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 2 - 10 bar [1 bar = 100 kPa]
Flow (Qv at 6 bar) 700 l/min (ANR)
Pilot mounting interface surface ISO 15218 (CNOMO E06.36.120N, size 15)

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
Temperature range Ambient: -40°C to +75°C

Specifications
Pipe size: 1/4, orifice size: 6, flow coefficient: 0.6, operating pressure differential (bar): 10, power coil (W): 10.5, catalogue number: SCG551A403

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

- Valves configured for external pilot air supply, use TPL 20547
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX-Directive 2014/34/EU (see "Explosionproof Solenoids" section)
- 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
- Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)

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</th>
<th>options</th>
</tr>
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<tbody>
<tr>
<td>551</td>
<td>G 1/8</td>
<td>(stainless steel)</td>
<td></td>
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</table>

ORDERING EXAMPLES:

- SC G 551 A 403 230V / 50 Hz
- SC G 551 A 403 SL 230V / 50 Hz
- WP G 551 A 404 24V / DC
- WP G 551 A 403 MO 115V / 50 Hz
- WPHT G 551 A 404 MO 230V / 50 Hz

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>type</th>
<th>prefix option</th>
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<tr>
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<tr>
<td>02</td>
<td>WP</td>
<td>1.62</td>
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</tbody>
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(1) Including coil(s), connector (SC) and cable gland (WP).

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