Solenoid Valves
single/dual pilot operated
aluminium body -40°C
“NAMUR” style 1/4

Features
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2, version) have TÜV (551 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The NAMUR version has all ports on the same side and with the same threads for a better resistance to water, dust and better fitting connection
- The valve technology offers environmental protection against the ingress of liquids, dusts or any 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 solenoid valves exist with all protection mode: Ex d, Ex e mb, Ex m and Ex ia

General
- Differential pressure: 2 - 10 bar [1 bar = 100 kPa]
- Flow (Qv at 6 bar): 1/4 = 700 l/min (ANR)

Materials in Contact with Fluid
(*) Ensure that the compatibility of the fluids in contact with the materials is verified
- Body: Aluminium, black anodized with PBT spring return
- End cover (spring return): Glass-filled PA
- Interface plates: Glass-filled PA
- Spool valve internal parts: Zamak, stainless steel, (POM), aluminium
- Pilot internal parts: Refer to specific solenoid catalogue pages
- Pilot end covers: Aluminium
- Core tube: Stainless steel
- Core and plugnut: Stainless steel
- Core spring: Stainless steel
- Seals: NBR + PUR
- Top disc: PA
- Disc holder: POM
- Cartridge (low power): Welded, packless AISI 430
- Seat: Brass
- Seat insert: POM
- Shading coil: Copper
- Rider rings (low power): PTFE

Construction
- Screws of valve assembly: Stainless steel

Specifications

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>kv</th>
<th>operating pressure differential (bar)</th>
<th>flow coefficient</th>
<th>power level</th>
<th>prefix optional solenoids</th>
<th>basic catalogue number</th>
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<td>3/2 NC - 5/2 function (single solenoid)</td>
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<td>3/2 NC - 5/2 function (dual solenoid)</td>
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SOLENOID VALVES
single/dual pilot operated
aluminium body -40°C, 1/4

FEATURES
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2; version) have TÜV (551 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The spool valve exists in 3/2 NC, 5/2, threaded ports
- The valve offers environmental protection against the ingress of liquids, dusts or any 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 solenoid valves exist with all protection mode: Ex d, Ex e mb, Ex m and Ex ia

GENERAL
Differential pressure 2 - 10 bar [1 bar = 100 kPa]
Flow (Qv at 6 bar) 1/4 = 860 l/min (ANR)

<table>
<thead>
<tr>
<th>fluids (*)</th>
<th>temperature range (°C)</th>
<th>seal materials (*)</th>
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</thead>
<tbody>
<tr>
<td>air, inert gas, filtered</td>
<td>-40°C to +60°C</td>
<td>NBR (nitrile) + PUR (polyurethane)</td>
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</tbody>
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MATERIALS IN CONTACT WITH FLUID
(*) Ensure that the compatibility of the fluids in contact with the materials is verified.
Body: Aluminium, black anodized with PBT spring return
End cover (spring return): Glass-filled PA
Spool valve internal parts: Zamak, stainless steel, (POM), aluminium
Pilot internal parts: Refer to specific solenoid catalogue pages
Pilot end covers: Stainless steel
Core tube: Stainless steel
Core and plug nut: Stainless steel
Core spring: Stainless steel
Seals: NBR + PUR
Top disc: PA
Disc holder: POM
Cartridge (low power): Welded, packless AISI 430
Seat: Brass
Seat insert: POM
Shading coil: Copper
Rider rings (low power): PTFE

CONSTRUCTION
Screws of valve assembly: Stainless steel

SPECIFICATIONS

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<tr>
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<td>(mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
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<td>5/2 - Solenoid air pilot operated - spring return (monostable)</td>
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Select 8 for NPT ANSI 1.20.3 or select G for ISO G (228/1)Available feature ○ Available feature in DC only Not available
(1) Certified IEC 61508 Functional Safety data, use suffix “SL”
(2) Zero minimum is only achieved if external pressure is applied.