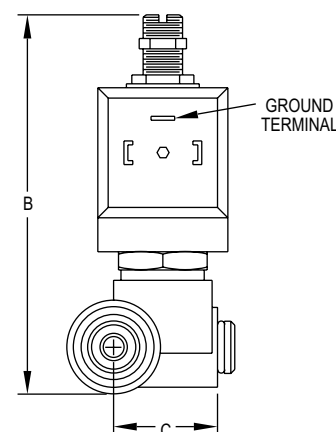
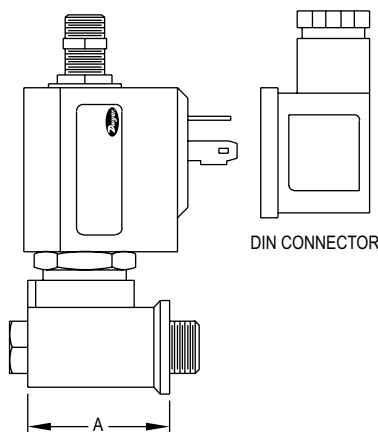




Series PV Solenoid Pilot Valve

Specifications - Installation and Operating Instructions



The **Series PV three-way normally closed** electro-pneumatic solenoid pilot valve effectively regulates supply pressures for the Series SAV Angle Seat Valve. The DIN connector is reversible 180 degrees to keep electrical wiring hassle-free, while the direct mounting banjo connection simplifies valve installation. Select the proper model according to the SAV valve actuator diameter and power requirements.

INSTALLATION

WARNING When working on the Actuator/Valve assembly, disconnect the air or power supply to the actuator. Spring return actuators/valves may change position if power fails or is removed. Never insert any object or body part into the valve body. Severe injury may occur.

1. Examine valve for transport damage.
2. Compare the technical description of valve on valve tag (on top of the coil) with your application requirements.
3. Keep dirt and debris out of valve and piping.
4. **DO NOT** use valve or coil as a lever when installing.
5. To fit the solenoid valve onto a normally closed SAV valve, use the pilot connection marked "NC"; for normally open valves use the connection marked "NO".
6. When using water as a pilot media, remove the cap from the exhaust connection and connect a drain line.
7. Automatic operation is standard. For manual (exhaust) operation, turn override screw 180° counter-clockwise. Override screw is identified by "O" and "C" engravings.
8. Make all electrical and plumbing connections in accordance with federal, state, and local regulations.

INSTRUCTIONS FOR ELECTRICAL PLUG

(see diagram below)

1. Place your 18 gauge SVT or equal wire into #7, 6, 5, and 4, in that order.
2. Terminate your wire into the cable fixing screws #3 and the other pole screw termination.
3. The ground or earth termination lies in-between #3 and the other termination screw.
4. Reassemble the connector. The valve can now be directly mounted (banjo connection) onto the actuator.

SPECIFICATIONS

Pilot media: Air, water, or inert gases.
Power Requirements: See model chart.
Wetted Materials: Body: Niploy coated brass; Seal: FKM.
Maximum Supply Pressure: 150 psig.
Temperature Limits: 14 to 140°F (-10 to 60°C).
Actuator Connection: PV1_: 1/8" BSP; PV2_, PV3_: 1/4" BSP.
Pilot Media Connection: 1/8" NPT.
Coil Consumption: PV1_, PV2_: AC: 9A (res.), 14A (ind.); DC: 6A. PV3_: AC: 15A (res.), 30A (ind.); DC: 10A.
Mounting: Banjo connection.
Enclosure Rating: IP65 (with DIN connector).
Standard Features: Manual override, DIN connector.

MODEL CHART

Model	Voltage	SAV Actuator Diameter	A in. (mm)	B in. (mm)	C in. (mm)	Weight lbs.(kg)
PV11	240VAC	1-3/4"	1-1/4 (31.8)	3-1/32 (77.0)	1-1/16 (27.0)	0.6 (0.27)
PV12	120VAC	1-3/4"	1-1/4 (31.8)	3-1/32 (77.0)	1-1/16 (27.0)	0.6 (0.27)
PV13	24VAC	1-3/4"	1-1/4 (31.8)	3-1/32 (77.0)	1-1/16 (27.0)	0.6 (0.27)
PV14	24VDC	1-3/4"	1-1/4 (31.8)	3-1/32 (77.0)	1-1/16 (27.0)	0.6 (0.27)
PV21	240VAC	2-1/2"	1-3/8 (35.0)	3-1/16 (77.8)	1-1/16 (27.0)	0.6 (0.27)
PV22	120VAC	2-1/2"	1-3/8 (35.0)	3-1/16 (77.8)	1-1/16 (27.0)	0.6 (0.27)
PV23	24VAC	2-1/2"	1-3/8 (35.0)	3-1/16 (77.8)	1-1/16 (27.0)	0.6 (0.27)
PV24	24VDC	2-1/2"	1-3/8 (35.0)	3-1/16 (77.8)	1-1/16 (27.0)	0.6 (0.27)
PV31	240VAC	3-9/16"	1-3/8 (35.0)	3-3/4 (95.3)	1-1/16 (27.0)	0.84 (0.38)
PV32	120VAC	3-9/16"	1-3/8 (35.0)	3-3/4 (95.3)	1-1/16 (27.0)	0.84 (0.38)
PV33	24VAC	3-9/16"	1-3/8 (35.0)	3-3/4 (95.3)	1-1/16 (27.0)	0.84 (0.38)
PV34	24VDC	3-9/16"	1-3/8 (35.0)	3-3/4 (95.3)	1-1/16 (27.0)	0.84 (0.38)

MAINTENANCE

Upon final installation of the Series PV Solenoid Pilot Valve, no routine maintenance is required. A periodic check of the system calibration is recommended. The Series PV is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.