2/2-WAY SOLENOID VALVE

SERIES: SVP400

- COMPACT DESIGN
- EXCELLENT FLOW RATE
- LONG SERVICE LIFE & RELIABLE SWITCHING
- > UP TO 230 PSI (16 BAR) OPERATING PRESSURE
- > DESIGNED TO INTERNATIONAL SAFETY REGULATIONS
- DIAPHRAGM VALVES AVAILABLE IN VARIOUS MATERIALS
- > SERVO ASSISTED, PILOT OPERATED OR INDIRECT ACTING



Indumart Series SVP400 Solenoid Valves operate on the servo assistance principle, which requires a specified differential pressure for When energized, the opening and closing. 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. differential pressure is maintained in the required domain, the valve remains securely closed.

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 a minimum pressure differential of only 1.5 psi (0.1 bar) for its operation.

OPTIONAL FEATURES

- Viton (FPM) Seat Seal for fluids up to +110°C
- EPDM Seat Seal for hot water up to +110°C and pressure from 5 to 150 psi (0.3 to 10 bar)
- Manual Override
- Degreased Version
- EEx Solenoid
- Latching Coil

SPECIFICATIONS

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Valve Type Seat Seal Internal Parts Actuation **Switching Function** Connection **Pressure Range**

Viscosity Fluid Temperature Ambient Temperature -10 to +50°C Standard Voltage

Power Consumption Type 4 Solenoid

Type 5 Solenoid

Voltage Over Range Protection

† with "Type 4" solenoid

St. steel; Brass **Chromium-plated Brass**

Diaphragm

NBR (Perbunan); see option Stainless steel, brass, PVDF

Indirect

N.C. (standard); N.O. (option) 1/4", 3/8", 1/2", 3/4", 1", 11/4", 11/2" & 2" 1.5 to 230 psi for 1/4" to 1" 1.5 to 150 psi for 11/4" to 2"† 1.5 to 230 psi for 11/4" to 2"#

Up to 25 mm²/s

-10 to +90°C (option: 110°C)

24VDC, 24VAC, 42VAC, 110VAC, 230VAC

DC AC

15 VA (inrush)

12VA (holding) 45 VA (inrush)

35VA (holding)

±10%

8W

18W

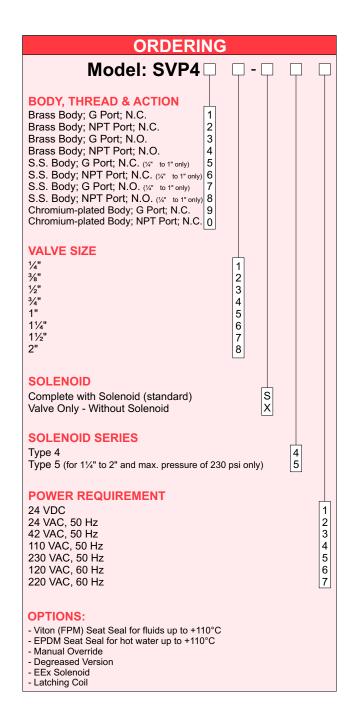
IP65 with power lead socket

‡ with "Type 5" solenoid

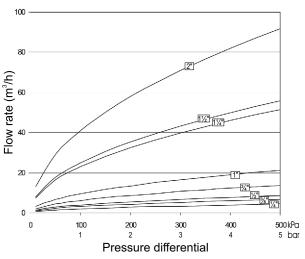
FLOW CHARACTERISTIC DATA

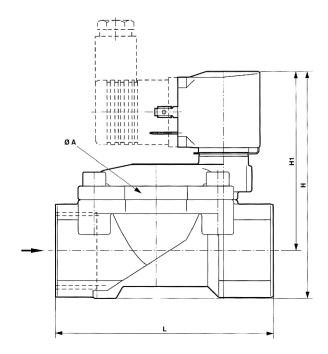
Connection	K_{v} (m 3 /h)	C _v (gpm)
1/4"	1.9	2.2
3/8"	3.0	3.5
1/2"	3.8	4.4
3/4"	6.1	7.1
1"	9.5	11.0
11/4"	23.0	26.6
1½"	25.0	28.9
2"	41.0	47.4





WATER FLOW RATE VS. PRESSURE DIFFERENTIAL SVP400 SERIES SOLENOID VALVES - TEMP. 5°C to 30°C





DIMENSIONS & WEIGHT

ØA = maximum depth

With "Type 4" Solenoid

Port Size	ØA (mm)	L (mm)	H (mm)	H1 (mm)	Weight (kg)
1/4"	44	60	78.5	67.0	0.47
3/8"	44	60	78.5	67.0	0.45
1/2"	44	67	81.0	67.0	0.50
3/4"	50	80	88.0	71.5	0.65
1"	62	95	97.5	77.0	0.95
11/4"	92	132	124.5	95.5	2.73
1½"	92	132	124.5	95.5	2.53
2"	109	160	142.5	108.0	3.85

With "Type 5" Solenoid

Port Size	ØA (mm)	L (mm)	H (mm)	H1 (mm)	Weight (kg)
11/4"	92	132	142	113.0	3.00
11/2"	92	132	142	113.0	2.85
2"	109	160	160	125.5	4.13

The SVP400 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