Control Valve 8043
with integrated positioner
GS 3 series  1/2“ up to 10“

Pneumatic control valve for control and switching of neutral through to highly aggressive media in process engineering, chemical industry and for plant equipment.

- Integrated positioner
- Lowest possible weight
- Fast response
- High Cv-values
- Tight shut-off
- Lower cost piston actuator

Technical Information

<table>
<thead>
<tr>
<th>Design</th>
<th>ANSI flange wafer (self-aligning)</th>
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<tbody>
<tr>
<td>Nominal sizes</td>
<td>1/2“ up to 4“</td>
</tr>
<tr>
<td>Nominal pressure acc. DIN 2401 for flanges with facing type B</td>
<td>580 psi (fits also to 145 up to 365 psi)</td>
</tr>
<tr>
<td>ANSI 150</td>
<td>1/2“ - 6“</td>
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<tr>
<td>ANSI 300</td>
<td>8“ - 10“</td>
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<tr>
<td>Nominal pressure acc. ASME B16.5 RF for “raised face” flanges</td>
<td>10K</td>
</tr>
<tr>
<td>ANSI 150</td>
<td>1/2“ - 6“</td>
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<tr>
<td>ANSI 300</td>
<td>1/2“ - 10“</td>
</tr>
<tr>
<td>Fluid Temperature</td>
<td>Carbon steel body</td>
</tr>
<tr>
<td>Ambient temperature*</td>
<td>14°F up to +572°F (option +662°F)</td>
</tr>
<tr>
<td>Rangeability / Characteristic analog positioner</td>
<td>25 : 1</td>
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<tr>
<td>Digital positioner</td>
<td>30 : 1</td>
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<tr>
<th>Leakage</th>
<th>Disc pair</th>
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<tr>
<td>% of Kvs IEC 60534-4 EN 12266-1</td>
<td>Carbon-stainless steel SFC STN2-disc</td>
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<td>&lt; 0,0005</td>
<td>IV-S1 D E IV</td>
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<tr>
<td>EN 12266-1</td>
<td>STN 2-disc</td>
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* Please consider the limitation of use of the positioner!
Cvs-values see data sheet 8001.

Materials

<table>
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<tr>
<th>Body</th>
<th>stainless steel 318 / 316 Ti or CF8M / 316 L</th>
<th>carbon steel ASTM A216 / ASTM A572-50</th>
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<td>Intermediate pipe</td>
<td>stainless steel 316 Ti</td>
<td>carbon steel ASTM A572-50</td>
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<td>Bonnet</td>
<td>brass plated (actuator ø 2“, ø 3“)</td>
<td>aluminium corrosion proof (actuator ø 5“)</td>
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<td>Springs</td>
<td>stainless steel 304 (actuator ø 2“, ø 3“)</td>
<td>spring steel wire C, coated (actuator ø 5“)</td>
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<td>Packing</td>
<td>PTFE (carbon filled), spring SST 301</td>
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<td>Actuating stem</td>
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<td>Bellow</td>
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<td>Sliding disc</td>
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<td>SFC-disc (max. +572°F) STN2-disc</td>
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<td>Coupling ring for discs</td>
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<td>Optical position indicator</td>
<td>PA Trogamid (transparent)</td>
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Positioner

For technical information of our positioners please refer to the corresponding data sheets.

Schubert & Salzer Inc., 4601 Corporate Drive N.W., Suite 100 Concord, NC 28027, Ph.: (704) 789 0169, Fax: (704) 792 9783 info@schubertsalzerinc.com, www.schubertsalzerinc.com
Control Valve 8043-GS3

with integrated positioner

Admissible Pressures
(For temperatures of up to 100°F for ANSI-classes and up to 250°F for PN-classes)
digital positioner, Type 8049
(also on-off valves and valves with other side-mounted positioner)
carbon - stainless steel coated
SFC - stainless steel coated

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<thead>
<tr>
<th>Size</th>
<th>actuator</th>
<th>max. differential pressure</th>
<th>min. plot pressure</th>
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p/p- and i/p-positioner, Type 8047
carbon - stainless steel coated
SFC - stainless steel coated

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<tr>
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For temperatures exceeding 100°F (ANSI) or 250°F (PN): consider operation limits

Digital positioner, Type 8049
(also on-off valves and valves with other side-mounted positioner)
carbon - stainless steel coated
SFC - stainless steel coated

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Pressure limits ANSI and DIN in psi

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<th>ANSI 300</th>
<th>PN16</th>
<th>PN40</th>
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STN 2

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Control Valve 8043-GS3
with integrated positioner

Admissible Pressures
(For temperatures of up to 100°F for ANSI-classes and up to 250°F for PN-classes)

For temperatures exeeding 100°F (ANSI) or 250°F (PN): consider operation limits

Actuator 3” double acting
without safety position
digital positioner, type 8049-4 wire

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<th>Nominal size</th>
<th>Max. differential pressure at actual pilot pressure [psi]</th>
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Actuator 5" double acting
without safety position
digital positioner, type 8049-4 wire

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Pressure limits ANSI and DIN in psi

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<th>PN16</th>
<th>PN40</th>
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<td>P max. stainless steel</td>
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Disc pair: carbon/SFC-stainless steel coated
Disc pair: STN

Pressure limits ANSI and DIN in psi

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Control Valve 8043-GS3

with integrated positioner

- integrated positioner
- versatile bonnet
- PTFE-Packing (self-adjusting)
- flangeless body design
- fixed disc
- sliding disc, Inversion of pilot function by rotating function unit by 180°C
- weep hole
- tube for packing
- piston rod, roller polished
- bellows (opt.)
- coupling ring for sliding disc
### Application limitations for GS3 valves in stainless steel

These pressures must not be exceeded for GS-valves from the GS3-series made of stainless steel, even though the actuator power might allow it.

#### ANSI150

<table>
<thead>
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<th>DN</th>
<th>100°C</th>
<th>120°C</th>
<th>210°C</th>
<th>300°C</th>
<th>390°C</th>
<th>480°C</th>
<th>570°C</th>
<th>660°C</th>
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</thead>
<tbody>
<tr>
<td>1/2&quot; - 5&quot;</td>
<td>275.0</td>
<td>265.0</td>
<td>235.0</td>
<td>215.0</td>
<td>200.0</td>
<td>175.0</td>
<td>150.0</td>
<td>120.0</td>
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<tr>
<td>6&quot;</td>
<td>230.0</td>
<td>230.0</td>
<td>230.0</td>
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<td>200.0</td>
<td>175.0</td>
<td>150.0</td>
<td>120.0</td>
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<tr>
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<td>150.0</td>
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<td>135.0</td>
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Limitation for SFC-sliding discs: 570°F

#### ANSI300

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<th>480°C</th>
<th>570°C</th>
<th>660°C</th>
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</thead>
<tbody>
<tr>
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<td>720.0</td>
<td>695.0</td>
<td>610.0</td>
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<td>485.0</td>
<td>460.0</td>
<td>440.0</td>
</tr>
<tr>
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<td>695.0</td>
<td>695.0</td>
<td>610.0</td>
<td>560.0</td>
<td>520.0</td>
<td>485.0</td>
<td>460.0</td>
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<td>480.0</td>
<td>480.0</td>
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Limitation for SFC-sliding discs: 570°F

#### PN40

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<thead>
<tr>
<th>Size</th>
<th>Sliding unit: carbon/SFC - stainless steel, coated</th>
<th>Sliding unit: STN2</th>
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<td>max. admissible pressures for GS3-valves</td>
<td>max. admissible pressures for GS3-valves</td>
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<tr>
<td>2 1/2&quot;</td>
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Limitation for SFC-sliding discs: 570°F
Application limitations for GS3 valves in carbon steel

These pressures must not be exceeded for GS-valves from the GS3-series made of carbon steel, even though the actuator power might allow it.

### ANSI150

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<th>300°F</th>
<th>390°F</th>
<th>480°F</th>
<th>570°F</th>
</tr>
</thead>
<tbody>
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<td>230.0</td>
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<td>150.0</td>
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Limitation for SFC-sliding discs: 570°C

### ANSI300

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<th>390°F</th>
<th>480°F</th>
<th>570°F</th>
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<td>655.0</td>
<td>635.0</td>
<td>610.0</td>
<td>285.0</td>
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<td>695.0</td>
<td>675.0</td>
<td>655.0</td>
<td>635.0</td>
<td>610.0</td>
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<td>480.0</td>
<td>480.0</td>
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Limitation for SFC-sliding discs: 570°C

### PN40

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</tr>
<tr>
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<td>220</td>
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<td>175</td>
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<td>10&quot; (only 235 psi)</td>
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<td>115</td>
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Limitation for SFC-sliding discs: 570°F
Control Valve 8043-GS3

with integrated positioner

Ordering Number System

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<tr>
<td>E G GS3 - flangeless design acc. ANSI 150</td>
<td>F G GS3 - flangeless design acc. ANSI 300</td>
<td>G GS3 - flangeless design acc. DIN, 145 - 580 psi</td>
<td>0 Spring to close</td>
<td>8 piston 3&quot; (NPT)</td>
<td>M to state if some sections 7-16 are quoted</td>
<td>D</td>
<td></td>
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<tr>
<td>9 G Steel ASTM A572-50 alternatively ASTM A216 stainless steel CF8M/316Ti or 318/316L C-steel ASTM A572-50 or ASTM A216, short version stainless steel CF8M/316Ti or 318/316L, short design body carbon steel ASTM A216 body cover stainless steel</td>
<td>1 Spring to open</td>
<td>9 piston 5&quot; (NPT)</td>
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<tr>
<td>2 without</td>
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</table>


<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>- Carbon material STN2/STN3</td>
<td>S SFC</td>
<td>- Stainless steel/ c-stellite STN2-plate (only in combination with the position &quot;9&quot;)</td>
<td>- Stainless steel/ c-stellite STN3-plate (only in combination with the position &quot;9&quot;)</td>
<td>100 % (Stand.) red. af 63 %</td>
<td>1 red. af 40 %</td>
<td>3 red. af 25 %</td>
<td>6 red. af 16 %</td>
</tr>
</tbody>
</table>

Ordering example: 8043/050VFE101M-1--2-Z8
GS3-control valve with piston actuator, long design, 2", ANSI#150, body material stainless steel, NC, actuator Ø 3"; bellow, disc pair; carbon material - stainless steel 316 Ti coated, fixed disc stainless steel 316 Ti coated, Cv-value 16 % (red.), linear characteristics, integrated i/p-positioner with position indicator
Control Valve 8043-GS3
with integrated p/p and i/p - positioner, Type 8047

Dimensions and Weights

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<tr>
<th>Size</th>
<th>Actuator Ø</th>
<th>A</th>
<th>L</th>
<th>D</th>
<th>I</th>
<th>Stroke p/p</th>
<th>Stroke i/p</th>
<th>Stroke digital</th>
<th>H (lbs)</th>
<th>Weight (lbs)</th>
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