**PRECISION METERING VALVE PMV**

High-Precision Metering Valve featuring sintered element, in a compact and modular form.

**Features**
- resistant to dirt compared to needle valve
- self-cleaning by O-ring design
- high service life owing to sintered body
- available separately as valve body, or completely mounted with block as linear valve
- brass with stainless steel design
- sealing material NBR
- leak-tight when closed
- counter-clockwise closure
- various knobs available:
  - standard knob with 14 turn spindle
  - digital knob with 1 499 divisions and locking ring
- hysteresis-free spindle
- with threaded connector (M9 x 0.75) for mounting on a front panel

**Operation / Usage**
For precise metering of gas flow rates, e.g. in laboratories, metering of burner systems.

**Approvals**
Company certified according to ISO 9001, ISO 22000 and PED 2014/68/EU Module H

**Dimensions in mm**
## PRECISION METERING VALVE PMV

![Image of Precision Metering Valve PMV](image-url)

### Flow rates

**Precision Metering Valve PMV1**

<table>
<thead>
<tr>
<th>Model</th>
<th>PMV1</th>
<th>PMV3</th>
<th>PMV5</th>
<th>PMV7</th>
<th>PMV9</th>
<th>PMV11</th>
<th>PMV13</th>
<th>PMV15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flow rate [ml/min] 1 bar</td>
<td>95</td>
<td>300</td>
<td>860</td>
<td>3 240</td>
<td>6 440</td>
<td>11 650</td>
<td>14 900</td>
<td>20 690</td>
</tr>
<tr>
<td>Max. flow rate [ml/min] 2 bar</td>
<td>240</td>
<td>750</td>
<td>2 130</td>
<td>8 130</td>
<td>15 440</td>
<td>21 920</td>
<td>28 000</td>
<td>37 350</td>
</tr>
<tr>
<td>Max. flow rate [ml/min] 4 bar</td>
<td>700</td>
<td>2 150</td>
<td>6 190</td>
<td>20 480</td>
<td>34 420</td>
<td>42 310</td>
<td>55 950</td>
<td>69 660</td>
</tr>
<tr>
<td>Gases</td>
<td>Argon, Helium, Compressed air, Hydrogen, Methane, Natural gas, Nitrogen, Oxygen, Propane or other liquefied gases, Carbon dioxide</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Versions</td>
<td>as valve body (see fig. above) or completely mounted with block of stainless steel (1.4305) as linear valve (see fig. on front page)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotary knob</td>
<td>options: standard knob or digital knob with 1499 divisions and locking ring</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetted materials</td>
<td>housing and metal turned parts made of brass, brass nickel-plated and stainless steel, valve seal NBR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connections</td>
<td>G 1/4 female</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 54.3 g - valve body</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20 °C / -4 °F up to approx. +60 °C / +140 °F (depending on gas and valve sealing)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Standard volume flow [Nm³/min]**

- 1 bar
- 2 bar
- 4 bar

**Spindle rotations**

![Spindle rotations graph](image-url)
PRECISION METERING VALVE PMV

Precision Metering Valve PMV3

Precision Metering Valve PMV5

Standard volume flow [Nm³/min]
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

Spindle rotations

1 bar
2 bar
4 bar

0 50 100 150 200 250 300 350 400 450 500 600 650 700
1 2 3 4 5

1 bar
2 bar
4 bar

0 50 100 150 200 250 300 350 400 450 500 600 650 700
1 2 3 4 5
Precision Metering Valve PMV

**Precision Metering Valve PMV7**

- **Standard Volume Flow [Nm³/min]**
  - (1013 mbar / 14.7 psi, 0 °C / 32 °F)

- **Spindle Rotations**

**Precision Metering Valve PMV9**

- **Standard Volume Flow [Nm³/min]**
  - (1013 mbar / 14.7 psi, 0 °C / 32 °F)

- **Spindle Rotations**

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PRECISION METERING VALVE PMV

**Precision Metering Valve PMV11**

Standard volume flow [Nl/min]
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

<table>
<thead>
<tr>
<th>Spindle rotations</th>
<th>1 bar</th>
<th>2 bar</th>
<th>4 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
</tbody>
</table>

**Precision Metering Valve PMV13**

Standard volume flow [Nl/min]
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

<table>
<thead>
<tr>
<th>Spindle rotations</th>
<th>1 bar</th>
<th>2 bar</th>
<th>4 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
</tbody>
</table>