



SERIES AP 3672, 3675 & 4675

1/4 & 3/8 INCH METERING VALVES

Ultraclean Springless Diaphragm Design

- Fine adjustment control
12 to 15 turns of the knob to wide open
- Positive shut off (AP 3672 and AP 3675 only)
- Metal seal to atmosphere
- Operating pressure to 145 psig (10 bar)
- Surface finish
15 Ra max/10 Ra (10, 7 & 5 Ra max options)
- One wetted moving part –a diaphragm
- Multi-port options available
- Stainless steel 316L VAR construction
- AP 3672 flow to 10 slpm, AP 3675 flow to 40 slpm, & AP 4675 flow to 70 slpm at 30 psig (2 bar) N₂
- Installation and operating instructions available at www.aptech-online.com

Pressure Ratings

| | |
|--------------------|-----------------------------|
| Operating pressure | vacuum to 145 psig (10 bar) |
| Proof pressure | 150% of operating pressure |
| Burst pressure | 300% of operating pressure |

Other Parameters

| | |
|-------------------------|--|
| Inlet/outlet connectors | 1/4 or 3/8 inch face seal or tube weld, FA 1.125 inch C seal (AP 3672 & AP 3675 only) |
| Flow coefficient (Cv) | AP 3672 0 to 0.02 AP 3675 0 to 0.08 AP 4675 0 to 0.15 |
| Internal volume | 0.06 in ³ (1.07 cm ³) |
| Operating temperature | -40° to +160°F (-40° to +71°C) |
| Surface finish | 15 µin. Ra max/10 µin. Ra (0.4/0.25 µm) standard 10 µin (0.25 µm) and 7 µin (0.18 µm) Ra max optional |
| Inboard leakage | 2 x 10 ⁻¹⁰ sccs |
| Outboard leakage | 2 x 10 ⁻⁹ sccs |
| Leakage across seat | bubble tight (AP 3672 & AP 3675 only) |

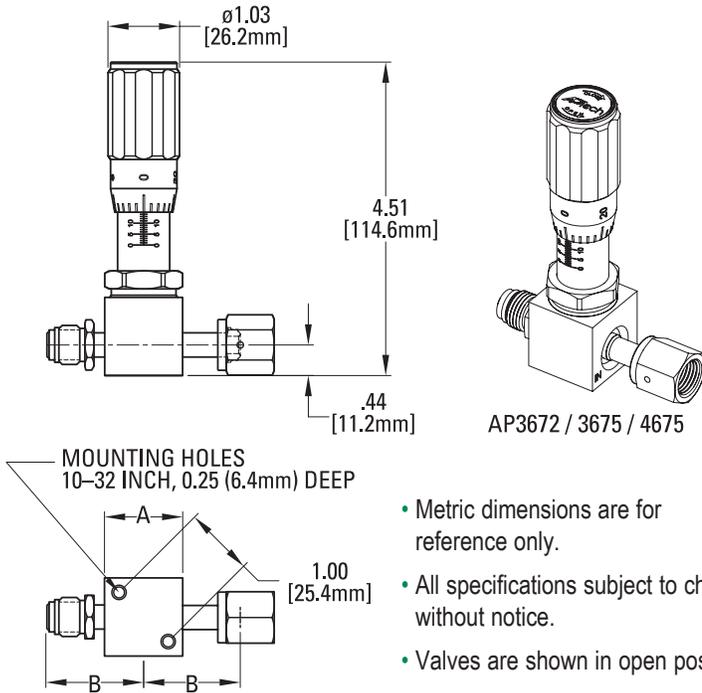
Materials

| | Series AP 3672 and 3675 | Series AP 4675 |
|--------------|--------------------------------|--------------------------------|
| Wetted Parts | | |
| Body | SS 316L secondary remelt | SS 316L secondary remelt |
| Diaphragm | Co-Ni-Cr alloy / UNS R30003 | Co-Ni-Cr alloy / UNS R30003 |
| Finish | electropolished and passivated | electropolished and passivated |
| Seat | PCTFE | SS 316L |

All specifications subject to change without notice.

THE ULTIMATE IN ULTRACLEAN FLOW METERING

DIMENSIONAL INFORMATION



- Metric dimensions are for reference only.
- All specifications subject to change without notice.
- Valves are shown in open position.

PORTING CONFIGURATIONS

| CONNECTION | A | | B | |
|------------|---------|------|-------|------|
| | inch | mm | inch | mm |
| FV4, MV4 | 1.12 SQ | 28.4 | 1.390 | 35.3 |
| TW4 | 1.12 SQ | 28.4 | 1.060 | 26.9 |
| FV6, MV6 | 1.12 SQ | 28.4 | 1.930 | 49.0 |
| TW6 | 1.12 SQ | 28.4 | 1.325 | 33.7 |

All dimensions in inches (mm). Metric dimensions are for reference only.

CAUTION: Product selection is the sole responsibility of the user, regardless of any recommendations or suggestions made by the factory. The user shall make selections based upon their own analysis and testing with regard to function, material compatibility and product ratings. Proper installation, operation and maintenance are also required to assure safe, trouble free performance.

ORDERING INFORMATION

Sample Order Number **AP 3672SM 2PW FV4 FV4**

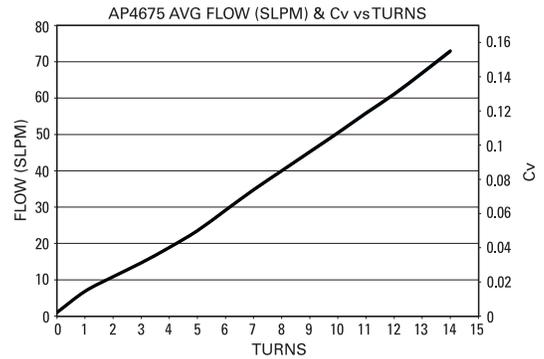
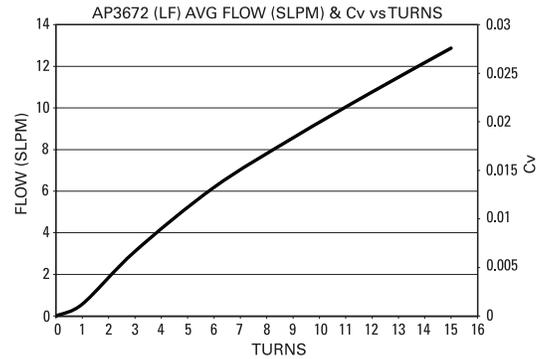
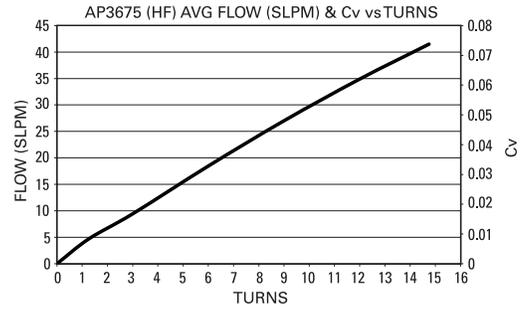
| | |
|-----------------------------------|--|
| AP 3672 Series | AP 3672 AP 3675 AP 4675 |
| S Material | S = Stainless steel (SS) |
| M Surface Finish Options | M = 10 μ in. Ra max V = 7 μ in. Ra max X = 5 μ in. Ra max |
| 2PW Ports | 2PW = 2 ports welded 3PW = 3 ports welded 4PW = 4 ports welded |
| Porting Designation Option | X = Letter code for available porting option Refer to porting options in AP30 data sheet. |

FV4 FV4 | Connections Inlet / Outlet or ① ② ③ ④

FV4 = 1/4 inch face seal female
MV4 = 1/4 inch face seal male
TW4 = 1/4 inch tube stub weld
FV6 = 3/8 inch face seal female
MV6 = 3/8 inch face seal male
TW6 = 3/8 inch tube stub weld

Options

1.75 = 1.75 inch face to face TW4, TW6
FA = 1.125 inch C seal (AP 3672 & AP 3675 only)



AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.