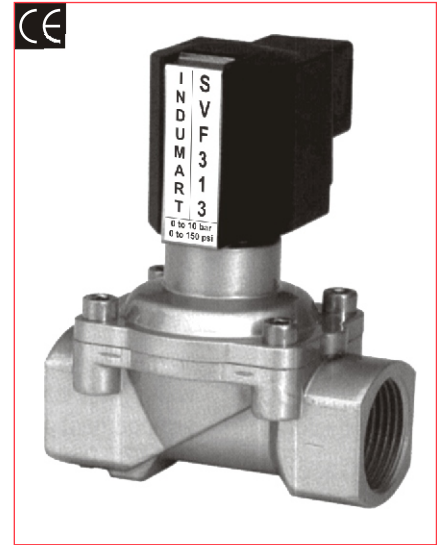


2/2-WAY SOLENOID VALVE

SERIES: SVF300

- > COMPACT DESIGN
- > EXCELLENT FLOW RATE
- > SUITABLE FOR VACUUM
- > NO DIFFERENTIAL PRESSURE REQUIRED
- > SOLENOID ACTUATED WITH FORCE LIFTING
- > LONG SERVICE LIFE & RELIABLE SWITCHING
- > SOLENOID EASILY CHANGED WITHOUT TOOLS
- > UP TO 150 PSI (10 BAR) OPERATING PRESSURE
- > DESIGNED TO INTERNATIONAL SAFETY REGULATION



Zero ΔP
& Vacuum
Applications

DESCRIPTION

Indumart Series SVF300 Solenoid Valves are diaphragm seat valves with excellent sealing qualities and are actuated by force lifting. The force produced by the solenoid plunger, which is mechanically coupled to the main closure device, opens this type of valve.

The sequence starts with the solenoid opening the pilot seat. This relieves the pressure on the main closure device, bringing it into balance so the solenoid force can lift it into the open position. When the pilot seat is closed, bleed orifices allow a force to build up on the closure device that pushes it down into the closed position on the valve seat.

With the introduction of captive spring clips, the solenoid can be readily fitted and replaced without any tools (**Click-on** ).

The technically impressive flow rates achieved with these compact diaphragm valves are attributed to a solenoid system that is unique and requires no pressure differential for its operation.

These solenoid valves are designed for reliable services in the vacuum and low pressure ranges. Optionally, they can be ordered for process temperature of up to 110°C.

SPECIFICATIONS

Body	Brass
Valve Type	Diaphragm
Seat Seal	NBR (Perbunan); see option
Internal Parts	Stainless steel, PVDF
Switching Function	N.C. (standard); N.O. (option)
Connection	□", ⚡", Ⓜ", Ⓜ", 1"
Pressure Range	0 to 150 psi (0 to 10 bar)
Viscosity	Up to 25 mm ² /s
Fluid Temperature	-10 to +90°C; 110°C (option)
Ambient Temperature	-10 to +50°C
Standard Voltage	24VDC, 24VAC, 42VAC, 110VAC, 230VAC
Power Consumption	DC AC 18W 20VA (inrush & holding)
Voltage Over Range	±10%
Protection	IP65 with power lead socket

FLOW CHARACTERISTIC DATA

Connection	K _v (m ³ /h)	C _v (gpm)
□"	1.9	2.2
⚡"	3.0	3.5
Ⓜ"	3.4	3.9
Ⓜ"	5.8	6.7
1"	8.0	9.2

The SVF300 Series diaphragm valves were developed and designed using the following harmonised standards:

EN 292	Machine Safety
EN983	Pneumatic Systems
EN60204-1	Electrical Equipment for Machinery

ORDERING

Model: SVF3 -

BODY, THREAD & ACTION

Brass Body; G Port, N.C.
 Brass Body; NPT Port, N.C.
 Brass Body; G Port, N.O.
 Brass Body; NPT Port, N.O.

1
2
3
4

VALVE SIZE

1/8"
1/4"
3/8"
1/2"
3/4"
1"

1
2
3
4
5

SOLENOID

Complete with Solenoid (standard)
 Valve Only - Without Solenoid

S
X

SOLENOID SERIES

Type 3 (AC voltages only)
 Type 5 (DC voltages only)

3
5

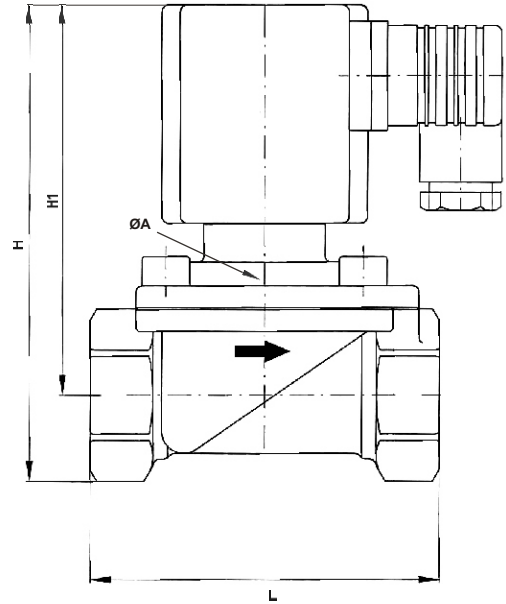
POWER REQUIREMENT

24 VDC
 24 VAC, 50 Hz
 42 VAC, 50 Hz
 110 VAC, 50 Hz
 230 VAC, 50 Hz
 120 VAC, 60 Hz
 220 VAC, 60 Hz

1
2
3
4
5
6
7

OPTIONS:

- Viton (FPM) Seat Seal for up to +110°C fluid temperature
 - EPDM Seat Seal for up to +110°C fluid temperature



DIMENSIONS & WEIGHT

ØA = maximum depth

Port Size	ØA (mm)	L (mm)	H (mm)	H1 (mm)	Weight (kg)
1/8"	44	60	104	92.5	0.79
1/4"	44	60	104	92.5	0.77
3/8"	44	67	108	94.5	0.80
1/2"	50	80	115	99.0	0.97
1"	62	95	124	103.5	1.30

WATER FLOW RATE VS. PRESSURE DIFFERENTIAL
 SVF300 SERIES SOLENOID VALVES - TEMP. 5°C to 30°C

