



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 Optional surface finishes meet or exceed 5µin Ra average
Inboard leakage	2 x 10 ⁻¹⁰ sccs
Outboard leakage	2 x 10 ⁻⁹ sccs
Leakage across seat	bubble tight (AP 3672 & AP 3675 only)

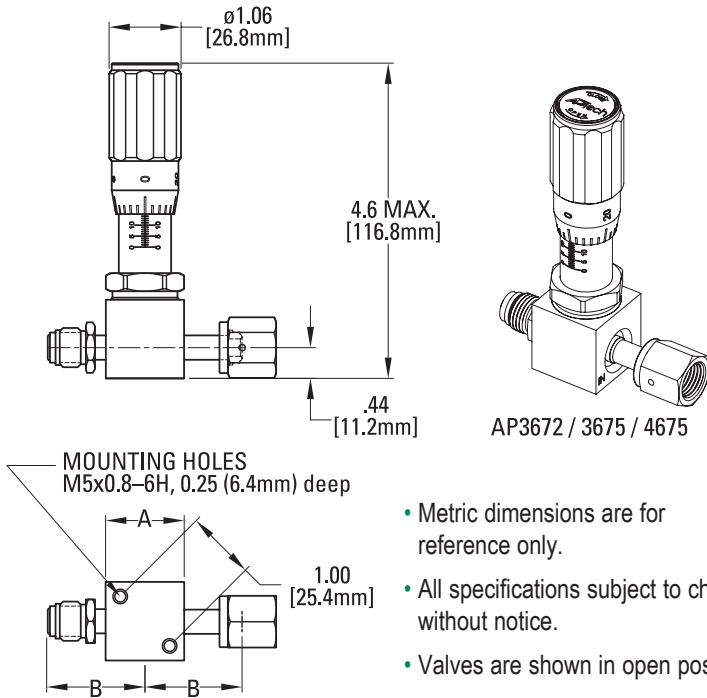
Materials

	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



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**

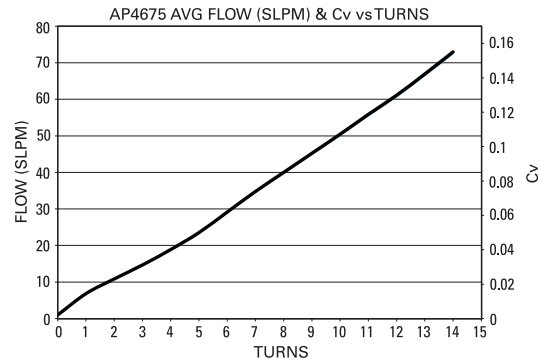
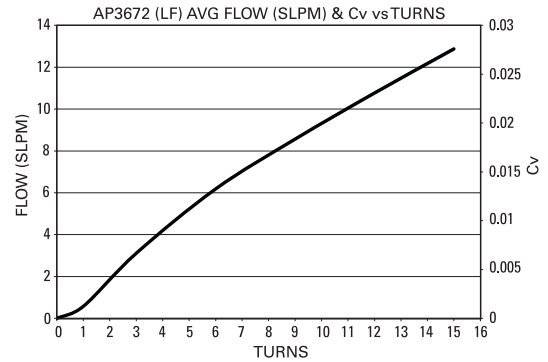
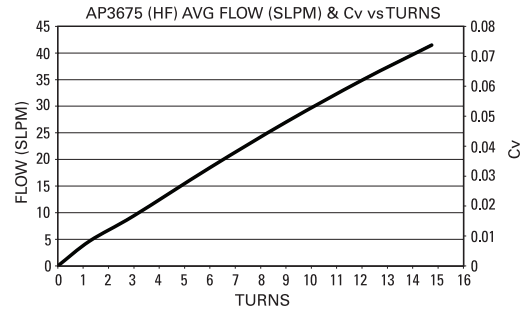
AP 3672 Series	AP 3672 AP 3675 AP 4675
S Material	S = Stainless steel (SS)
M Surface Finish Options	M = 10 μ in. Ra max V = 7 μ in. Ra max X = 5 μ in. Ra max
2PW Ports	2PW = 2 ports welded 3PW = 3 ports welded 4PW = 4 ports welded
Porting Designation Option	X = Letter code for available porting option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