



## AV Series Angle Valves

1/4" TO 2" PVC,  
1/4" TO 1" CPVC

### KEY FEATURES

- Available in PVC and CPVC
- Space Saving Angle Design
- Fine Pitch Stem Threads for Precision Adjustment
- Perfect for Throttling and Changing Flow Direction

### MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM O-Ring Seals

## TECHNICAL INFORMATION

### SELECTION CHART

| SIZE*                     | MATERIAL | END CONNECTION      | SEALS | PRESSURE RATING                              |
|---------------------------|----------|---------------------|-------|--|
| 1/4" – 2"<br>(DN8 – DN50) | PVC      | Threaded or Flanged | FPM   | 150 PSI @ 70°F<br>10 Bar @ 21°C<br>Non-Shock |
| 1/4" – 1"<br>(DN8 – DN25) | CPVC     | Threaded or Flanged | FPM   | 150 PSI @ 70°F<br>10 Bar @ 21°C<br>Non-Shock |

\* Available with threaded ends to BS21.

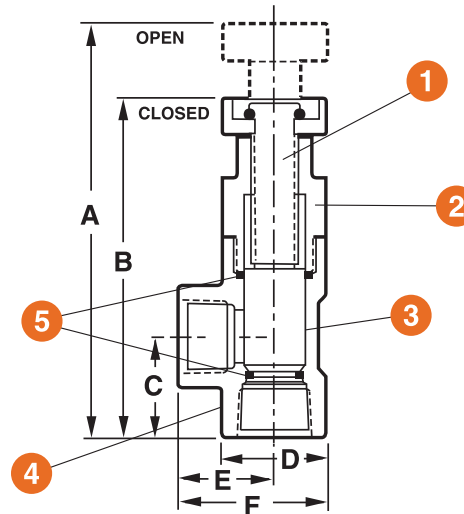
# AV Series Angle Valves

1/4" TO 2" PVC & CPVC MATERIALS

## TECHNICAL INFORMATION, CONTINUED

### PARTS LIST

1. Stem
2. Bonnet
3. Piston
4. Body
5. O-Ring



### DIMENSIONS

| SIZE<br>in / DN | A<br>in / mm | B<br>in / mm | C<br>in / mm | D<br>in / mm | E<br>in / mm | F<br>in / mm | WEIGHT<br>lb / kg |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| 1/4 / 8         | 3.63 / 92    | 3.19 / 81    | 1.06 / 27    | 1.00 / 25    | .88 / 22     | 1.38 / 35    | .13 / .06         |
| 1/2 / 15        | 5.88 / 149   | 4.94 / 125   | 1.50 / 38    | 1.38 / 35    | 1.44 / 37    | 2.06 / 52    | .38 / .17         |
| 3/4 / 20        | 6.38 / 162   | 5.19 / 132   | 1.88 / 48    | 1.56 / 40    | 1.63 / 41    | 2.44 / 62    | .50 / .23         |
| 1 / 25          | 7.44 / 189   | 6.19 / 157   | 2.06 / 52    | 1.94 / 49    | 1.94 / 49    | 2.75 / 70    | .63 / .29         |
| 1-1/2 / 40      | 10.25 / 260  | 8.31 / 211   | 2.63 / 67    | 2.63 / 67    | 2.44 / 62    | 3.75 / 95    | 1.75 / .80        |
| 2 / 50          | 11.81 / 300  | 9.44 / 240   | 3.00 / 76    | 3.13 / 80    | 2.88 / 73    | 4.44 / 113   | 2.63 / 1.19       |

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

### Cv VALUES

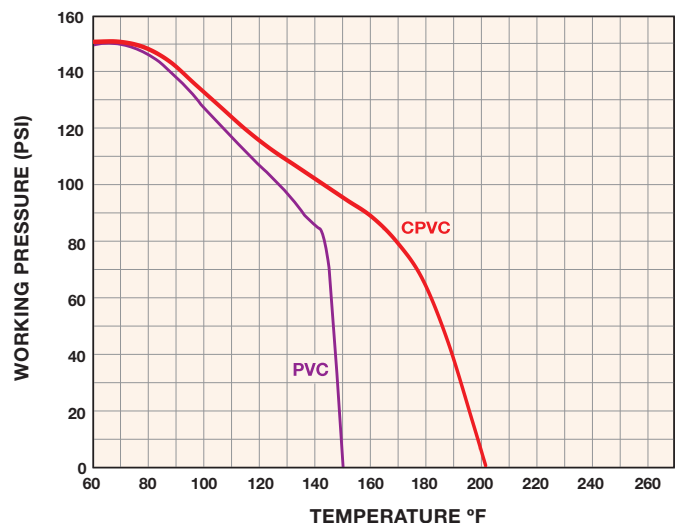
| SIZE<br>in / DN | Cv VALUES |
|-----------------|-----------|
| 1/4 / 8         | 1.0       |
| 1/2 / 15        | 5.0       |
| 3/4 / 20        | 10.0      |
| 1 / 25          | 16.0      |
| 1-1/2 / 40      | 45.0      |
| 2 / 50          | 70.0      |

### PRESSURE LOSS CALCULATION FORMULA

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

$\Delta P$  = Pressure Drop  
 $Q$  = Flow in GPM  
 $C_v$  = Flow Coefficient

### OPERATING TEMPERATURE/PRESSURE



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