREEAM credits.

These 230/240 VAC solenoid shut off valves enable a water supply to be turned on or off in response to an electrical b. Our standard valves are Normally Closed – which means that they are closed when de-energised (fail safe) and open when energised.

Please read instructions carefully before installation, we recommend the fitting of a gauze strainer to the inlet to prevent ingress of debris into the valve.



Product Features

- 2/2 NC Normally Closed (fail safe) operation
- Available in sizes from ½" to 2" BSP female thread
- Minimum pressure:
 - ½"-1" (0.35 bar)
 - 1¼"-2" (0.5 bar)
- Maximum pressure:
 - ½" (16 bar)
 - ¾"-1" (12 bar)
 - 1¼"-2" (9 bar)
- Maximum temperature 90°C
- 230/240 V coil – other AC & DC coil voltage options available
- WRAS approved
- Supplied with DIN connector
- 12-month manufacturer's warranty

Please note: standard coil voltage is 230/240 VAC.

Add alternative coil voltage to product code if required (e.g. SVM-22-24 VAC or SVM-15-12 VDC).

For larger valve sizes and low-pressure options please contact us.



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Designed & Manufactured
in the UK



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

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		DC							
			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 – 3 W in DC): Δp max = 8 bar
3. L182D01 – L182D02: WRAS certified solenoid valves (certificate n. 1411048).



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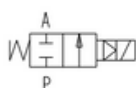
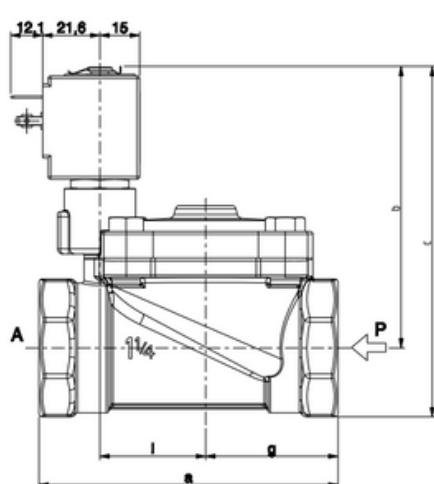
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Solenoid Valve 2/2 - NC (normally closed) Pilot Operated General

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).



D	a	b	c	f	g	l	s
1 1/4	113	106	132	81	50	40	52
1 1/2	140	110	140	110	64	53	60
2	157	114	150	110	72	53	72

Technical Specifications

Maximum Allowance pressure (PS)	16 bar (1/2"), 12 bar (3/4"-1"), 9 bar (1 1/4"-2")
Opening Time	from ~300 ms to ~1500 ms
Closing Time	from ~1000 ms to ~2000 ms
Fluid Temperature	-10°C +85°C
Maximum 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



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Approval	UL (class F) – for UL cl.H: ZA34
Electrical Connections	DIN 46340 – 3 poles plug connectors (EN175301-803)
Protection Degree	IP67 (EN 60529) with plug connector
Voltage DC	12-24 V (+10% -5%)
Voltage AC	24 V/50 Hz – 110 V/50 Hz (120 V/60 Hz) 230 V/50 Hz (+10% - 15%) (Other voltages and frequencies on request)

Materials in Contact with Fluid

Body	Brass
Sealing	EPDM
Internal Components	Brass and stainless steel
Seat	Brass
Core tube	Stainless steel
Shading coil	Copper

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)

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					Valve	Valve with manual override	Coil	AC (VA)		DC (W)			
			Gases		Liquids						Inrush					
			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



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