Series AZ 3672, 3675 & 4675
1/4 Inch Metering Valves
Ultraclean Springless Diaphragm Design

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

### Pressure Ratings

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure</td>
<td>vacuum to 145 psig (10 bar)</td>
</tr>
<tr>
<td>Proof pressure</td>
<td>150% of operating pressure</td>
</tr>
<tr>
<td>Burst pressure</td>
<td>300% of operating pressure</td>
</tr>
</tbody>
</table>

### Other Parameters

<table>
<thead>
<tr>
<th>Inlet/outlet connectors</th>
<th>1/4 or 3/8 inch face seal or tube weld</th>
</tr>
</thead>
</table>
| Flow coefficient (Cv)   | AZ 3672: 0 to 0.02
                          | AZ 3675: 0 to 0.08
                          | AZ 4675: 0 to 0.15 |
| Internal volume         | 0.06 in³ (1.07 cm³)                   |
| Operating temperature   | -40° to +160°F (-40° to +71°C)         |
| Surface finish          | 10 µin. (0.25 µm) Ra                  |
| Inboard leakage         | 2 x 10⁻¹⁰ scccs                       |
| Outboard leakage        | 2 x 10⁻⁹ scccs                        |
| Leakage across seat     | bubble tight (AZ 3672 & AZ 3675 only) |

### Materials

<table>
<thead>
<tr>
<th>Wetted Parts</th>
<th>Series AZ 3672 and 3675</th>
<th>Series AZ 4675</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>SS 316L</td>
<td>SS 316L</td>
</tr>
<tr>
<td>Diaphragm</td>
<td>Co-Ni-Cr alloy / UNS R30003</td>
<td>Co-Ni-Cr alloy / UNS R30003</td>
</tr>
<tr>
<td>Finish</td>
<td>electropolished and passivated</td>
<td>electropolished and passivated</td>
</tr>
<tr>
<td>Seat</td>
<td>PCTFE</td>
<td>SS 316L</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.
THE ULTIMATE IN ULTRACLEAN FLOW METERING

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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

MV4 is fixed, no hex nut.

Only available with the same type fitting inlet and outlet.

Available with any combination of welded fitting.

1.75 = 1.75” face to face TW4 PW porting

(1.75 is standard for 2P)

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.

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

Sample Order Number

AZ 3672S 2PW MV4 MV4

AZ 3672 | Series
AZ 3672
AZ 3675
AZ 4675

S | Material
S = Stainless steel (SS)

2PW | Ports
2P = 2 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 AZ30 data sheet.

Porting
P
PW

Connections
Inlet / Outlet
1 2 3 4

Options
1.75 = 1.75” face to face TW4 PW porting
(1.75 is standard for 2P)

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.