

# Pneumatic Valves

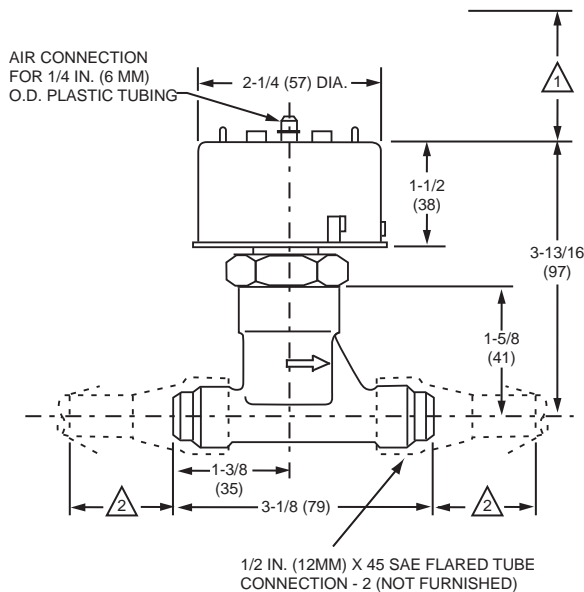
## VP527 Pneumatic Water Valve



Normally open, single-seated, high pressure valve provides proportional control of hot and/or cold water in unit air conditioners and fan coil units. Replacement devices are available for Johnson, Powers, Robertshaw, Barber-Colman, and older Honeywell devices.

- Small size permits installation where space is limited.
- Forged brass, straight-through body with end connections threaded for 45 degrees SAE flare fitting nuts.
- Spring-loaded, self-adjusting, Buna-N "V"-ring packing is replaceable without shutting system down.
- High-temperature rolling diaphragm actuator (aluminum cover) and high-temperature plastic diaphragm retaining cup with integral air connection for 1/4 in. (6 mm) O.D. plastic tubing.
- Integral seat and brass plug with removable composition disc provides equal percentage flow.
- Stainless steel stem, 3/16 in. (5 mm) diameter.

### Dimensions in inches (millimeters)



1 ALLOW 1-1/2 IN. (38 MM) MINIMUM CLEARANCE TO SERVICE VALVE, 2-1/2 IN. (63 MM) CLEARANCE TO CONNECT TUBING STRAIGHT TO CONNECTOR. IF CLEARANCE IS LESS THAN 2-1/2 IN. (63 MM), USE AN ELBOW CONNECTOR.

2 ALLOW 1-3/8 IN. (35 MM) MINIMUM CLEARANCE TO REMOVE VALVE.

M18348A

**Valve Type:** Unitary

**Body Pattern:** Two-way

**Body Pressure:** 250 psi (1724 kPa)

**Air Connections:** Push on for 1/4 in. O.D. plastic tubing

**Valve Action:** Proportional Normally Open

**Controlled Medium:** Water

**Type of End Connection:** 45 degree. SAE flare

**Operating Humidity Range (% RH):** 5 to 95% RH

**Temperature Range:** 35 F to 250 F (2 C to 121 C)

**Maximum Safe Actuator Diaphragm Temperature:** 230 F (110 C)

**Maximum Diaphragm Pressure:** 30 psi (205 kPa)

### Accessories:

- 14003648-001-Vandalism Resistant Assembly, Cover assembly with 1/8 in NPT air Connection and push-in retainer to replace standard Cover
- 14004932-001-Pneumatic Valve Adapter (M6410/M7410 linkage and a green main spring to allow to retrofit an electric actuator)

### Replacement Parts:

- 14001046-004-Cover fastener for VP525A,C; VP526A; VP527A; or VP531A,C
- 14003102-001-Replacement top assembly
- 14003297-001-Valve repack kit for VP526A, VP527A, or VP531A valves with 3/16 inch stem
- 14003475-001-Valve Rebuild Kit for 1/2 in. valve with 0.4 or 0.63 Cv
- 14003476-001-Valve Rebuild Kit for 1/2 in. valve with 1 or 1.6 Cv
- 315917-Diaphragm

Product Number	End Connection Size		Capacity		Close-off Ratings at Branch Line Pressure	Spring Range	
	(inch)	(mm)	(Cv)	(Kv)		(psi)	(kPa)
VP527A1018/U	O.D.: 1/2 in.; Nominal: 3/8 in.	O.D.: 12.7 mm; Nominal: 9.5 mm	0.63 Cv	0.54 Kv	130 psid at 13 psi	3 psi to 10 psi	21 kPa to 69 kPa
VP527A1026/U	O.D.: 1/2 in.; Nominal: 3/8 in.	O.D.: 12.7 mm; Nominal: 9.5 mm	1.0 Cv	0.86 Kv	45 psid at 13 psi	3 psi to 10 psi	21 kPa to 69 kPa
VP527A1034/U	O.D.: 1/2 in.; Nominal: 3/8 in.	O.D.: 12.7 mm; Nominal: 9.5 mm	1.6 Cv	1.38 Kv	45 psid at 13 psi	3 psi to 10 psi	21 kPa to 69 kPa
VP527A1059/U	O.D.: 1/2 in.; Nominal: 3/8 in.	O.D.: 12.7 mm; Nominal: 9.5 mm	0.63 Cv	0.54 Kv	130 psid at 8 psi	2 psi to 5 psi	14 kPa to 34 kPa
VP527A1067/U	O.D.: 1/2 in.; Nominal: 3/8 in.	O.D.: 12.7 mm; Nominal: 9.5 mm	1.0 Cv	0.86 Kv	45 psid at 8 psi	2 psi to 5 psi	14 kPa to 34 kPa
VP527A1075/U	O.D.: 1/2 in.; Nominal: 3/8 in.	O.D.: 12.7 mm; Nominal: 9.5 mm	1.6 Cv	1.38 Kv	45 psid at 8 psi	2 psi to 5 psi	14 kPa to 34 kPa