## 4/2, 5/2 AND 5/3 SOLENOID VALVES
### DIRECT OR PILOT OPERATED

### Product Index

<table>
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<th>Function</th>
<th>min. P (bar)</th>
<th>max. P (bar)</th>
<th>Temperature min. (°C)</th>
<th>max. (°C)</th>
<th>Pipe connections</th>
<th>Series</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td><strong>BRASS BODY</strong></td>
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<tr>
<td>4/2</td>
<td>0</td>
<td>9</td>
<td>-20</td>
<td>+70</td>
<td>1/4 - 3/8</td>
<td>342</td>
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<td>5/2</td>
<td>0.7</td>
<td>17</td>
<td>-20</td>
<td>+85</td>
<td>1/4</td>
<td>344</td>
<td>3</td>
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<tr>
<td>5/2 (3/2 NC)</td>
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<td>10</td>
<td>-40</td>
<td>+60</td>
<td>monostable/bistable, IP67, IEC 61508</td>
<td>1/4</td>
<td>551</td>
</tr>
<tr>
<td><strong>ALUMINIUM BODY</strong></td>
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<tr>
<td>5/2-5/3</td>
<td>2</td>
<td>10</td>
<td>-25</td>
<td>+60</td>
<td>monostable/bistable, IEC 61508</td>
<td>1/4 - 1/2</td>
<td>551-553</td>
</tr>
<tr>
<td>5/2 (3/2 NC) - 5/3</td>
<td>2</td>
<td>10</td>
<td>-25</td>
<td>+60</td>
<td>NAMUR, monostable/bistable, IP67, IEC 61508</td>
<td>1/4 - 1/2</td>
<td>551-553</td>
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<td>5/2 (3/2 NC)</td>
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<td>8</td>
<td>-20</td>
<td>+60</td>
<td>NAMUR, monostable/bistable, IP65</td>
<td>1/4</td>
<td>521</td>
</tr>
<tr>
<td><strong>ACCESSORIES AND OPTIONS</strong></td>
<td></td>
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<td></td>
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<tr>
<td>Supply rail for series 551/553 (5/2-5/3)</td>
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</table>

(Potentially explosive atmospheres, see page: III)

(www.asco.com) Solenoid Valves / Pneumatic Valves (32) 

All leaflets are available on: www.asco.com

Direct or Pilot Operated Solenoid Valves / Pneumatic Valves - I
## Quick Selection Chart - 4/2, 5/2 AND 5/3 SOLENOID VALVES

<table>
<thead>
<tr>
<th>Pipe Connections</th>
<th>Body Material</th>
<th>Max. Operating Pressure Differential (bar)</th>
<th>Fluid Temperature Range</th>
<th>Power Coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>- internal thread</td>
<td>- stainless steel</td>
<td>- air</td>
<td>- ac</td>
<td>- dc</td>
</tr>
<tr>
<td>- NAMUR interface</td>
<td>- orifice size (mm)</td>
<td>- oil</td>
<td>- water</td>
<td>- other liquids</td>
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</tbody>
</table>

### 4/2 - MONOSTABLE FUNCTION

<table>
<thead>
<tr>
<th>Orifice Size (mm)</th>
<th>0.7</th>
<th>1.7</th>
<th>17</th>
<th>20</th>
<th>-20</th>
<th>+70</th>
<th>20</th>
<th>-342</th>
<th>1</th>
</tr>
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<tbody>
<tr>
<td>Brass</td>
<td>4.8</td>
<td>6.4</td>
<td>9</td>
<td>9</td>
<td>-</td>
<td>-</td>
<td>10,5</td>
<td>11,2</td>
<td>16,7</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>9.5</td>
<td>6.4</td>
<td>9</td>
<td>9</td>
<td>-</td>
<td>-</td>
<td>10,5</td>
<td>11,2</td>
<td>16,7</td>
</tr>
<tr>
<td>Aluminum</td>
<td>19</td>
<td>9.5</td>
<td>9</td>
<td>9</td>
<td>-</td>
<td>-</td>
<td>10,5</td>
<td>11,2</td>
<td>16,7</td>
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</table>

### 4/2 - BISTABLE FUNCTION

<table>
<thead>
<tr>
<th>Orifice Size (mm)</th>
<th>0.7</th>
<th>1.7</th>
<th>17</th>
<th>20</th>
<th>-20</th>
<th>+70</th>
<th>20</th>
<th>-342</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>4.8</td>
<td>6.4</td>
<td>9</td>
<td>9</td>
<td>-</td>
<td>-</td>
<td>10,5</td>
<td>11,2</td>
<td>16,7</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>13</td>
<td>6.4</td>
<td>10</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>10,5</td>
<td>11,2</td>
<td>16,7</td>
</tr>
<tr>
<td>Aluminum</td>
<td>6</td>
<td>2</td>
<td>8</td>
<td>8</td>
<td>-</td>
<td>-</td>
<td>2,5</td>
<td>3</td>
<td>521</td>
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### 5/2 (3/2 NC) - MONOSTABLE OR BISTABLE FUNCTION

<table>
<thead>
<tr>
<th>Orifice Size (mm)</th>
<th>0.7</th>
<th>1.7</th>
<th>17</th>
<th>20</th>
<th>-20</th>
<th>+70</th>
<th>20</th>
<th>-342</th>
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<tbody>
<tr>
<td>Brass</td>
<td>6.2 (0)</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>551</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>13</td>
<td>6.2 (0)</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>553</td>
</tr>
<tr>
<td>Aluminum</td>
<td>6</td>
<td>2 (0)</td>
<td>8</td>
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### 5/2 (3/2 NC) - MONOSTABLE FUNCTION - CERTIFIED IEC 61508 FUNCTIONAL SAFETY DATA

<table>
<thead>
<tr>
<th>Orifice Size (mm)</th>
<th>0.7</th>
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<th>17</th>
<th>20</th>
<th>-20</th>
<th>+70</th>
<th>20</th>
<th>-342</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>6.2 (0)</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>551</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>13</td>
<td>6.2 (0)</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>553</td>
</tr>
<tr>
<td>Aluminum</td>
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<td>2 (0)</td>
<td>8</td>
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### 5/3 - W1, PRESSURE HELD, AND W3, PRESSURE RELEASE

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<thead>
<tr>
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<th>17</th>
<th>20</th>
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<th>+70</th>
<th>20</th>
<th>-342</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel</td>
<td>6</td>
<td>2 (0)</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>551</td>
</tr>
<tr>
<td>Aluminum</td>
<td>13</td>
<td>6.2 (0)</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>553</td>
</tr>
</tbody>
</table>

(Potentially explosive atmospheres, see page: III)

All leaflets are available on: [www.asco.com](http://www.asco.com)
<table>
<thead>
<tr>
<th>page</th>
<th>series</th>
<th>number</th>
<th>gas/dusts</th>
<th>operators</th>
<th>power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>342</td>
<td>-</td>
<td>651</td>
<td>IIIC T115°C Dc IP65X</td>
<td>SG (XM5)</td>
<td>AC (-)</td>
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<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC T6..T4 Gc / IIIC IP65 T85°C..T135°C Dc</td>
<td>3 G Ex e mb</td>
<td>AC (-)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC T6..T4 Gb / IIIC Db IP66/67</td>
<td>3 D Ex tc</td>
<td>AC (-)</td>
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<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC T6..T4 Gb / IIIC Db IP66/67</td>
<td>2 G Ex db</td>
<td>3 G Ex e mb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC T6..T4 Gb / IIIC Db IP66/67</td>
<td>2 G Ex mb</td>
<td>3 D Ex tb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC T6..T3 Gb / IIIC Db IP66/67</td>
<td>2 G Ex eb</td>
<td>3 D Ex tb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC Gb / IIIC Db IP67</td>
<td>2 G Ex mb</td>
<td>3 D Ex mb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC T6..T4 Ga, IIICT85°C..T135°C Da</td>
<td>1G Ex ia</td>
<td>3 G Ex e mb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>551</td>
<td>IIIC T6 Ga, T85°C Db IP67</td>
<td>1G Ex ia</td>
<td>3 G Ex e mb</td>
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<tr>
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<td>IIIC T6 Ga, T85°C IP66/IP67 Db</td>
<td>1G Ex ia</td>
<td>3 G Ex e mb</td>
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<tr>
<td></td>
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<td>IIIC T6 Gb / IIIC T85°C IP66/IP67 Db</td>
<td>1G Ex ia</td>
<td>3 G Ex e mb</td>
</tr>
</tbody>
</table>

All leaflets are available on: www.asco.com
FEATURES

- Brass bodied 4/2 slide disc valves, single or dual solenoid, ideally suited to control double acting cylinders
- Solenoid valves with integrated pilot and slide disc mechanism
- Direct lift solenoid valves have spring loaded sliding resilients for absolute tight shut-off
- The solenoid valves satisfy all relevant EU directives

GENERAL

Differential pressure: See «SPECIFICATIONS» [1 bar = 100 kPa]
Maximum viscosity: 65 cSt (mm²/s)
Response time: 20 - 40 ms

<table>
<thead>
<tr>
<th>Fluids (+)</th>
<th>Temperature range (TS)</th>
<th>Seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, water, oil</td>
<td>-20°C to +70°C</td>
<td>NBR (nitrile)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID

(+): Ensure that the compatibility of the fluids in contact with the materials is verified.

Body: Brass
Core tube: Stainless steel
Core and plugnut: Stainless steel
Core spring: Stainless steel
Seat: PTFE - reinforced
Seals: NBR
Discs: NBR
Slide: PA
Slide cups: FPM
Shading coil: Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class: F
Connector: Spade plug (cable Ø 6-10 mm)
Connector specification: ISO 4400 / EN 175301-803, form A
Electrical safety: IEC 335
Electrical enclosure protection: Moulded IP65 (EN 60529)
(Other voltages and 60 Hz on request)

<table>
<thead>
<tr>
<th>Prefix option</th>
<th>Power ratings</th>
<th>Operator temperature range (TS)</th>
<th>Replacement coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>(VA) (VA) (W)</td>
<td>(C) 230 V/50 Hz</td>
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</tr>
<tr>
<td></td>
<td>110 33,6 15,4</td>
<td>-20 to +75</td>
<td>400525-117</td>
</tr>
<tr>
<td></td>
<td>240 43 20</td>
<td>-20 to +50</td>
<td>400525-217</td>
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</table>

(1) Refer to the dimensional drawings on the following page.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Pipe size</th>
<th>Orifice size</th>
<th>Flow coefficient Kv</th>
<th>Operating pressure differential (bar)</th>
<th>Power coil (W)</th>
<th>Catalogue number</th>
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</thead>
<tbody>
<tr>
<td>NPT (mm)</td>
<td>(m³/h) / (l/min)</td>
<td>max. (PS)</td>
<td>air (+) water (+) oil (+)</td>
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<td></td>
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<tr>
<td>1/4</td>
<td>4.8 0.6 9.9</td>
<td>0 9 7 7 20</td>
<td></td>
<td>SCB342C001</td>
<td>MS V</td>
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<tr>
<td>3/8</td>
<td>4.8 0.6 9.9</td>
<td>0 9 7 7 20</td>
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<td>SCB342C003</td>
<td>MS -</td>
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</tbody>
</table>

Solenoil pilot operated - spring return (monostable)

<table>
<thead>
<tr>
<th>Pipe size</th>
<th>Orifice size</th>
<th>Flow coefficient Kv</th>
<th>Operating pressure differential (bar)</th>
<th>Power coil (W)</th>
<th>Catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT (mm)</td>
<td>(m³/h) / (l/min)</td>
<td>max. (PS)</td>
<td>air (+) water (+) oil (+)</td>
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<td></td>
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<tr>
<td>1/4</td>
<td>4.8 0.05 0.8</td>
<td>0 9 - 9 - 15,4 -</td>
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<td>SCB342C020</td>
<td>V -</td>
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<td>4.8 0.18 3 0 9 - 9 - 15,4 -</td>
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<td></td>
<td>SCB342C022</td>
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</table>

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Direct or Pilot Operated Solenoid Valves (4/2) - 1
OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) seals and discs. Use the appropriate optional suffix letter for identification.
- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Electrical enclosures according to “NEMA” standards are available
- Compliance with “UL”, “CSA” and other local approvals available on request
- Adjustable flow controls
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valves have 2 mounting holes in body
- Pipe connection identifier is B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

<table>
<thead>
<tr>
<th>catalogue number</th>
<th>spare parts kit no.</th>
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<tbody>
<tr>
<td>SCB342C001/003</td>
<td>C306191</td>
</tr>
<tr>
<td>SCB342C020/022</td>
<td>C306193</td>
</tr>
</tbody>
</table>

(1) Standard prefixes/suffixes are also applicable to kits.
- Not available

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>prefix</th>
<th>basic number</th>
<th>suffix</th>
<th>voltage</th>
<th>pipe thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>B 342 C 001</td>
<td>-</td>
<td>230V/50 Hz</td>
<td>-</td>
</tr>
<tr>
<td>SC</td>
<td>B 342 C 003</td>
<td>MS</td>
<td>115V/50 Hz</td>
<td>-</td>
</tr>
<tr>
<td>SC</td>
<td>B 342 C 020</td>
<td>V</td>
<td>48V/50 Hz</td>
<td>-</td>
</tr>
<tr>
<td>SC</td>
<td>B 342 C 022</td>
<td>-</td>
<td>230V/50 Hz</td>
<td>-</td>
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ORDERING EXAMPLES KITS:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>C306191</td>
<td>V</td>
</tr>
<tr>
<td>C306193</td>
<td>-</td>
</tr>
</tbody>
</table>

DIMENSIONS (mm), WEIGHT (kg)

TYPE 01
Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

<table>
<thead>
<tr>
<th>catalogue number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>X</th>
<th>weight</th>
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</thead>
<tbody>
<tr>
<td>SCB342C001/003</td>
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<td>56</td>
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<td>30</td>
<td>64</td>
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<td>66</td>
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<td>1,2</td>
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<tr>
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<td>56</td>
<td>33</td>
<td>30</td>
<td>64</td>
<td>50</td>
<td>66</td>
<td>24</td>
<td>84</td>
<td>167</td>
<td>166</td>
<td>51</td>
<td>1,7</td>
</tr>
</tbody>
</table>

(1) Including coil and connector.
FEATURES

- Rugged forged brass bodied solenoid valves designed to provide maximum flow
- Solenoid valves have poppet type seats and discs to provide tight sealing
- Main valve discs are power driven in both directions by line pressure (ΔP min. 0.7/1.7 bar)
- The solenoid valves satisfy all relevant EU directives

GENERAL

Differential pressure
Maximum viscosity 65 cSt (mm²/s)
Response time 100 - 1000 ms

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, water, oil</td>
<td>- 20°C to + 85°C</td>
<td>NBR (nitrile)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID

(+) Ensure that the compatibility of the fluids in contact with the materials is verified

Body Brass
Core tube Stainless steel
Core and plugnut Stainless steel
Core spring Stainless steel
Seat Brass
Seals NBR
Discs and poppets NBR
Discs holders POM
Pilot cartridge POM
Shaft gasket Copper alloy
Shading coil Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 6-10 mm)
Connector specification ISO 4400 / EN 175301-803, form A
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=) : 24V - 48V
(Other voltages and 60 Hz on request) AC (-) : 24V - 48V - 115V - 230V / 50 Hz

<table>
<thead>
<tr>
<th>prefix</th>
<th>option</th>
<th>power ratings</th>
<th>ambient temperature range (TS)</th>
<th>replacement coil</th>
<th>type (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- (VA)</td>
<td>- (VA)</td>
<td>- (W)</td>
<td>- (C)</td>
<td>-</td>
<td>230 V/50 Hz</td>
</tr>
<tr>
<td>SC</td>
<td>55</td>
<td>23</td>
<td>10,5</td>
<td>-</td>
<td>9/11,2</td>
</tr>
<tr>
<td></td>
<td>78</td>
<td>35</td>
<td>16,7</td>
<td>-</td>
<td>12/16,8</td>
</tr>
</tbody>
</table>

(1) Refer to the dimensional drawings on the following page.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe size</th>
<th>exhaust pipe size</th>
<th>orifice size</th>
<th>flow coefficient Kv</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
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<tbody>
<tr>
<td>NPT</td>
<td>NPT (mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td>min.</td>
<td>max. (PS)</td>
<td>air/water (+)</td>
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<tr>
<td>1/4</td>
<td>3/8</td>
<td>6,4</td>
<td>0,7</td>
<td>11,6</td>
<td>0,7</td>
<td>1,7</td>
</tr>
<tr>
<td>3/8</td>
<td>3/8</td>
<td>6,4</td>
<td>0,7</td>
<td>11,6</td>
<td>0,7</td>
<td>1,7</td>
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<td>1/2</td>
<td>1/2</td>
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<td>1,9</td>
<td>31,6</td>
<td>0,7</td>
<td>1,7</td>
</tr>
<tr>
<td>1/2</td>
<td>1/2</td>
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<td>1,9</td>
<td>31,6</td>
<td>0,7</td>
<td>1,7</td>
</tr>
<tr>
<td>3/4</td>
<td>1</td>
<td>19</td>
<td>4,8</td>
<td>80</td>
<td>0,7</td>
<td>1,7</td>
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<tr>
<td>1</td>
<td>1</td>
<td>19</td>
<td>4,8</td>
<td>80</td>
<td>0,7</td>
<td>1,7</td>
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<tr>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Solenoid pilot operated - air differential return (monostable)

All leaflets are available on: www.asco.com
OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) seals and discs. Use the appropriate optional suffix letter for identification
- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Electrical enclosures according to “NEMA” standards are available
- Compliance with “UL”, “CSA” and other local approvals available on request
- Bistable function and special valves are available for dry-air gas, continuous cycling, clickless and quiet operation
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Important: A minimum operating pressure differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area and unrestricted
- Solenoid valves have 2 mounting holes in body
- Pipe connection identifier is B = NPT (ANSI 1.20.3)
- Compliance with “UL”, “CSA” and other local approvals available on request
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

catalogue number | spare part no.
------------------|------------------
SCB344A070       | C302709 C302731
SCB344B000/B001 | C302710 C302732
SCB344A072/A074 | C302711 C302733
SCB344C025/C027 | C302712 C302734
SCB344A076/A078 | C302713 C302735
SCB344B029/B031 | C302714 C302736

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
<th>basic number</th>
<th>weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
<td></td>
<td></td>
<td>C302-711</td>
<td>116</td>
</tr>
<tr>
<td>01</td>
<td>SC</td>
<td></td>
<td>V</td>
<td>C302-735</td>
<td>154</td>
</tr>
<tr>
<td>02</td>
<td>SC</td>
<td></td>
<td>MO</td>
<td>C302-731</td>
<td>230</td>
</tr>
<tr>
<td>02</td>
<td>SC</td>
<td></td>
<td>V</td>
<td>C302-711</td>
<td>110</td>
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ORDERING EXAMPLES KITS:

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
<th>basic number</th>
<th>weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
<td></td>
<td></td>
<td>C302-711 V</td>
<td>116</td>
</tr>
<tr>
<td>01</td>
<td>SC</td>
<td></td>
<td>V</td>
<td>C302-735</td>
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<td>SC</td>
<td></td>
<td>MO</td>
<td>C302-731</td>
<td>230</td>
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<tr>
<td>02</td>
<td>SC</td>
<td></td>
<td>V</td>
<td>C302-711</td>
<td>110</td>
</tr>
</tbody>
</table>

DIMENSIONS (mm), WEIGHT (kg)

TYPE 01-02
Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

Type 01: AC/DC: SCB344A070/072/074/076/078
AC: SCB344B000/B001/C025/C027/B029/B031
Type 02: DC: SCB344B000/B001/C025/C027/B029/B031

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>option</th>
<th>catalogue number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>V</th>
<th>X</th>
<th>weight</th>
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</thead>
<tbody>
<tr>
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<td>SC</td>
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<td>80</td>
<td>50</td>
<td>30</td>
<td>80</td>
<td>108</td>
<td>45</td>
<td>18</td>
<td>36</td>
<td>79</td>
<td>103</td>
<td>120</td>
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<td>48</td>
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<td>40</td>
<td>28</td>
<td>80</td>
<td>54</td>
<td>2,4</td>
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<tr>
<td>02</td>
<td>SC</td>
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<td>SCB344B000/001</td>
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<td>50</td>
<td>30</td>
<td>80</td>
<td>108</td>
<td>45</td>
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<td>79</td>
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<td>120</td>
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<td>61</td>
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<td>SC</td>
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<td>SCB344B025/027</td>
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<td>01</td>
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<td>30</td>
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<td>54</td>
<td>83</td>
<td>123</td>
<td>140</td>
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<td>8,6</td>
<td>99</td>
<td>97</td>
<td>66</td>
<td>53</td>
<td>116</td>
<td>74</td>
<td>8,5</td>
</tr>
</tbody>
</table>

(1) Standard prefixes/suffixes are also applicable to kits.
- Not available
**SPECIFICATIONS**

**5/2-5/3**

**Material in Contact With Fluid**

- **Electrical enclosure protection**: Moulded IP65 (EN 60529)
- **Electrical safety**: IEC 335
- **Electrical safety (EN)**: IEC 61508 Standard (2010 route 2, version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1

**Power Ratings**

<table>
<thead>
<tr>
<th>Prefix option</th>
<th>(VA)</th>
<th>(VA)</th>
<th>(W)</th>
<th>(W)</th>
<th>(C°)</th>
<th>Operator ambient temperature range (TS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>6</td>
<td>3.5</td>
<td>2.5</td>
<td>2.5</td>
<td>3</td>
<td>230 V/50 Hz, 24 V DC</td>
</tr>
<tr>
<td>SC</td>
<td>15</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>2.5</td>
<td>230 V/50 Hz, 24 V DC</td>
</tr>
</tbody>
</table>

**Flow Coefficient (Kv)**

- **5/2 - Solenoid air pilot operated - spring return (monostable)**
  - 1/4: 0.75, 1.25
  - 1/2: 3.15, 5.25

**Flow Coefficient (Kv)**

- **5/2 - Solenoid air pilot operated and return (bistable)**
  - 1/4: 0.75, 1.25
  - 1/2: 3.15, 5.25

**Flow Coefficient (Kv)**

- **5/3 - W1 - Pressure held, solenoid air pilot and return**
  - 1/4: 0.75, 1.25
  - 1/2: 3.15, 5.25

**Flow Coefficient (Kv)**

- **5/3 - W3 - Pressure released, solenoid air pilot and return**
  - 1/4: 0.75, 1.25
  - 1/2: 3.15, 5.25

**Power Ratings**

- **5/2 - Solenoid air pilot operated spring return (monostable), certified IEC 61508 Functional Safety data**
  - 1/4: 0.75, 1.25
  - 1/2: 3.15, 5.25

---

**Features**

- All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors.
- The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction).
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1.
- The solenoid valves satisfy all relevant EU directives.

**General**

- **Differential pressure**: 2 - 10 bar [1 bar = 100 kPa]
- **Flow (Qv at 6 bar)**: 1/4, 1/2

**Filling temperatures**

<table>
<thead>
<tr>
<th>Fluids (+)</th>
<th>Temperature range (TS)</th>
<th>Seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air, inert gas, filtered</td>
<td>-25°C to +60°C</td>
<td>NBR (nitrile) + PUR (polyurethane)</td>
</tr>
</tbody>
</table>

**Materials in Contact With Fluid**

- **Body, end cover**: Aluminium, black anodized
- **End cover (spring return)**: Glass fibre filled PA
- **Spool valve internal parts**: Zamak, stainless steel, POM, aluminium
- **Seals**: NBR + PUR
- **Core tube**: Brass
- **Core and plug nut**: Stainless steel
- **Shading coil**: Copper

**Electrical Characteristics**

- **Coil insulation class**: F
- **Connector**: Spade plug (cable Ø 6-8 mm or Ø 6-10 mm)
  - EN 175301-803, 11 mm, industry standard form B (type 01)
  - or ISO 4400 / EN 175301-803, form A (type 02)
- **Electrical safety**: IEC 335
- **Moulded IP65 (EN 60529)**
- **Standard voltages**: DC (=): 24V - 48V
  - (Other voltages and 60 Hz on request): AC (−): 24V - 48V - 115V - 230V / 50 Hz

**Ordering Information**

<table>
<thead>
<tr>
<th>Configuration number</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCG551A017</td>
<td>MS - -</td>
</tr>
<tr>
<td>SCG553A017</td>
<td>MS - -</td>
</tr>
<tr>
<td>SCG551A018</td>
<td>MS - -</td>
</tr>
<tr>
<td>SCG553A018</td>
<td>MS - -</td>
</tr>
<tr>
<td>SCG551A067</td>
<td>MS - -</td>
</tr>
<tr>
<td>SCG553A067</td>
<td>MS - -</td>
</tr>
<tr>
<td>SCG551A068</td>
<td>MS - -</td>
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<td>SCG553A068</td>
<td>MS - -</td>
</tr>
<tr>
<td>SCG551A017SL</td>
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<tr>
<td>SCG553A018SL</td>
<td>- - -</td>
</tr>
</tbody>
</table>

**All leaflets are available on: www.asco.com**
**AIR OPERATED AND OPTIONS**

- **Versions (Type 03):**
  - PILOT air operated, spring return, catalogue numbers: G551A117 / G551A117SL (1/4);
  - G553A117 / G553A117SL (1/2)
- **Suffix “MF”** (air operated only, low temperature version, -40°C)
- **Suffix “GD”** (air operated only, ATEX 2GD c)
- Supply rail (www.asco.com)
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

**INSTALLATION**

- The valves can be mounted in any position without affecting operation
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability.
- Valves with suffix “SL” are supplied with specific exhaust protectors
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

**ACCESSORIES**

<table>
<thead>
<tr>
<th>series</th>
<th>pipe size</th>
<th>exhaust protector (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>551</td>
<td>G 1/4</td>
<td>34600419 (1)</td>
</tr>
<tr>
<td>553</td>
<td>G 1/2</td>
<td>34600479 (1)</td>
</tr>
<tr>
<td>551-553</td>
<td>M5</td>
<td>34600484 (1)</td>
</tr>
</tbody>
</table>

(1) Supplied with suffix “SL”

**DIMENSIONS (mm), WEIGHT (kg)**

**TYPE 01**

Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / DIN 43650
IP65

- **551A017 / A017MS / A017SL / A018 / A018MS**
- **551A067 / A067MS / A068 / A068MS**

**TYPE 02**

Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

- **553A017 / A017MS / A018 / A018MS / A067 / A067MS / A068 / A068MS**
- **553A017SL**

2 mounting holes:

A) 5.3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)
B) 6.5 mm dia. (Spotfacing: 11 mm dia., depth 6 mm)

**ORDERING EXAMPLES:**

<table>
<thead>
<tr>
<th>prefix</th>
<th>pipe thread</th>
<th>basic number</th>
<th>voltage</th>
<th>suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>G 551 A 017 MS</td>
<td>230V / 50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>G 551 A 017 SL</td>
<td>24V / DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>G 553 A 018 SL</td>
<td>115V / 50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G 551</td>
<td>A 117 SL</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Configurator - CAD Files

All leaflets are available on: www.asco.com

6 - Pneumatic Valves (5/2 - 5/3)

Availability, design and specifications are subject to change without notice. All rights reserved.
FEATURES

- All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors.
- The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction).
- Solenoid pilot valve with spade-plug connector type EN 175301-803, industry standard form C, with 9.4 mm spacing. Versions with M12 connection.
- Solenoid pilot valve, ONGO size 15 interface, with or without integral LED and electrical protection. LED indicator visible from 3 sides.
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TUV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The solenoid valves satisfy all relevant EU directives.

GENERAL

- Differential pressure: 2 - 10 bar (1 bar = 100 kPa)
- Flow (Qv at 6 bar): 1/4 Nm 1/2
- Pilot mounting interface surface: ISO 15218 (CNSMO E06.36.120N, size 15)
- Fluids (+): Air, inert gas, filtered
- Temperature range (°C): -25°C to +40°C
- Seal materials (+): NBR (nitrile) + PUR (polyurethane)

MATERIALS IN CONTACT WITH FLUID

(+): Ensure that the compatibility of the fluids in contact with the materials is verified.

- Body: Aluminium, black anodized.
- End cover (spring): Glass fibre filled PA.
- Spool valve internal parts: Zamak, stainless steel, POM, aluminium.
- Pilot body: PARA.
- Pilot internal parts: POM, PET, stainless steel and brass.
- Pneumatic interface seal: TPE.

ELECTRICAL CHARACTERISTICS

- Coil insulation class: F.
- Connector (type 05): Spade plug (cable Ø 4-6 mm).
- Connector specification: Type 05: DIN 43650, 9.4 mm, form C.
- Connection: Type 07: M12 (CNSMO E03.62.520.N).
- Electrical safety: IEC 335.
- Electrical enclosure protection: Moulded IP65 (05) or IP67 (07) (EN 60529).
- Standard voltages: DC (=): 24V.
- Other voltages and 60 Hz on request: AC (–): 24V-115V-230V / 50 Hz (prefix CFSC).

<table>
<thead>
<tr>
<th>prefix option</th>
<th>power ratings</th>
<th>power</th>
<th>voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inrush</td>
<td>holding</td>
<td>hot/cold</td>
</tr>
<tr>
<td>CFSC (1)</td>
<td>1/4</td>
<td>1.2</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>1.8</td>
<td>1.6</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>2.1</td>
<td>1.6</td>
<td>1.5</td>
</tr>
<tr>
<td>CFVT (2)</td>
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<td>2.0</td>
<td>1.9</td>
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<table>
<thead>
<tr>
<th>prefix option</th>
<th>power ratings</th>
<th>power</th>
<th>voltage</th>
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<td></td>
<td>inrush</td>
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<td>hot/cold</td>
</tr>
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<td>1/4</td>
<td>6</td>
<td>1.5</td>
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<td>1/2</td>
<td>3</td>
<td>1.5</td>
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SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
<th>options</th>
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<tbody>
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<td>4</td>
<td>0.75</td>
<td>12.5</td>
<td>1.1 to 1.5</td>
<td>CFSCG551C517</td>
<td>MS(MO)</td>
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<td>1/2</td>
<td>13</td>
<td>3.15</td>
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<td>1.1 to 1.5</td>
<td>CFSCG553A517</td>
<td>MS(MO)</td>
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<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
<th>options</th>
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<tbody>
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<td>1/4</td>
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<td>12.5</td>
<td>1.1 to 1.5</td>
<td>CFSCG551C518</td>
<td>MS(MO)</td>
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<td>1/2</td>
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<td>3.15</td>
<td>52.5</td>
<td>1.1 to 1.5</td>
<td>CFSCG553A518</td>
<td>MS(MO)</td>
</tr>
</tbody>
</table>

All leaflets are available on: www.asco.com
### Specifications

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient Kv</th>
<th>operating pressure differential (bar) min.</th>
<th>power coil (W)</th>
<th>catalogue number</th>
<th>options</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(m²/h)</td>
<td>(l/min)</td>
<td>max. (PS)</td>
<td>air (*)</td>
<td></td>
<td>M12</td>
</tr>
<tr>
<td>G</td>
<td>1/4</td>
<td>6</td>
<td>0,75</td>
<td>12,5</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>1/2</td>
<td>13</td>
<td>3,15</td>
<td>52,5</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>

5/2 - Solenoid air pilot operated - spring return (monostable), certified IEC 61508 Functional Safety data

### Options
- LED and protection, prefix CFSC, use TPL number: TPL 20674 (e.g.: TPL 20674 (e.g.: CFSCXG551C505TPL20674)
- Straight M12 connector: with 5 m cable length (catalogue number 58130212)
- Supply rail (www.asco.com)
- Versions with spade-plug connector type ISO 15217/DIN 43650 form C with 8 mm spacing or with cable ends: contact us
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

### INSTALLATION
- The valves can be mounted in any position without affecting operation
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Valves with suffix “SL ” are supplied with specific exhaust protectors
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

### Accessories

### Ordering Examples:

| CFSC | G 551 C 517 | 230V / 50 Hz |
| CFSC | G 551 C 517 SL | 115V / 50 Hz |
| CFVT | G 553 A 518 MS | 24V / DC |
| CFSC | G 553 A 517 SLMO | 230V / 50 Hz |

### Configurator - CAD Files

- **TYPE 05**
  - Prefix “CFSC” Polyaramide IEC 335 / IP65 DIN 43650, 9,4 mm
- **TYPE 07**
  - Prefix “CFVT” Polyaramide IEC 335 / IP67 M12

### Dimensions (mm), Weight (kg)

<table>
<thead>
<tr>
<th>series</th>
<th>pipe size</th>
<th>exhaust protector (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>551</td>
<td>G 1/4</td>
<td>34600419 (1)</td>
</tr>
<tr>
<td>553</td>
<td>G 1/2</td>
<td>34600479 (1)</td>
</tr>
<tr>
<td>551-553</td>
<td>M5</td>
<td>34600484 (1)</td>
</tr>
</tbody>
</table>

(1) Supplied with suffix “SL”

---

All leaflets are available on: www.asco.com

8 - Pneumatic Valves (5/2)
FEATURES
- All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors.
- The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction).
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket.
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1.
- The solenoid valves satisfy all relevant EU directives.

GENERAL
Differential pressure
Flow (Qv at 6 bar)
2 - 10 bar [1 bar = 100 kPa]
6 l/min (ANR)

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, filtered</td>
<td>-25°C to +60°C</td>
<td>NBR (nitrile) + PUR (polyurethane)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID (+)
- Ensure that the compatibility of the fluids in contact with the materials is verified.
- Body, end cover: Aluminium, black anodized.
- End cover (spring return): Glass fibre filled PA.
- Spool valve internal parts: Zamak, stainless steel, POM, aluminium.
- Core tube, core spring: Stainless steel.
- Core and plugnut: Stainless steel.
- Top disc: PA.
- Pilot seals: FPM, NBR.
- Shading coil: Copper.

OTHERS MATERIALS
- Solenoid enclosure: Zinc plated steel (epoxy coated).

ELECTRICAL CHARACTERISTICS
- Coils: Embedded screw terminal (cable ø 7 - 12 mm).
- Electrical safety: IEC 335.
- Electrical enclosure protection: IP67 (EN 60529).
- Standard voltages: DC (=): 24V - 48V
- (Other voltages and 60 Hz on request): AC (-): 24V - 48V - 115V - 230V / 50 Hz
- Power ratings: (VA)…(VA)…(W)…(W)…(C°)
- Replacement coil: 230 V/50 Hz 24 V DC
- Catalogue number: 400405-117 400405-142 01

SPECIFICATIONS
- Operating pressure differential (bar)
- Power coil (W)
- Catalogue number

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice</th>
<th>flow coefficient</th>
<th>Kv</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All leaflets are available on: www.asco.com
OPTIONS
- Valves configured for external pilot air supply with ASCO solenoid interface, TPL 20547
- Compliance with “UL”, “CSA” and other local approvals available on request
- Coil insulation class H for max. ambient temperature +80°C, prefix “WPHT”
- 1/2” NPT (prefix “T”) and M20 x 1.5 (prefix “ET”) conduits (aluminium or 316 SS) available for steel solenoid enclosure
- Other pipe connections are available on request

INSTALLATION
- The solenoid valves can be mounted in any position without affecting operation
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Solenoid enclosure has a cable gland with integral strain relief for cables with an O.D. from 7 to 12 mm and is provided with internal and external grounding terminals
- Valves with suffix “SL” are supplied with specific exhaust protectors
- Installation/maintenance instructions are included with each valve

ACCESSORIES
<table>
<thead>
<tr>
<th>series</th>
<th>pipe size</th>
<th>exhaust protector (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>551-553</td>
<td>G 1/8</td>
<td>34600418 (1)</td>
</tr>
<tr>
<td>551</td>
<td>G 1/4</td>
<td>34600419 (1)</td>
</tr>
<tr>
<td>553</td>
<td>G 1/2</td>
<td>34600479 (1)</td>
</tr>
</tbody>
</table>

(1) Supplied with suffix “SL”.

DIMENSIONS (mm), WEIGHT (kg)

Series 551

A 2 mounting holes: 5.3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)
B 2 mounting holes: 6.5 mm dia. (Spotfacing: 11 mm dia., depth 6 mm)

TYPE 01
Prefix “WP” Solenoid
Metal: epoxy coated
IEC 335
IP67

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
<th>suffix</th>
<th>W1 - W3</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP</td>
<td>G</td>
<td>551 B 417</td>
<td>230V / 50 Hz</td>
<td></td>
</tr>
<tr>
<td>WP</td>
<td>G</td>
<td>551 B 417 SL</td>
<td>230V / 50 Hz</td>
<td></td>
</tr>
<tr>
<td>WP</td>
<td>G</td>
<td>553 A 418 MO</td>
<td>24V / DC</td>
<td></td>
</tr>
<tr>
<td>WPHT</td>
<td>G</td>
<td>551 B 418 MO</td>
<td>230V / 50 Hz</td>
<td></td>
</tr>
<tr>
<td>WP</td>
<td>G</td>
<td>553 A 418 MO</td>
<td>115V / 50 Hz</td>
<td></td>
</tr>
</tbody>
</table>

prefix: coil and cable gland.

(1) Cable gland for unarmoured cable with 7 to 12 mm dia. sheath
(2) Manual operator location
(3) External pilot air supply, 1/8 pipe size

<table>
<thead>
<tr>
<th>type</th>
<th>series</th>
<th>prefix option</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>monostable</th>
<th>bistable</th>
<th>W1 - W3</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>551 WP</td>
<td>160 216 103</td>
<td>0.87</td>
<td>1.52</td>
<td>1.52</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>553 WP</td>
<td>196.2 256.3 112.5</td>
<td>1.51</td>
<td>2.08</td>
<td>2.08</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Including coil and cable gland.
FEATURES
- All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors.
- The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction).
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket.
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TÜV certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1.
- The solenoid valves satisfy all relevant EU directives.

GENERAL
- Differential pressure: 2 - 10 bar [1 bar = 100 kPa]
- Flow (Qv at 6 bar): 860 l/min (ANR)
- Pilot mounting interface: ISO 15218 (CNOMO E06.36.120N, size 15)

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, filtered</td>
<td>-40°C to +60°C</td>
<td>VMQ (silicone) + PUR (polyurethane)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID
- Ensure that the compatibility of the fluids in contact with the materials is verified.

Body, end cover, seats: Brass.
Spool valve internal parts: Brass, stainless steel, POM.
Core tube: Stainless steel.
Core and plugnut: Stainless steel.
Top disc: PA.
Pilot seals: FPM, NBR.
Shading coil: Copper.

OTHERS MATERIALS
- Solenoid enclosure (WP): Zinc plated steel (epoxy coated).

ELECTRICAL CHARACTERISTICS
- Coil insulation class: F.
- Connector (SC): Spade plug (cable Ø 6-10 mm).
- Connector specification (SC): ISO 4400 / EN 175301-803, form A.
- Coil connection (WP): Embedded screw terminal (cable ø 7 - 12 mm).
- Electrical safety: IEC 335.
- Electrical enclosure protection: Moulded IP65 (SC) or IP67 (WP) (EN 60529).
- Standard voltages: DC (=) : 24V - 48V (Other voltages and 60 Hz on request).

SPECIFICATIONS
- Pipe size: 1/4
- Orifice size: 6
- Flow coefficient: 0,75
- Flow coefficient coefficient: 12,5
- Operating pressure range: 0 / 2
- Power coil: 10,5
- Power coil: 11,2
- Type: 01 (SC)
- Type: 02 (WP)
- Zero minimum is only achieved if external pressure is applied.

All leaflets are available on: www.asco.com
OPTIONS

- Valves configured for external pilot air supply, use TPL 20547
- Compliance with “UL”, “CSA” and other local approvals available on request
- Coil insulation class H for max. ambient temperature +80°C, prefix HT (“SCHT” or “WPHT”)
- 1/2” NPT (prefix “T”) and M20 x 1.5 (prefix “ET”) conduits (aluminium or 316 SS) available for steel solenoid enclosure
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Prefix “WP” execution: solenoid enclosure has a cable gland with integral strain relief for cables with an O.D. from 7 to 12 mm and is provided with internal and external grounding terminals
- Valves with suffix “SL” are supplied with specific exhaust protectors
- Installation/maintenance instructions are included with each valve

ACCESSORIES

<table>
<thead>
<tr>
<th>series</th>
<th>pipe size</th>
<th>exhaust protector (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>551</td>
<td>G 1/8</td>
<td>34600418</td>
</tr>
<tr>
<td></td>
<td>G 1/4</td>
<td>34600419</td>
</tr>
</tbody>
</table>

(1) Supplied with suffix “SL”.

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>option</th>
<th>weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
<td>monostable</td>
<td>1.52, 2.28</td>
</tr>
<tr>
<td>02</td>
<td>WP</td>
<td>bistable</td>
<td>1.70, 2.72</td>
</tr>
</tbody>
</table>

(1) Including coil(s), connector (SC) and cable gland (WP).

DIMENSIONS (mm), WEIGHT (kg)

| 1/8   | 32   | 5 x 1/4 | 2
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>91</td>
<td>143.5</td>
<td>183</td>
</tr>
</tbody>
</table>

2 mounting holes: 5.3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)

TYPE 01
Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>option</th>
<th>weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
<td>monostable</td>
<td>1.52, 2.28</td>
</tr>
<tr>
<td>02</td>
<td>WP</td>
<td>bistable</td>
<td>1.70, 2.72</td>
</tr>
</tbody>
</table>

(1) Including coil(s), connector (SC) and cable gland (WP).

Cable gland for unarmoured cable with 7 to 12 mm dia. sheath
Manual operator location
External pilot air supply, 1/8 pipe size

All leaflets are available on: www.asco.com

12 - Direct or Pilot Operated Solenoid Valves (5/2)
SPOOL VALVES

pilot operated or air operated, spool type

single/dual solenoid or air

aluminium body, “NAMUR” style, 1/4 - 1/2

FEATURES

• The solenoid operated spool valves have threaded port connections and NAMUR interface
• The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting actuators
• All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors
• The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction)
• The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
• The solenoid valves satisfy all relevant EU directives

GENERAL

Differential pressure
Flow (Qv at 6 bar)

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, filtered</td>
<td>-25°C to +60°C</td>
<td>NBR (nitrile) + PUR (polyurethane)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID

(+) Ensure that the compatibility of the fluids in contact with the materials is verified

Body, end cover
End cover (spring return)
Spool valve internal parts
Seals
Core tube
Core and plugnut
Shading coil

Electrical characteristics

Coil insulation class
Connector
Connector specification
Electrical safety
Electrical enclosure protection
Standard voltages

<table>
<thead>
<tr>
<th>prefix option</th>
<th>power ratings</th>
<th>coil insolation class</th>
<th>connector</th>
<th>connector specification</th>
<th>electrical safety</th>
<th>electrical enclosure protection</th>
<th>standard voltages</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 6</td>
<td>3.5 / 2.5 / 2.5 / 3</td>
<td>F</td>
<td>Spade plug (cable Ø 6-8 mm or Ø 6-10 mm)</td>
<td>EN 175301-803, 11 mm, industry standard form B (type 01) or ISO 4400 / EN 175301-803, form A (type 02)</td>
<td>IEC 335</td>
<td>Moulded IP65 (EN 60529)</td>
<td>DC (=): 24V - 48V</td>
</tr>
<tr>
<td>SC 15</td>
<td>7 / 5 / 4.7 / 5</td>
<td>Brass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Other voltages and 60 Hz on request)</td>
</tr>
</tbody>
</table>

ELECTRICAL CHARACTERISTICS

Configurator - CAD Files

Configure your selection on the Configurator - CAD Files. Only the selected valve will be shown in the download list on the download page of the Configurator - CAD Files.

SPECIFICATIONS

Configurator - CAD Files

Refer to the dimensional drawings on the following page

All leaflets are available on: www.asco.com

Pneumatic Valves (3/2 - 5/2 - 5/3 - NAMUR) 13
AIR OPERATED AND OPTIONS

- Versions (Type 03): pilot air operated, spring return, catalogue numbers: G551A101 / G551A101SL (1/4); G553A101 / G553A101SL (1/2).
- Suffix “MF” (air operated only, low temperature version, -40°C).
- Suffix “GD” (air operated only, ATEX 2GD c).
- Valves equipped with exhaust reducers G 1/8 (3/2 NC-5/2, series 551), suffix MMS.
- Set of stainless steel mounting screws (series 551), catalogue number 97802212.
- Set of two G 1/8 exhaust reducers (series 551), catalogue number 88100344.
- Other pipe connections are available on request.
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com).

INSTALLATION

- The valves can be mounted in any position without affecting operation.
- 3/2 NC-5/2 spool valve supplied with one or two interface plates with NAMUR mating surfaces.
- Supplementary plate (series 551) or one of the two plates (series 553) on the spool valve body before installing on actuator.
- Do not connect the pressure supply to the exhaust port 3. The “environmentally-protected” construction is not adapted for NO function. Contact us for function available in specific version.
- Dowel pin (if necessary), bolts and gaskets are standard supplied.
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.).
- IEC 61508 Functional Safety (suffix “SL”).
- Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us.
- Threaded pipe connection is standard.
- Valves with suffix “SL” are supplied with specific exhaust protectors.
- Installation/maintenance instructions are included with each valve.

ACCESSORIES

<table>
<thead>
<tr>
<th>series</th>
<th>pipe size</th>
<th>exhaust protector (stainless steel)</th>
<th>code</th>
</tr>
</thead>
<tbody>
<tr>
<td>551</td>
<td>G 1/8</td>
<td>34600418 (1)</td>
<td></td>
</tr>
<tr>
<td>551 (W1/W3)</td>
<td>G 1/4</td>
<td>34600419</td>
<td></td>
</tr>
<tr>
<td>553</td>
<td>G 1/2</td>
<td>34600479 (1)</td>
<td></td>
</tr>
<tr>
<td>551-553</td>
<td>M5</td>
<td>34600484 (1)</td>
<td></td>
</tr>
</tbody>
</table>

(1) Supplied with suffix “SL”

DIMENSIONS (mm), WEIGHT (kg)

TYPE 01
Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / DIN 4400
IP65

TYPE 03
No prefix
Air operated version

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
<th>suffix</th>
<th>code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>G 551 A 001</td>
<td>230V</td>
<td>MS</td>
<td>250 / 50 Hz</td>
</tr>
<tr>
<td>G</td>
<td>551 A 001</td>
<td>24V</td>
<td>DC</td>
<td>115V / 50 Hz</td>
</tr>
<tr>
<td>G</td>
<td>551 A 002</td>
<td>50 Hz</td>
<td>SL</td>
<td>551 A 101</td>
</tr>
<tr>
<td>G</td>
<td>551 A 101</td>
<td>50 Hz</td>
<td>SL</td>
<td>551 A 101</td>
</tr>
</tbody>
</table>

Configurator - CAD Files

1. 2 mounting holes: 5.3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)
2. 2 mounting holes: 6.5 mm dia. (Spotfacing: 11 mm dia., depth 6 mm)
3. One 5 mm dia. hole for dowel pin:
   - In position A1: 3/2 NC function plate
   - In position A2: 5/2 function plate
4. O-ring seals (supplied)
5. Exhaust reducer (G 1/8, 3/2 NC-5/2, series 551) or exhaust protector
6. Interface plate

All leaflets are available on: www.asco.com

SERIES 551-553

14 - Pneumatic Valves (3/2 - 5/2 - 5/3 - NAMUR)
FEATUERS
- The solenoid operated spool valves have threaded port connections and NAMUR interface.
- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting actuators.
- All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors.
- The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction).
- Solenoid spool valve with spade-plug connector type, EN 175301-803, industry standard form C, with 9.4 mm spacing. Versions with M12 connection.
- Solenoid pilot valve, CNOMO size 15 interface, with or without integral LED and electrical protection. LED indicator visible from 3 sides.
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2; version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1.
- The solenoid valves satisfy all relevant EU directives.

GENERAL
- Differential pressure [2 - 10 bar [1 bar = 100 kPa]
- Flow (Qv at 6 bar)
  - 1/4
  - 1/2
  - 1/4
  - 1/2
- Pilot mounting interface surface ISO 15218 (CNOMO E06.36.120N, size 15)
  - fluids (+)
  - temperature range (TS)
  - seal materials (+)
  - air, inert gas, filtered
  - -25°C to +40°C
  - NBR (nitrile) + PUR (polyurethane)

MATERIALS IN CONTACT WITH FLUID
- Ensure that the compatibility of the fluids in contact with the materials is verified.
- Body: Aluminium, black anodized
- End cover (spring): Glass fibre filled PA
- Interface plates: Glass fibre filled PA
- Spool valve internal parts: Zamak, stainless steel, POM, aluminium
- Pilot body: PARA
- Pilot internal parts: POM, PET, stainless steel and brass
- Pneumatic interface seal: TPE

ELECTRICAL CHARACTERISTICS
- Coil insulation class: F
- Connector (type 05): Spade plug (cable Ø 4-6 mm)
- Connector specification: Type 05: DIN 43650, 9,4 mm, form C
- Connection: Type 07: M12 (CNOMO E03.62.520.N)
- Electrical safety: IEC 335
- Electrical enclosure protection: Moulded IP65 [05] or IP67 [07] (EN 60529)
- Standard voltages: DC (=): 24V
  - (Other voltages and 60 Hz on request)
  - AC (≈): 24V-115V-230V / 50 Hz (prefix CFSC)

Specifics

| Configuration - CAD Files |
|---------------------------|---------------------------------|
| CFSC                      | CFSCG553A501                   |
| CFVT                      | CFSCG551C501                   |

SPECIFICATIONS

| Configuration - CAD Files |
|---------------------------|---------------------------------|
| CFSC                      | CFSCG553A501                   |
| CFVT                      | CFSCG551C501                   |

All leaflets are available on: www.asco.com

Pneumatic Valves (3/2 - 5/2 - NAMUR) - 15
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe orifice size</th>
<th>orifice size</th>
<th>flow coefficient Kv</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
<th>options</th>
</tr>
</thead>
<tbody>
<tr>
<td>G (mm)</td>
<td>(m³/h) (l/min)</td>
<td>max. (PS)</td>
<td>min. (PS)</td>
<td>air (%)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1/4</td>
<td>6</td>
<td>0,6</td>
<td>10</td>
<td>2</td>
<td>1...1.5, 1,2</td>
<td>CFSCG551C501SL</td>
</tr>
<tr>
<td>1/2</td>
<td>13</td>
<td>2,49</td>
<td>41,5</td>
<td>2</td>
<td>1...1.5, 1,2</td>
<td>CFSCG551A501SL</td>
</tr>
</tbody>
</table>

#### OPTIONS

- LED and protection, prefixes CFSC / CFSD, use TPL number: TPL 20674 (e.g.: CFSSEXG551C505TPL20674)
- Straight M12 connector: with 5 m cable length (catalogue number 88130212)
- Valves equipped with exhaust reducers G 1/8 (3/2 NC-5/2, series 551), suffix MMS
- Set of stainless steel mounting screws (series 551), catalogue number 97802212
- Set of two G 1/8 exhaust reducers (series 551), catalogue number 88100344
- Versions with spade-plug connector type ISO 15217/DIN 43650 form C with 8 mm spacing or with cable ends: contact us
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m ([www.asco.com](http://www.asco.com))
- Valves equipped with exhaust reducers G 1/8 (3/2 NC-5/2, series 551), suffix SL

#### INSTALLATION

- The valves can be mounted in any position without affecting operation
- 3/2 NC-5/2 spool valve supplied with one or two interface plates with NAMUR mating surfaces. Depending on function (3/2 NC or 5/2), position the plate (series 551) or one of the two plates (series 553) on the spool valve body before installing on actuator
- Do not connect the pressure supply to the exhaust port 3. The "environmentally-protected" construction is not adapted for NO function. Contact us for function available in specific version
- Dowel pin (if necessary), bolts and gaskets are standard supplied
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Valves with suffix "SL" are supplied with specific exhaust protectors
- Installation/maintenance instructions are included with each valve

#### ACCESSORIES

<table>
<thead>
<tr>
<th>series</th>
<th>pipe size</th>
<th>exhaust protector (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>551 G 1/8</td>
<td>34600418 (1)</td>
<td></td>
</tr>
<tr>
<td>553 G 1/2</td>
<td>34600479 (1)</td>
<td></td>
</tr>
<tr>
<td>551-553 M5</td>
<td>34600484 (1)</td>
<td></td>
</tr>
</tbody>
</table>

(1) Supplied with suffix "SL"

### DIMENSIONS (mm), WEIGHT (kg)

#### TYPE 05
- Prefix "CFSC"
- Polyarilamide
- IEC 335 / IP65
- DIN 43650, 9,4 mm

<table>
<thead>
<tr>
<th>551</th>
<th>99</th>
<th>24</th>
<th>60</th>
<th>1 x 1/2</th>
<th>1 x 1/4</th>
<th>22,5</th>
</tr>
</thead>
<tbody>
<tr>
<td>553</td>
<td>90</td>
<td>24</td>
<td>60</td>
<td>1 x 1/2</td>
<td>1 x 1/4</td>
<td>22,5</td>
</tr>
</tbody>
</table>

2 mounting holes:
1. 5,3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)
2. 6,5 mm dia. (Spotfacing: 11 mm dia., depth 6 mm)
3. One 5 mm dia. hole for dowel pin:
   - in position A1: 3/2 NC function plate
   - in position A2: 5/2 function plate
4. 2 O-ring seals (supplied)

5. Exhaust reducer (G 1/8, series 551)
6. Interface plate
7. One 6,5 mm dia. hole for dowel pin, position for 3/2 NC or 5/2 function plate
8. Manual operator location

#### TYPE 07
- Prefix "CFVT"
- Polyarilamide
- IEC 335 / IP67
- M12

2 mounting holes:
1. 5,3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)
2. 6,5 mm dia. (Spotfacing: 11 mm dia., depth 6 mm)

### ORDERING EXAMPLES:

| CFSC G 551 C 501 | 230V / 50 Hz |
| CFSC G 551 C 501 SL | 115V / 50 Hz |
| CFVT G 553 A 502 MS | 24V / DC |
| CFSC G 551 C 501 SLMO | 230V / 50 Hz |

#### Configurator - CAD Files

[www.asco.com](http://www.asco.com)

All leaflets are available on: [www.asco.com](http://www.asco.com)

16 - Pneumatic Valves (3/2 - 5/2 - NAMUR)
SOLENOID VALVES
pilot operated, spool type
single/dual solenoid
aluminium body, “NAMUR” style, 1/4 - 1/2

FEATURES
- The solenoid operated spool valves have threaded port connections and NAMUR interface
- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting actuators
- All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors
- The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction)
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The solenoid valves satisfy all relevant EU directives

GENERAL
Differential pressure
Flow (Qv at 6 bar)

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, filtered</td>
<td>-25°C to +60°C</td>
<td>NBR (nitrile) + PUR (polyurethane)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID
(+): Ensure that the compatibility of the fluids in contact with the materials is verified

Body, end cover
Aluminium, anodised

End cover (spring return)
Glass fibre filled PA

Interface plates
Glass fibre filled PA

Spool valve internal parts
Zamak, stainless steel, POM, aluminium

Core, core tube and plughunt
Stainless steel

Core spring
Stainless steel

Top disc
PA

Pilot seals
FPM, NBR

Shading coil
Copper

OTHERS MATERIALS
Solenoide enclosure
Zinc plated steel (epoxy coated)

ELECTRICAL CHARACTERISTICS
Coil insulation class
F

Coil connection
Embedded screw terminal (cable ø 7 - 12 mm)

Cable entry
Cable gland, polyamide (PA), M20x1,5

Electrical safety
IEC 335

Electrical enclosure protection
IP67 (EN 60529)

Standard voltages
DC (=): 24V - 48V

(Other voltages and 60 Hz on request)
AC (~): 24V - 48V - 115V - 230V / 50 Hz

SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient Kv</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
<th>options</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/2 NC - 5/2 - Solenoid air pilot operated - spring return, or solenoid air pilot and return</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4</td>
<td>6</td>
<td>0,6</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>1/2</td>
<td>13</td>
<td>2,49</td>
<td>41,5</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>3/2 NC - 5/2 - Solenoid air pilot operated spring return (monostable), certified IEC 61508 Functional Safety data</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4</td>
<td>6</td>
<td>0,6</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>1/2</td>
<td>13</td>
<td>2,49</td>
<td>41,5</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>5/3 - W1 - pressure held, solenoid air pilot and return</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4</td>
<td>6</td>
<td>0,6</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>1/2</td>
<td>13</td>
<td>2,49</td>
<td>41,5</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>5/3 - W3 - pressure released, solenoid air pilot and return</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4</td>
<td>6</td>
<td>0,6</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>1/2</td>
<td>13</td>
<td>2,49</td>
<td>41,5</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

All leaflets are available on: www.asco.com

Direct or Pilot Operated Solenoid Valves (3/2-5/2-5/3) - 17
Solenoid Valves Series 551-553

**Options**

- Valves configured for external pilot air supply with ASCO solenoid interface, TPL 20547
- Compliance with "UL", "CSA" and other local approvals available on request
- Coil insulation class H for max. ambient temperature +80°C, prefix "WPHT"
- 1/2" NPT (prefix "T") and M20 x 1.5 (prefix "ET") conduits (aluminium or 316 SS) available for steel solenoid enclosure
- Valves equipped with exhaust reducers G 1/8 (3/2 NC-5/2, series 551), suffix M
- Set of stainless steel mounting screws (series 551), catalogue number 97802212
- Set of two G 1/8 exhaust reducers (series 551), catalogue number 88100344
- Other pipe connections are available on request

**Installation**

- The solenoid valves can be mounted in any position without affecting operation
- 3/2 NC-5/2 spool valve supplied with one or two interface plates with NAMUR mating surfaces. Depending on function (3/2 NC or 5/2), position the plate (series 551) or one of the two plates (series 553) on the spool valve body before installing on actuator
- Do not connect the pressure supply to the exhaust port 3. The "environmentally-protected" construction is not adapted for NO function. Contact us for function available in specific version
- Dowel pin (if necessary), bolts and gaskets are standard supplied
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic system. This is particularly important in external environments, such as tanks and silos.
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Solenoid enclosure has a cable gland with integral strain relief for cables with an O.D. from 7 to 12 mm and is provided with internal and external grounding terminals
- Valves with suffix "SL" are supplied with specific exhaust protectors
- Installation/maintenance instructions are included with each valve

**Accessories**

<table>
<thead>
<tr>
<th>Series</th>
<th>Pipe Size</th>
<th>Exhaust Protector</th>
<th>Pipe Thread</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>551-553</td>
<td>G 1/8</td>
<td>34600418 (1)</td>
<td>WP</td>
<td>230V / 50 Hz</td>
</tr>
<tr>
<td>551 (W1/W3)</td>
<td>G 1/4</td>
<td>34600419 (1)</td>
<td>WP</td>
<td>230V / 50 Hz</td>
</tr>
<tr>
<td>553</td>
<td>G 1/2</td>
<td>34600479 (1)</td>
<td>WP</td>
<td>115V / 50 Hz</td>
</tr>
</tbody>
</table>

(1) Supplied with suffix “SL”

**Ordering Examples:**

- WP G 551 B 401 230V / 50 Hz
- WP G 551 B 401 SL 230V / 50 Hz
- WP G 553 A 402 MO 24V / DC
- WPH G 551 B 402 MO 230V / 50 Hz
- WP G 553 A 402 MO 115V / 50 Hz

**Dimensions (mm), Weight (kg)**

<table>
<thead>
<tr>
<th>Type 01</th>
<th>Prefix “WP” Solenoid Valve</th>
<th>Metal: epoxy coated</th>
<th>IEC 335</th>
<th>IP67</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1 - W3</td>
<td>142 (551) / 196 (553)</td>
<td>198 (551) / 258 (553-W1-W3)</td>
<td>221,5 (551-W1-W3)</td>
<td>40</td>
</tr>
</tbody>
</table>

**Type 04**

<table>
<thead>
<tr>
<th>Type</th>
<th>Prefix</th>
<th>Option</th>
<th>Monostable</th>
<th>Weight (kg)</th>
<th>Bistable</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>WP</td>
<td></td>
<td>551</td>
<td>0.79</td>
<td>553</td>
<td>1.57</td>
</tr>
</tbody>
</table>

All leaflets are available on: [www.asco.com](http://www.asco.com)
FEATURES

- High quality coil resistance to heat & moisture and suitable for high ambient temperature & harsh environment
- The same spool valve can be adapted for 3/2* or 5/2 functions for controlling double-acting and single-acting actuators
- All the exhaust ports of this spool valve are pipe-able, providing better environmental protection, particularly recommended for sensitive areas such as applications in the pharmaceutical and food industries
- Non Breathing construction where the spring return chambers of the single or double acting actuator are collected with the solenoid valve exhaust
- NAMUR design (LH Orientation & RH Orientation) ensures supply and exhaust ports of the solenoid valve are facing down to prevent water and ingress
- Robust and long lasting 316L Stainless Steel Manual Operator (maintained manual operator)
- The solenoid valves satisfy all relevant EU Directives

* For NAMUR type, 5/2 can be converted to 3/2 NC by rotating NAMUR plate

GENERAL

Differential pressure 2 - 8 bar [1 bar = 100 kPa]
Flow (Qv at 6 bar) 820 l/min (ANR)

<table>
<thead>
<tr>
<th>fluids (**)</th>
<th>temperature range (TS)</th>
<th>seal materials (**)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, filtered</td>
<td>-20°C to +60°C</td>
<td>NBR (nitrile)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID

(‡) Ensure that the compatibility of the fluids in contact with the materials is verified

Body Aluminium, anodized
Pilot and spring end Polyamide PA6.6, 30% FV
Internal parts POM (Polyacetal), stainless steel, aluminium
Seals NBR
Core tube Brass
Plugnut Stainless steel
Shading coil Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class F
Electrical safety IEC 335
Standard voltages DC (=) : 24V - 48V
 AC (-) : 50/60Hz : 24V - 48V - 115V - 230V ; Other voltages are available on request

ELECTRICAL CONNECTIONS

| connection | type
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Spade plug connector with cable gland DIN 43650, 11 mm, industry standard B, for cables with an outer diameter from 6 to 8 mm.</td>
<td>01</td>
</tr>
</tbody>
</table>

---

All leaflets are available on: www.asco.com

Direct or Pilot Operated Solenoid Valves (3/2-5/2) - 19
SERIES 521

SPECIFICATIONS
Pipe size 1/4
Main valve orifice size 6 mm
Operating pressure differential 2 to 8 bar

<table>
<thead>
<tr>
<th>function</th>
<th>construction</th>
<th>symbol</th>
<th>thread type</th>
<th>basic code (3) (without voltage)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAMUR 3/2 NF - 5/2 (1)</td>
<td>Solenoid air pilot operated - spring return (monostable) LH construction</td>
<td>G</td>
<td>G521A2B12S83M-**</td>
<td>NPT 8521A2B12S83M-**</td>
</tr>
<tr>
<td></td>
<td>Solenoid air pilot operated and return (bistable) LH construction</td>
<td>G</td>
<td>G521A2B42S83M-**</td>
<td>NPT 8521A2B42S83M-**</td>
</tr>
<tr>
<td></td>
<td>Solenoid air pilot operated - spring return (monostable) RH construction</td>
<td>G</td>
<td>G521A2B12S83P-**</td>
<td>NPT 8521A2B12S83P-**</td>
</tr>
<tr>
<td></td>
<td>Solenoid air pilot operated and return (bistable) RH construction</td>
<td>G</td>
<td>G521A2B42S83P-**</td>
<td>NPT 8521A2B42S83P-**</td>
</tr>
</tbody>
</table>

(1) For NAMUR type, 5/2 can be converted to 3/2 NC by rotating NAMUR plate
(2) For the voltage, please replace the 2 last digits by the ones according to the requested voltage (see below valve selection table)

ACTUATOR MOUNTING POSITION

Depending on the actuator’s port orientation, the ASCO 521 NAMUR Design (LH construction NAMUR & RH construction NAMUR) is to ensure that the supply port (1) and exhaust ports (3 & 5) are always facing down to prevent water dust ingress.

HOW TO ORDER

Valve Selection

Thread connection
G = ISO228/1-G
8 = NPTF

Product series
521

Revision letter
A

Actuation
2 = Rubber Packed

Valve type
B = Solenoid air pilot

Function
1 = 3/2-5/2 NAMUR Spring Return
4 = 3/2-5/2 NAMUR Dual Solenoid

Port size
2 = 1/4

Voltage
EW = 115/50, 120/60
EY = 110/50-60
FX = 230/50-60
FQ = 24/50-60
F = 48/50-60
F = 24/DC
F = 12/DC
F = 48/DC

Options
83M = Namur version LH construction
83P = Namur version RH construction

Electrical interface
S = With spade plug connector (3)

(3) For non standard connector (e.g. LED connector), please contact us.

All leaflets are available on: www.asco.com
ADDITIONAL OPTIONS

- Plug with visual indication and peak voltage suppression or with cable length of 2 m (Contact us)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Spool valve supplied with one adapter plate with NAMUR mating surface. Adapter plate can be rotated 180° and converted to 3/2 or 5/2 function. The plate must be mounted on the actuator prior to assembling the solenoid valve
- It is strongly recommended to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids, etc.)
- NAMUR accessories (Bolts, Gaskets, Nuts & Plate) are standard supplied for NAMUR version
- Threaded pipe connection is standard: G = G (ISO 228/1); 8 = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>Type 01</th>
<th>Solenoid with DIN spade plug connector</th>
<th>Moulded IP65</th>
<th>Reduced power</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH construction NAMUR</td>
<td>RH construction NAMUR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>weight (1) (kg)</th>
<th>type 01 *</th>
</tr>
</thead>
<tbody>
<tr>
<td>monostable</td>
<td>0.25</td>
</tr>
<tr>
<td>bistable</td>
<td>0.38</td>
</tr>
</tbody>
</table>

* Actuator mounting M5 screw (2x)

(1) Actuator mounting M5 screw (2x)

For NAMUR type, 5/2 can be converted to 3/2 NC by rotating NAMUR plate
(1) incl. coil(s) and connector(s).
NAMUR ADAPTOR KIT
(LH construction NAMUR & RH construction NAMUR)

<table>
<thead>
<tr>
<th>Det. No</th>
<th>Part Name</th>
<th>Qty</th>
<th>LH construction</th>
<th>RH construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Mounting Screws M3 x 25</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>Profile Gasket</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Adapter Mounting Screw M5 x 10</td>
<td>2</td>
<td>R521AT514630001</td>
<td>R521AT514630002</td>
</tr>
<tr>
<td>04</td>
<td>NAMUR Plate</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>M3 Nut</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>O Ring</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SOLENOID VALVES
pilot operated, spool type single/dual solenoid (mono/bistable function)
brass body, “NAMUR” style, 1/4

FEATURES
- The solenoid operated spool valves have threaded port connections and NAMUR interface
- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting actuators
- All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors
- The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction)
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TÜV certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The solenoid valves satisfy all relevant EU directives

GENERAL
Differential pressure
Flow (Qv at 6 bar)
Pilot mounting interface surface

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (°C)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, filtered</td>
<td>-40°C to +60°C</td>
<td>VMQ (silicone) + PUR (polyurethane)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID
(+) Ensure that the compatibility of the fluids in contact with the materials is verified
Body, end cover, seats: Brass
Spool valve internal parts: Brass, stainless steel, POM
Core tube: Stainless steel
Core and plugnut: Stainless steel
Core spring: Stainless steel
Top disc: PA
Pilot seals: FPM, NBR
Interface plates: Glass fibre filled PA
Shading coil: Copper

OTHERS MATERIALS
Solenoide enclosure (WP): Zinc plated steel (epoxy coated)

ELECTRICAL CHARACTERISTICS
Coil insulation class: F
Connector (SC): Spade plug (cable Ø 6-10 mm)
Connector specification (SC): ISO 4400 / EN 175301-803, form A
Coil connection (WP): Embedded screw terminal (cable ø 7 - 12 mm)
Cable entry (WP): Cable gland, polyamide (PA), M20x1,5
Electrical safety: IEC 335
Electrical enclosure protection: Moulded IP65 (SC) or IP67 (WP) (EN 60529)
Standard voltages: DC (=): 24V - 48V
(Other voltages and 60 Hz on request): AC (-): 24V - 48V - 115V - 230V / 50 Hz

SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number type 01 (SC)</th>
<th>type 02 (WP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/2 NC - 5/2 - Solenoid air pilot operated - spring return (monostable)</td>
<td>1/4</td>
<td>6</td>
<td>0.6</td>
<td>10</td>
<td>0.2</td>
<td>10</td>
</tr>
<tr>
<td>3/2 NC - 5/2 - Solenoid air pilot operated and return (bistable)</td>
<td>1/4</td>
<td>6</td>
<td>0.6</td>
<td>10</td>
<td>0.2</td>
<td>10</td>
</tr>
</tbody>
</table>

(1) Refer to the dimensional drawings on the following page.

All leaflets are available on: www.asco.com

Direct or Pilot Operated Solenoid Valves (3/2-5/2) - 23
OPTIONS

- Valves configured for external pilot air supply, use TPL 20547
- Compliance with "UL", "CSA" and other local approvals available on request
- Coil insulation class H for max. ambient temperature +80°C, prefix HT ("SCHT" or "WPHT")
- 1/2" NPT (prefix "T") and M20 x 1.5 (prefix "ET") conduits (aluminium or 316 SS) available for steel solenoid enclosure
- Valves equipped with exhaust reducers, suffix M
- Set of stainless steel mounting screws, catalogue number 97802212
- Set of two exhaust reducers, catalogue number 88100344
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m ([www.asco.com](http://www.asco.com))

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- 3/2 NC-5/2 spool valve supplied with one interface plate with NAMUR mating surface. Depending on function (3/2 NC or 5/2), position the plate on the spool valve body before installing on actuator
- Do not connect the pressure supply to the exhaust port 3. The "environmentally-protected" construction is not adapted for NO function. Contact us for function available in specific version
- Dowel pin (if necessary), bolts and gaskets are standard supplied
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Prefix “WP” execution: solenoid enclosure has a cable gland with integral strain relief for cables with an O.D. from 7 to 12 mm and is provided with internal and external grounding terminals
- Valves with suffix "SL" are supplied with specific exhaust protectors
- Installation/maintenance instructions are included with each valve

ACCESSORIES

<table>
<thead>
<tr>
<th>series</th>
<th>pipe size</th>
<th>exhaust protector (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>551</td>
<td>G 1/8</td>
<td>3460418 (1)</td>
</tr>
</tbody>
</table>

(1) Supplied with suffix “SL”.

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>type</th>
<th>prefix option</th>
<th>weight (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
<td>1.45</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.96</td>
</tr>
<tr>
<td>02</td>
<td>WP</td>
<td>1.62</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.23</td>
</tr>
</tbody>
</table>

(1) Including coil(s), connector (SC) and cable gland (WP).

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
<th>suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>G 551 A 403</td>
<td>230V / 50 Hz</td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>G 551 A 403 SL</td>
<td>230V / 50 Hz</td>
<td></td>
</tr>
<tr>
<td>WP</td>
<td>G 551 A 404</td>
<td>115V / 50 Hz</td>
<td>MO</td>
</tr>
<tr>
<td>WPHT</td>
<td>G 551 A 404 MO</td>
<td>230V / 50 Hz</td>
<td></td>
</tr>
</tbody>
</table>

A  Interface plate
B  Mounting: 2 CHc M5x35 screws, engaged length 7 mm
C  One 5 mm dia. hole for dowel pin:
   - in position C1: 3/2 NC function plate
   - in position C2: 5/2 function plate
D  2 O-ring seals (supplied)
E  Exhaust reducer or exhaust protector G 1/8

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