SOLENOID VALVES

direct operated, high flow balanced poppet

1/4 - 1/2

FEATURES

• The valves are certified according to IEC 61508 Functional Safety data and have SIL-3 capability (TÜV & Exida certification)
• The solenoid valves are recommended for pilot applications with basic flow (Ø5.5 mm) or high flow (Ø12 mm), wide pressure ranges and no minimum operating pressure
• PTFE rider rings and graphite-filled PTFE seals reduce friction and eliminate sticking
• Dedicated execution for extreme low ambient temperatures
• The solenoid valves satisfy all relevant EU directives
• Manual Operators are optional including an under pressure removable type

GENERAL

Differential pressure 0 - 10 bar [1 bar =100 kPa]
Maximum viscosity 65 cSt (mm²/s)
Response time < 100 ms

MATERIALS IN CONTACT WITH FLUID

(-) Ensure that the compatibility of the fluids in contact with the materials is verified
Body Brass or stainless steel AISI 316L
Stem, core tube Stainless steel
Core and plugnut Stainless steel
Springs Stainless steel
Seals & poppets Ø 5.7 mm: FPM or VMQ or (F)VMQ
Ø 12 mm: NBR or FPM or (F)VMQ
Rider ring PTFE

ELECTRICAL CHARACTERISTICS

Coil insulation class H
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

SPECIFICATIONS

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

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

- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU (see “Explosionproof solenoids” section)
- Compliance with “UL”, “CSA” and other local approvals available on request
- 3/8” pipe thread executions are available on request
- Manual reset construction
- Stainless steel exhaust protector for valves certified to IEC 61508 Functional Safety, catalogue number: 34600419 (G1/4) or 34600479 (G1/2)
- 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
- Solenoid valves have 2 or 3 mounting holes in body
- Pipe connection identifier is G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

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<th>catalogue number</th>
<th>spare parts kit no.</th>
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ORDERING EXAMPLES:

- SC G 327 B 001 230V / 50 Hz
- SC G 327 B 101 MS 115V / 50 Hz
- SC G 327 A 647 24V / DC
- SC G 327 B 002 MO 230V / 50 Hz

ORDERING EXAMPLES KITS:

C123669(1) C132251 C132640

(1) Standard prefixes/suffixes are also applicable to kits.

DIMENSIONS (mm), WEIGHT (kg)

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(2) including coil and connector.

Manual operator location (Type MO/MS)

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