FEATURES

- **Sentronic** is a highly dynamical 3-way proportional valve with digital control.
- **Sentronic** stands for:
  - Digital communication and control
  - Display (integrated)
  - Direct operated valve
  - Dynamic behaviour (high speed)
- A special feature of the **Sentronic** is its DaS software supplied for optimum adjustment over PC and viewing of setpoint and feedback signals.
- Other functions are valve diagnostics, parameter setting and maintenance.
- The valve's outlet pressure can also be adjusted over the integrated display and the function buttons.

GENERAL

Fluids

Air or neutral gases filtered at 50 µm, without condensate, lubricated or unlubricated

Maximum allowable pressure (MAP)

6 to 13 bar

Pressure range

0-3 bar, 0-6 bar, 0-10 bar

Fluid temperature

0°C to +60°C

Ambient temperature

0°C to +50°C

Flow (Qv at 6 bar)

470 to 1300 l/min (ANR)

Setpoint

0 - 10 V (impedance 100 kΩ)

0 - 20 mA / 4 - 20 mA (impedance 250 Ω)

Hysteresis

< 1% of span

Linearity

< 0.5% of span

Repeatability

< 0.5% of span

Minimum setpoint

100 mV (0.2 mA/4.2 mA) with shutoff function

Minimum outlet pressure

1% of span

CONSTRUCTION

Body

aluminium

Internal parts

POM (polyacetal)

Seals

NBR (nitrile) and FPM (fluoroelastomer)

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>nominal diameter DN (mm)</th>
<th>stabilised voltage *</th>
<th>max. power (W)</th>
<th>max. current (mA)</th>
<th>insulation class</th>
<th>degree of protection</th>
<th>electrical connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>24 V +/- 10%</td>
<td>21</td>
<td>850</td>
<td>H</td>
<td>IP 65</td>
<td>5-pin M12 connector (not supplied)</td>
</tr>
<tr>
<td>8</td>
<td>40</td>
<td>40</td>
<td>1650</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Max. ripple: 10 %

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Ø ports</th>
<th>Ø orifice DN (mm)</th>
<th>Kᵥ coefficient (Nm³/h)</th>
<th>flow at 6 bar (l/min - ANR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 1/8</td>
<td>4</td>
<td>0.43</td>
<td>470</td>
</tr>
<tr>
<td>G 1/4</td>
<td>8</td>
<td>1.2</td>
<td>1300</td>
</tr>
<tr>
<td>G 3/8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Test conditions according to ISO 8778: temperature: 20 °C, relative inlet pressure: 6 bar, relative outlet pressure: 5 bar

CATALOGUE NUMBER

Nnn: Nominal diameter

608 = DN 4mm
609 = DN 8mm

C: Connection

0 = G 1/8 (DN 4), G 1/4 (DN 8)
1 = G 1/4 (DN 4), G 3/8 (DN 8)
2 = Subbase

G 1/8 (DN 4), G 1/4 (DN 8)
5 = NPT 1/8 (DN 4), NPT 1/4 (DN 8)
6 = NPT 1/4 (DN 4), NPT 3/8 (DN 8)

D: Digital output

0 = Pressure switch output
1 = Feedback output 0 - 10 V
2 = Feedback output 0 - 20 mA
3 = Feedback output 4 - 20 mA

A: Analog output

0 = 0 - 10 V
1 = 0 - 20 mA
2 = 4 - 20 mA

S: Setpoint

0 = 0 - 10 V
1 = 0 - 20 mA
2 = 4 - 20 mA

All leaflets are available on: www.asco.com
**DIMENSIONS** (mm), **WEIGHT** (kg)

**Inline version**

**DN 4**

Weight: 0.56 kg

Fixing holes: M4 thread

M4 hole for earth screw

Connector

Programming interface

Hole for M4 screw

G1/8", G1/4"

G1/8", G1/4"

Fixing holes: M4 thread

M4 hole for earth screw

Connector

Programming interface

Hole for M4 screw

G1/8", G1/4"

G1/8", G1/4"

*(v) Remove the pre-installed screws to use the through holes to mount the valve.

**DN 8**

Weight: 1.13 kg

Fixing holes: M4 thread

M4 hole for earth screw

Connector

Programming interface

Hole for M4 screw

G1/4", G3/8"

G1/4", G3/8"

Configurator - CAD Files
DIMENSIONS (mm), WEIGHT (kg)  

Subbase version

**DN 4**

Weight: 0.56 kg

![Diagram of DN 4 Subbase version with dimensions and features highlighted.]

**DN 4**

Subbase

![Diagram of DN 4 Subbase with features highlighted.]

All leaflets are available on: www.asco.com
**DIMENSIONS (mm), WEIGHT (kg)**

Subbase version

**DN 8**

Weight: 1.13 kg

**Programming interface**

Hole for M4 screw

**Connector**

DN 8

Subbase

**Hole for M4 screw**
CONNECTOR PINNING / CABLE WIRING

<table>
<thead>
<tr>
<th>pin</th>
<th>description</th>
<th>5-wire cable (2m)</th>
<th>6-wire cable (5m, 10m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24V voltage supply</td>
<td>brown</td>
<td>brown</td>
</tr>
<tr>
<td>2</td>
<td>Analog setpoint input</td>
<td>white</td>
<td>white</td>
</tr>
<tr>
<td>3</td>
<td>Supply ground</td>
<td>blue</td>
<td>green</td>
</tr>
<tr>
<td>4</td>
<td>Analog output (feedback)</td>
<td>black</td>
<td>pink</td>
</tr>
<tr>
<td>5</td>
<td>Digital output (pressure switch)</td>
<td>grey</td>
<td>grey</td>
</tr>
</tbody>
</table>

(*) A 6-wire cable with separate analog ground is used for cable lengths over 2 m to set off the voltage drop for the setpoint.

ACCESSORIES

<table>
<thead>
<tr>
<th>description</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight M12 female connector, 5 pins, with screw terminals</td>
<td>88100256</td>
</tr>
<tr>
<td>Right-angle M12 female connector, 5 pins, with screw terminals</td>
<td>88100725</td>
</tr>
<tr>
<td>Supply cable 2 m, 2 x 0,25 mm², straight connector</td>
<td>88100726</td>
</tr>
<tr>
<td>Supply cable 2 m, 2 x 0,25 mm², right-angle connector</td>
<td>88100727</td>
</tr>
<tr>
<td>Supply cable 5 m, 6 x 0,56 mm², straight connector</td>
<td>88100728</td>
</tr>
<tr>
<td>Supply cable 5 m, 6 x 0,56 mm², right-angle connector</td>
<td>88100729</td>
</tr>
<tr>
<td>Supply cable 10 m, 6 x 0,56 mm², straight connector</td>
<td>88100730</td>
</tr>
<tr>
<td>Supply cable 10 m, 6 x 0,56 mm², right-angle connector</td>
<td>88100731</td>
</tr>
<tr>
<td>RS 232 cable converter; 2m cable with 9-pin Sub-D (plug connector)</td>
<td>88100732</td>
</tr>
<tr>
<td>RS 232 cable converter; 2 m cable with 9-pin Sub-D (screw connector)</td>
<td>88100970</td>
</tr>
<tr>
<td>Joinable subbase for 608 (DN 4 mm) with G 3/8&quot;, common supply and exhaust</td>
<td>35500558</td>
</tr>
<tr>
<td>Joinable subbase for 609 (DN 8 mm) with G 1/2&quot;, common supply and exhaust</td>
<td>35500559</td>
</tr>
<tr>
<td>DaS Light: Data Acquisition Software for SentronicD - basic parameters - CD-ROM</td>
<td>99100110</td>
</tr>
<tr>
<td>DaS Expert: Data Acquisition Software for SentronicD - full parameters - CD-ROM</td>
<td>99100111</td>
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