

AQUAMATIC[®] V42 SOLENOID-OPERATED SERIES DIAPHRAGM VALVES

GREAT FIT FOR WATER TREATMENT AUTOMATED PROCESS SYSTEMS





FEATURES/BENEFITS

Unique Y-pattern design with large seat opening and high lift disc permits higher flow rates at lower pressure loss than other comparable valves

All components can be serviced while the valve is in-line

Pre-formed, stress-relieved diaphragm minimizes fatigue, maximizes valve responsiveness and diaphragm lifetime

OPTIONS

Spring-assist closed Spring-assist open Limit stop for flow control Seal and diaphragm materials for special applications

Cast iron, brass, stainless steel, and

3"-4" flange drilled in accordance with

Adaptable to a wide variety of control

nitrile elastomer components for

3/4"-3" threaded [NPT or BSP]

ASA16.1 class 125, or BSP4504

unparalleled service

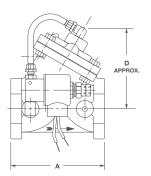
devices

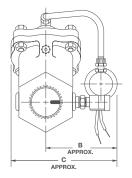
TYPICAL APPLICATIONS

Agricultural Irrigation Air Control Systems Car Wash Systems Concrete Additive Control Systems Conveyor Systems Cooling Towers Dust Suppression Fuel Handling Laundry Equipment Process Water Systems Pump Controls Turf Irrigation

DIMENSIONS

| MODEL # PIPE Size | PIPE | Cv* | DIMENSIONS (APPROXIMATE) | | | |
|----------------------|------------------|------|--------------------------|---------------------|---------------------|---------------------|
| | | | A | В | C | D |
| V42B | 3/4" | 11.4 | 3.69" (94 mm) | 3.25" (82.5 mm) | 4.63" (117.5 mm) | 3.81" (96.8 mm) |
| V42C | 1" | 12.8 | 3.69" (94 mm) | 3.25" (82.5 mm) | 4.63" (117.5 mm) | 3.81" (96.8 mm) |
| V42D | 1-1/4" | 26.5 | 4.75" (121 mm) | 3.56" (90.5 mm) | 5.31" (134.9 mm) | 4.56" (115.9 mm) |
| V42E | 1-1/2" | 32.5 | 4.75" (121 mm) | 3.56" (90.5 mm) | 5.31" (134.9 mm) | 4.56" (115.9 mm) |
| V42F | 2" | 56 | 6.62" (168 mm) | 3.94" (100.0 mm) | 6.63" (168.3 mm) | 5.94" (150.8 mm) |
| V42G | 2" | 68 | 7.37" (187 mm) | 4.19" (106.4 mm) | 7.25" (184.2 mm) | 6.25" (158.8 mm) |
| V42H | 2-1/2" | 84 | 7.37" (187 mm) | 4.19" (106.4 mm) | 7.25" (184.2 mm) | 6.25" (158.8 mm) |
| V42J | 3" (threaded) | 134 | 9.00" (229 mm) | 4.63" (117.6 mm) | 8.25" (209.5 mm) | 7.00" (117.8 mm) |
| V42J | 3" (flanged) | 134 | 10.62" (298 mm) | 4.63" (117.6 mm) | 8.25 (209.5 mm) | 7.00" (117.8 mm) |
| V42K | 4" | 275 | 11.75" (432 mm) | 5.13" (130.3 mm) | 9.50" (241.3 mm) | 8.75" (222.3 mm) |





*Cv = Flowrate (gal/minute) of water at 60°F (15.5°C) at a 1 psi pressure drop.Liters/minute = gal/minute x 3.78

CURRENT DRAIN (AMPERES)

| Voltage | Inrush | Holding |
|------------|--------|---------|
| 24V 60 Hz | 1.1 | 0.65 |
| 120V 60 Hz | 0.2 | 0.1 |
| 220V 50 Hz | 0.1 | 0.07 |
| 12 VDC | - | 0.6 |
| 24 VDC | - | 0.3 |

OPERATING SPECIFICATIONS

Working Pressure 125 psi (8.6 bar)

Max Temperature 150°F (65°C)

Energized to open:

Line pressure is directed through the solenoid to the upper diaphragm chamber, closing the valve. Activating the solenoid vents the upper diaphragm chamber, allowing the valve to open.

Energized to close:

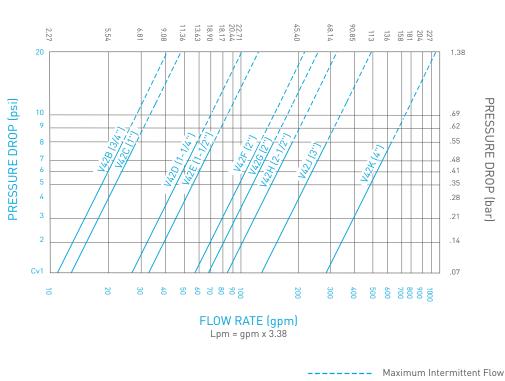
The upper diaphragm chamber is vented, allowing the valve to open. Activating the solenoid pressurizes the upper diaphragm chamber, closing the valve.

FLOW RATE (m³/hr)

Independent control pressure:

An independent source of pressure is used through the solenoid to control the diaphragm valve.

PERFORMANCE DATA



Maximum Continuous Flow



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