

SV Series True Union Solenoid Valves

1/4" TO 1" PVC AND CPVC

1/2" TO 1" PVDF



KEY FEATURES

- Available in PVC, CPVC and NEW Natural PVDF
- Corrosion-Resistant Polyester Coil
- No Pressure Differential Required for Operation
- Both 1/2" Conduit or SJ-Type Cord Electrical Connection
- 120 VAC Standard
- Normally Closed Design

OPTIONS

- 12 VAC, 24 VAC, 220 VAC, 12 VDC, 24 VDC

OPERATING PARAMETERS

¹For optimum valve performance, differential pressure must not exceed 90 psi.

²Flow velocity must not exceed 5 ft/sec

³Units are not to be operated 'on' continuously

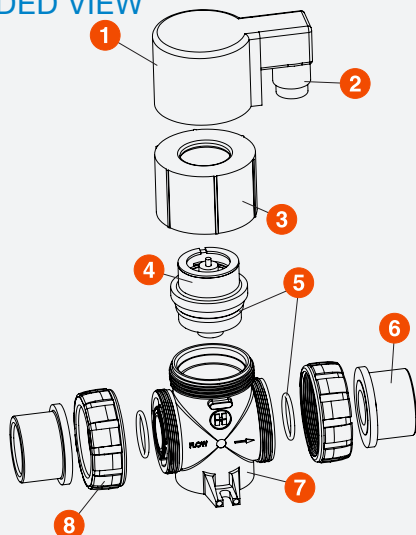
⁴Maximum back pressure 25 psi.

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- Natural PVDF per ASTM D3222 Type 1
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

EXPLODED VIEW



SELECTION CHART

| SIZE | MATERIAL | END CONNECTION | SEALS | PRESSURE RATING |
|------------------------------|-------------|----------------------------|-------------|--|
| 1/4" – 1" * (DN8 – DN25) | PVC or CPVC | Socket and Threaded | FPM or EPDM | 150 PSI @ 70°F 10 Bar @ 21°C Non-Shock |
| 1/2" – 1" * (DN15 – DN25) | PVDF | Socket Fusion and Threaded | FPM | |

* PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21.
For optimum performance, differential poeasure must not exceed 90 psi across the valve.

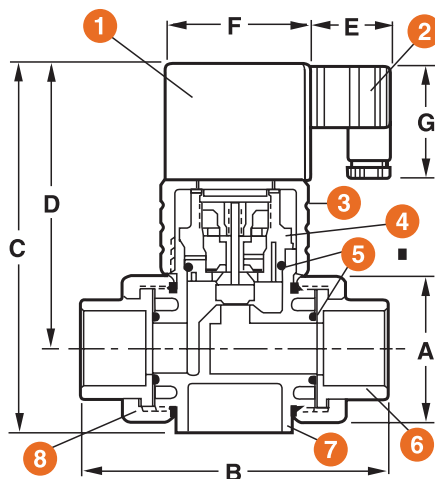
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TECHNICAL INFORMATION, CONTINUED

PARTS LIST

1. Solenoid Coil
2. Electrical Connector
3. Bonnet Nut
4. Seal Cartridge
5. O-Rings
6. End Connector
7. Body
8. Union Nut



DIMENSIONS PVC, CPVC

| SIZE in / DN | A in / mm | B in / mm | C in / mm | D in / mm | E in / mm | F in / mm | G in / mm | WEIGHT lbs / kg |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|
| 1/4 / 8 | 2.25 / 57 | 5.30 / 135 | 6.30 / 160 | 4.60 / 117 | 1.60 / 41 | 2.60 / 66 | 2.00 / 51 | 2.79 / 1.27 |
| 1/2 / 15* | 2.25 / 57 | 5.30 / 135 | 6.30 / 160 | 4.60 / 117 | 1.60 / 41 | 2.60 / 66 | 2.00 / 51 | 2.81 / 1.27 |
| 3/4 / 20* | 2.63 / 67 | 5.50 / 140 | 6.60 / 168 | 5.10 / 130 | 1.60 / 41 | 2.60 / 66 | 2.00 / 51 | 3.01 / 1.37 |
| 1 / 25* | 2.63 / 67 | 5.50 / 140 | 6.60 / 168 | 5.10 / 130 | 1.60 / 41 | 2.60 / 66 | 2.00 / 51 | 3.03 / 1.37 |

DIMENSIONS PVDF

| SIZE in / DN | A in / mm | B in / mm | C in / mm | D in / mm | E in / mm | F in / mm | G in / mm | WEIGHT lbs / kg |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|
| 1/2 / 15* | 2.23 / 57 | 5.00 / 127 | 6.40 / 163 | 5.09 / 129 | 1.60 / 41 | 2.60 / 66 | 2.00 / 51 | 3.00 / 1.36 |
| 3/4 / 20* | 2.60 / 66 | 5.44 / 138 | 6.61 / 168 | 5.13 / 130 | 1.60 / 41 | 2.60 / 66 | 2.00 / 51 | 3.20 / 1.45 |
| 1 / 25* | 2.60 / 66 | 5.44 / 138 | 6.61 / 168 | 5.13 / 130 | 1.60 / 41 | 2.60 / 66 | 2.00 / 51 | 3.22 / 1.46 |

Dimensions are subject to change without notice – consult factory for installation information

* Metric End Connections Available In: BSP – Straight Thread, BSP TR – Tapered Thread and Metric Socket

Cv VALUES

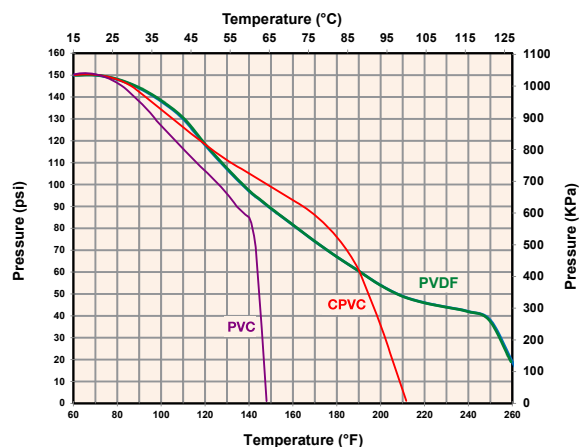
| SIZE in / DN | Cv VALUES |
|-----------------|-----------|
| 1/4 / 8 | 1.3 |
| 1/2 / 15 | 2.3 |
| 3/4 / 20 | 3.2 |
| 1 / 25 | 3.8 |

PRESSURE LOSS CALCULATION FORMULA

$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop
 Q = Flow in GPM
 C_v = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



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