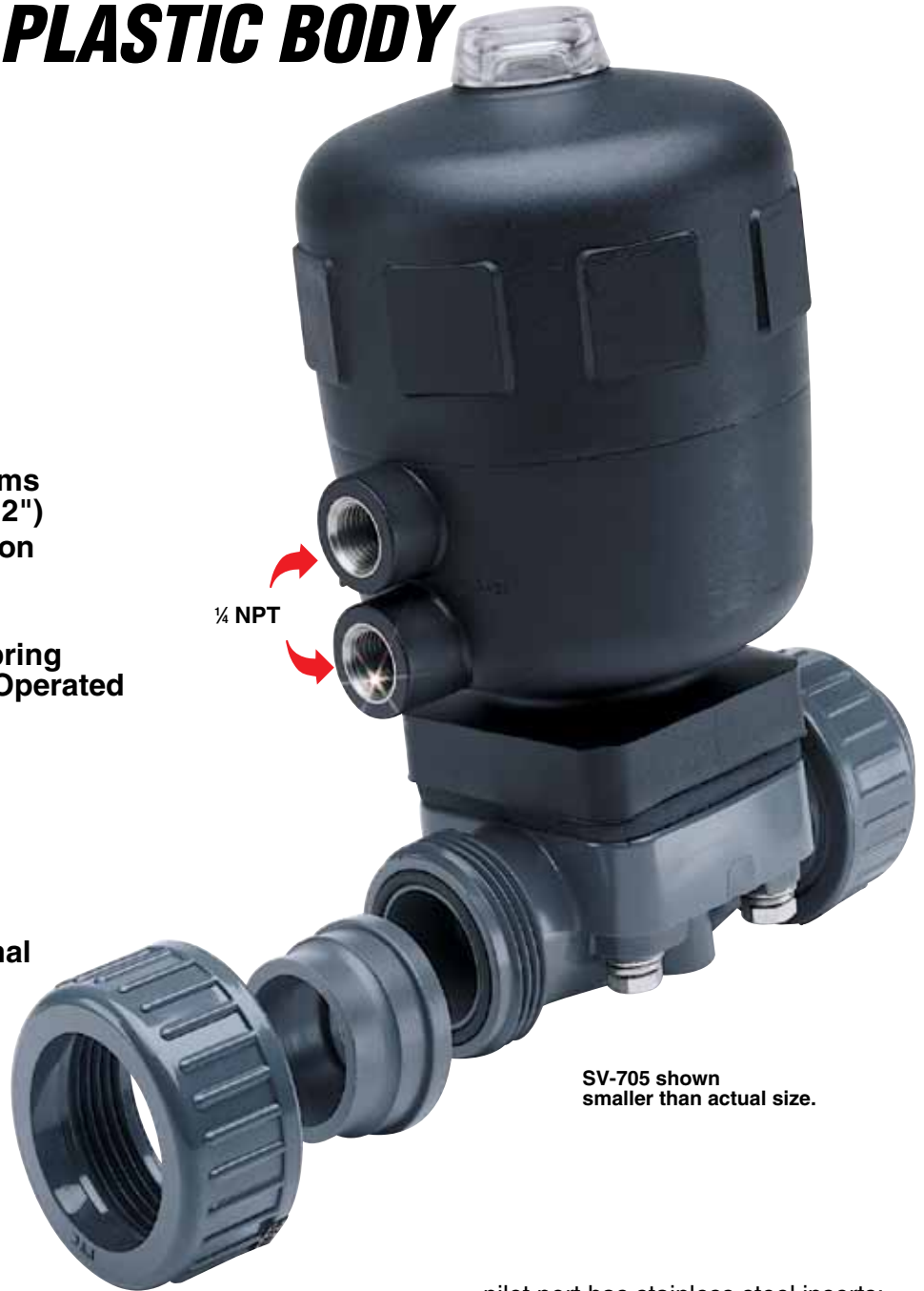


OMEGA-FLO® "BLACK MUSHROOM" 2-WAY PISTON-OPERATED DIAPHRAGM VALVE WITH PLASTIC BODY

SV-700 Series



- ✓ For Use in Plastic Systems from 15 to 50mm (½ to 2")
- ✓ Optical Position Indication
- ✓ High Flow Rate
- ✓ PVC (Socket Union)
- ✓ Closed or Opened by Spring Action; Pneumatically Operated
- ✓ For Contaminated and Aggressive Fluids
- ✓ Flow Direction Adjustable as Required
- ✓ Self-Draining When Appropriately Installed
- ✓ Electrical Feedback and Stroke Limitation Optional



SV-705 shown smaller than actual size.

SV-700 Series diaphragm valves are designed for use in plastic systems ranging in size from 15 to 50 mm (½ to 2"). The 2-way PVC or PVDF body and seal combination can handle ultra-pure, aggressive, viscous, or abrasive fluids. Threaded, solvent, or fusion joint end connectors link to the bodies. The glandless design of these valves makes them ideal for water treatment, reverse osmosis, ion exchange systems, or ultra-pure process plant applications. Remote control allows for use in hazardous areas.

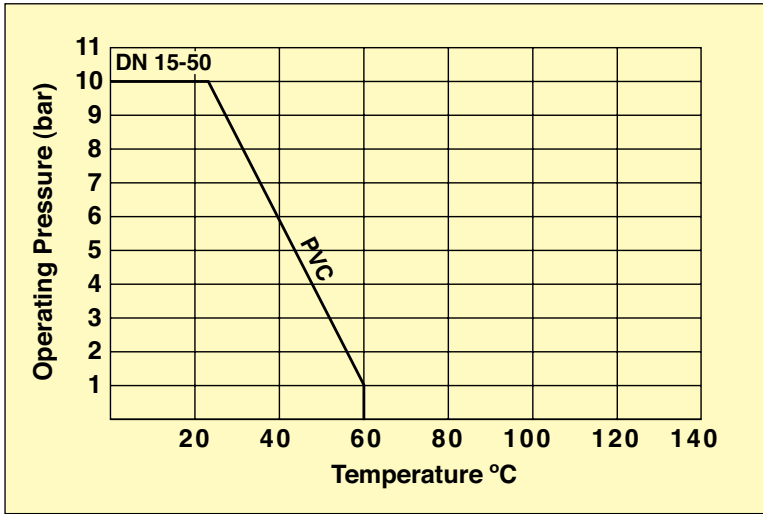
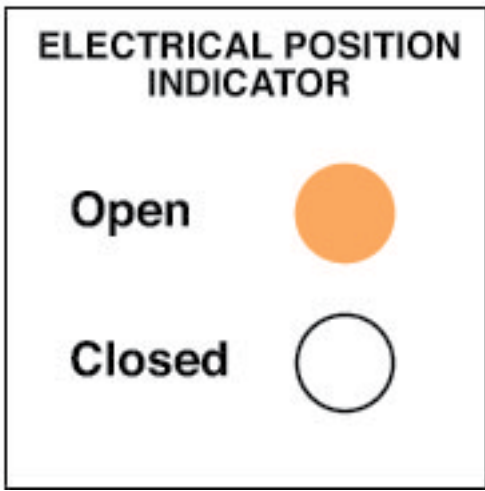
The valves are operated by connecting an external pilot fluid to the piston actuator. The diaphragm

between the actuator and the body isolates the fluid from the actuator. The valves do not require maintenance, and they can be fitted with optional accessories for position indication or stroke limitation. The actuators provide long service life and air consumption, and they come in various sizes.

The convenient location of the pilot-air connection and the unit's compact dimensions allow space-saving side-by-side installation. The

pilot port has stainless steel inserts; 3-way pilot solenoid valves can be directly mounted. For safety, spring pressure is relieved when removing the cover to change the circuit function or install options.

The body is designed to handle high flow. Flow direction can be adjusted as the application requires. A high-quality diaphragm isolates the body from the actuator and provides the total external and internal seal integrity. The valves have no dead volume and can be installed for self-draining.



SPECIFICATIONS

VALVE

Fluid Temperature
 PVC: 0 to 60°C (32 to 140°F)
Installation Connection:
 PVC: Socket union

ACTUATOR

Ambient Temperature:
 -10 to 60°C (14 to 140°F)

Control Pressure

Circuit Function Standard (Normally Closed):
Min Required: 5.5 bar (79.8 psi)
Max Admissible: 10 bar (145 psi)
EPDM diaphragm:
 $P_{ST} = 4.5$ bar (65.2 psi)
PTFE diaphragm:
 $P_{ST} = 5.0$ bar (72.5 psi)

Control Fluid: Neutral gases, air
Flow Adjustment: Variations of flow within the max and min values can be adjusted with of the piston stroke limiting feature
Electrical Position Indicator: Mechanical or inductive position sensing (open or closed); LED display; self-adjusting trip cam for closed position

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To Order					
Model No.	Orifice (inch)	C_v	Operating Pressure bar (psi)	Diaphragm	Weight kg (lb)
SV-703	1	15.7	9.6 (140)	EPDM	1.9 (4.2)
SV-705	1½	41.9	9.6 (140)	EPDM	5.4 (11.9)
SV-706	2	61.8	7.9 (115)	EPDM	5.7 (12.5)

*Comes complete with operator's manual.
 For recommended pilot valves, visit us online.
 Ordering Example: SV-705, PVC body valve, 1.5" orifice.*