The directional solenoid valve WSM03230C is a direct-acting, spring-loaded poppet valve.
When de-energized, there is flow through the WSM03230C from port 2 to port 3, and port 1 is closed. When the solenoid is energized, the valve allows flow from port 1 to 2, while blocking flow at port 3.

**FUNCTION**

The directional solenoid valve WSM03230C-01

**FEATURES**

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid

**SPECIFICATIONS**

- **Operating pressure:** max. 500 bar
- **Nominal flow:** max. 12 l/min
- **Internal leakage:** Leakage-free (max. 5 drops/min)
- **Temperature range of operating fluid:** min. -20 °C to max. +120 °C
- **Ambient temperature range:** min. -20 °C to max. +60 °C
- **Operating fluid:** Hydraulic oil to DIN 51524 Part 1 and 2
- **Viscosity range:** min. 7.4 mm²/s up to max. 380 mm²/s
- **Filtration:** Class 21/19/16 to ISO 4406 or cleaner
- **MTTF:** 150 years
- **Installation:** No orientation restrictions
- **Materials:**
  - Valve body: free-cutting steel
  - Poppet: hardened and ground steel
  - Seals: FKM (standard)
  - NBR (optional, temperature range -20 °C to max. +100 °C)
  - Back-up rings: PTFE
  - Coil: steel / polyamide
- **Cavity:** 03230
- **Weight:**
  - Complete valve: 0.45 kg
  - Coil only: 0.23 kg
- **Electrical data:**
  - Type of voltage: DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil
  - Current draw at 20 °C:
    - 2.22 A / 5.4 Ohm at 12 V DC
    - 1.13 A / 21.2 Ohm at 24 V DC
  - Voltage tolerance: ± 15% of nominal
  - Coil duty rating: Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature
  - Response time:
    - On: approx. 35 ms
    - Off: approx. 25 ms
  - Coil type: Coil…-50-1836
**DIMENSIONS**

After loosening mounting nut, coil can be rotated through 360° and removed.

**OPERATING LIMITS**

**CAVITY**

**MODEL CODE**

WSM03230C - 01 M - C - V - 24 DG

**Basic model**
Directional poppet valve, metric

**Type**
- 01 = standard

**Manual override**
- No details = without manual override
- M = manual override

**Body and ports**
- C = cartridge only

**Seals**
- V = FKM (standard)
- N = NBR (optional)

**Coil voltage**

**DC voltages**
- 12 = 12 V DC
- 24 = 24 V DC

**AC voltages**
- (bridge rectifier built into the coil)
- 115 = 115 V AC
- 230 = 230 V AC

**Coil connectors (type 50-1836)**

**DC**:
- DG = DIN connector to EN 175301-803
- DT = AMP Junior Timer, 2-pole, radial
- DK = KOSTAL threaded connection M27x1
- DL = 2 flying leads, 457 mm long, 0.75 mm²
- DN = Deutsch connector, 2-pole, axial

**AC**: AG = DIN connector to EN 175301-803

**Standard models**

<table>
<thead>
<tr>
<th>Model code</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>WSM03230C-01-C-V-12DG</td>
<td>3711402</td>
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<tr>
<td>WSM03230C-01-C-V-24DG</td>
<td>3711368</td>
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<tr>
<td>WSM03230C-01-C-V-230AG</td>
<td>3711372</td>
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</tbody>
</table>

**Other models on request**

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Material</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEAL KIT WSM03230 C/D</td>
<td>FPM</td>
<td>3760527</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at $v = 33 \text{ mm}^2/\text{s}$, $T_\text{oil} = 46 ^\circ\text{C}$

**NOTE**

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.