Sandwich valve module with relief valve and solenoid by-pass


Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flow</td>
<td>up to 20 l/min (5 gpm)</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>210 bar (3000 psi)</td>
</tr>
</tbody>
</table>

Standard manifold in high strength aluminium.
For working pressure up to 350 bar (5000 psi) and for fatigue applications with any working pressure, steel manifolds are available upon request.

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Other technical data
See data sheet 18350-50
**Cartridge valve VSBN-08A** (see data sheet 18318-04)

**Dimensions [mm (inches)]**

**Solenoid cartridge valve VEI-16-08A**
(see data sheets 18323-25 and 18323-26)

**Technical data**

**General**
- Installation orientation: Unrestricted
- Ambient temperature range: -30 to 90 °C (-22 to 194 °F)

**Hydraulic**
- Max. operating pressure: 350 bar (5000 psi)
- Flow range: 0.5 - 40 l/min (0.1 - 11 gpm)
- Max. internal leakage: 5 drops/min.
- Switching time: Opening ≤ 50 ms
  Closing ≤ 100 ms
- Fluid temperature range: -20 to 80 °C (-4 to 176 °F)
- Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)
- Installation torque: 39 - 51 Nm (29 - 38 ft-lbs)
- Recommended degree of fluid contamination: Nominal value max. 10 µm (NAS 8) ISO 4406 19/17/14
- MTTFd: 150 years (see 18350-51)
- Cavity: CA-08A-2N
- Other technical data: See data sheet 18350-70

**Electrical**
- Type of voltage: DC voltage
- Coil type: D36
- Supply voltage: See data sheet 18325-90
- Voltage tolerance against ambient temperature: See characteristic curve
- Power consumption: 20 W
- Type of protection: See data sheet 18325-90

**Note:** Coils must be ordered separately
Characteristic curves

VBSN-08A

VEI-16-08A all Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

VEI-16-08A all Versions
Ordering code

<table>
<thead>
<tr>
<th>OP.35</th>
<th>K</th>
<th>X</th>
<th>29</th>
<th>Y</th>
<th>Z</th>
</tr>
</thead>
</table>

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**Configuration 01**

Configuration 02

See page 1

**Solenoid cartridge seals and accessories options**

- **0** = With buna seal
- **V** = With Viton seal
- **P** = With buna seal and protective cap for override version B, C and D
- **T** = With Viton seal and protective cap for override version B, C and D

**Cartridge valve VSBN-08A setting**

See page 2

**Solenoid cartridge options**

- **A** = Standard
- **B** = Push style manual override
- **C** = Push and twist style manual override
- **D** = Knob style manual override
- **E** = Pull style manual override
- **F** = Hand operated pull style manual override

**Flange CETOP 3 (DOT 3)**

**Note:** for solutions availability (K-Y-Z combinations), please refer to TAB.1 on page 2.