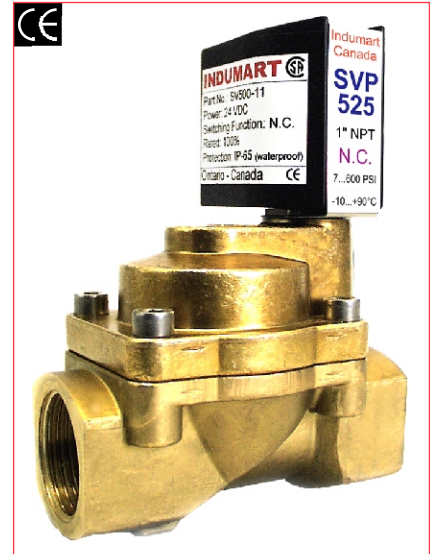


2-WAY SOLENOID VALVE

SERIES: SVP500

- > COMPACT PISTON VALVE
- > EXCELLENT FLOW RATE
- > DAMPED OPERATION
- > 600 PSI (40 BAR) OPERATING PRESSURE
- > LONG SERVICE LIFE & RELIABLE SWITCHING
- > PISTON VALVES AVAILABLE IN VARIOUS MATERIALS
- > DESIGNED TO INTERNATIONAL SAFETY REGULATIONS
- > SERVO ASSISTED, PILOT OPERATED OR INDIRECT ACTING



High Pressure Applications

DESCRIPTION

Indumart Series SVP500 Solenoid Valves operate on the servo assistance principle, which requires a specified differential pressure for opening and closing. When energized, the solenoid opens the pilot seat. This relieves the pressure on the main closure device, which is raised into the open position by the increasing effective force on its underside. Closure of the pilot seat builds up a closing force on the main closure device via bleed orifices. While the differential pressure is maintained in the required domain, the valve remains securely closed.

Indumart Series SVP500 Solenoid Valves are suitable for processes involving neutral gaseous or liquid fluids with a pressure up to 600 psi (40 bar). The normally-open version of the series SVP500 may be used in processes with maximum 450 psi (30 bar) pressure.

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

OPTIONAL FEATURES

- Viton (FPM) Seat Seal for fluids up to +110°C
- EPDM Seat Seal for hot water up to +110°C
- Manual Override
- EEx Solenoid

SPECIFICATIONS

Body	Brass
Valve Type	Piston
Seat Seal	NBR (Perbunan); see option
Internal Parts	Stainless steel, brass, PTFE
Actuation	Indirect
Switching Function	N.C. (standard); N.O. (option)
Connection	1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2" & 2"
Pressure Range	7 to 600 psi (N.C. valves) 7 to 450 psi (N.O. valves)
Viscosity	Up to 40 mm ² /s
Fluid Temperature	-10 to +90°C (option: 110°C)
Ambient Temperature	-10 to +50°C
Standard Voltage	24VDC, 24VAC, 42VAC, 110VAC, 230VAC
Power Consumption	DC AC 18W 45 VA (inrush) 35VA (holding)
Voltage Over Range	±10%
Protection	IP65 with power lead socket

FLOW CHARACTERISTIC DATA

Connection	K _v (m ³ /h)	C _v (gpm)
1/4"	2.2	2.5
3/8"	3.4	3.9
1/2"	4.4	5.1
3/4"	7.0	8.1
1"	10.5	12.1
1 1/4"	25.0	28.9
1 1/2"	27.0	31.2
2"	43.0	49.7

ORDERING

Model: SVP5 -

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

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

1
2
3
4
5
6
7
8

SOLENOID

Complete with Solenoid (standard)
 Valve Only - Without Solenoid

S
X

SOLENOID SERIES

Type 5

5

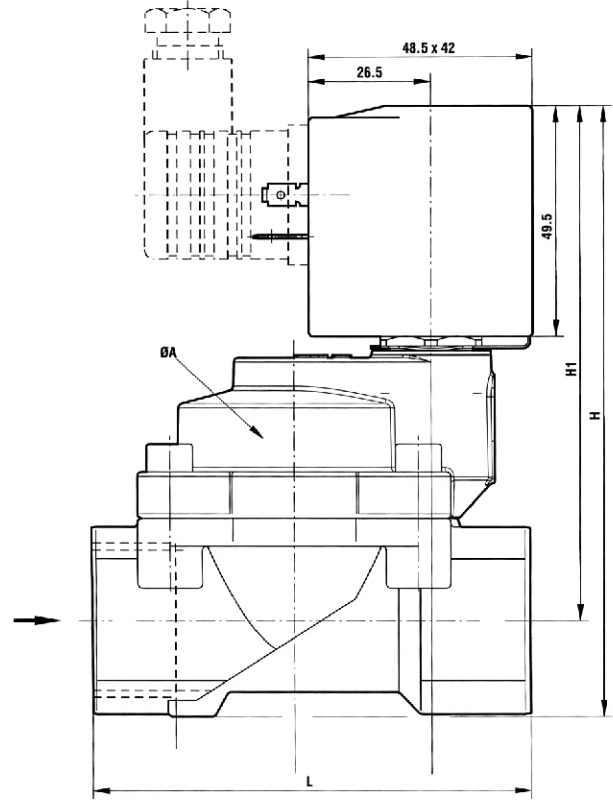
POWER REQUIREMENT

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 fluids up to +110°C
- EPDM Seat Seal for hot water up to +110°C
- Manual Override
- EEx Solenoid



DIMENSIONS & WEIGHT

ØA = maximum depth

Port Size	ØA (mm)	L (mm)	H (mm)	H1 (mm)	Weight (kg)
1/4"	44	60	105.0	93.5	0.83
3/8"	44	60	105.0	93.5	0.82
1/2"	44	67	107.5	93.5	0.85
3/4"	50	80	119.0	102.5	1.25
1"	62	95	131.5	110.5	1.70
1 1/4"	92	132	166.0	137.0	4.10
1 1/2"	92	132	166.0	137.0	3.85
2"	109	160	186.0	151.5	5.60

The SVP500 Series piston valves were developed and designed using the following harmonised standards:

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

WATER FLOW RATE VS. PRESSURE DIFFERENTIAL
 SVP500 SERIES SOLENOID VALVES - TEMP. 5°C to 30°C

