**Technical Features**

- Valve is primarily used in clutch control application typically in mobile transmissions.
- Excellent stability throughout flow range with rapid response to proportional current input change.
- Low hysteresis, accurate pressure control and low pressure drop through CFD optimized flow paths.
- Precise pressure control vs current and excellent repeatability.
- Integrated relief function for protection against pressure peaks.
- Solenoid electrical terminal AMP Junior Timer or Deutsch DT04-2P.
- 12 or 24 V DC coils.
- Compact design with reduced solenoid dimensions for production cost savings.
- High flow capacity and low coil power consumption.
- Optional mesh screen.
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227.

**Functional Description**

A direct-operated, spool-type hydraulic pressure reducing valve in the form of a slip-in cartridge. Reduced pressure output is proportional to DC current input. This valve is intended for use as a pressure limiting device. Note: Consult factory for special OEM versions of this product.

**Technical Data**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>no mesh screen</th>
<th>with mesh screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbol</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valve size / Cartridge cavity</th>
<th>D20 / W3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. operating pressure (port P)</td>
<td>bar (PSI)</td>
</tr>
<tr>
<td>Max. reducing pressure (port A)</td>
<td>bar (PSI)</td>
</tr>
<tr>
<td>Max. flow rate P-A</td>
<td>l/min (GPM)</td>
</tr>
<tr>
<td>Fluid temperature range (NBR)</td>
<td>°C (°F)</td>
</tr>
<tr>
<td>Fluid temperature range (PPA)</td>
<td>°C (°F)</td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>°C (°F)</td>
</tr>
<tr>
<td>Response time at 100% signal</td>
<td>ms</td>
</tr>
</tbody>
</table>

**Solenoid data**

- Supply voltage: 12 DC, 24 DC.
- Max. current: 1 A.
- Rated resistance at 20 °C (68 °F): 7.2±6.5%, 11.2±6.5%.
- Duty cycle: 100%.
- Optimal PWM frequency: 100 Hz.
- Quenching diode: BZW06-28B, BZW06-33B.
- Enclosure type acc. to EN 60529**: IP67 / IP69K.
- Weight: 0.4 (0.88) kg (lbs).

**Dimensions**

- Connector type:
  - E3, E4 - IP67.
  - AMP Junior Timer.
  - E12, E13 - IP67 / IP69K.
  - Deutsch DT04-2P.

---

**Dimensions in millimeters (inches)**

- **Connector type E12, E13 - IP67 / IP69K**
  - 66.2 (2.61)
  - 72.1 (2.84)
  - 84.1 (3.31)

- **Connector type Deutsch DT04-2P**
  - 240 (9.45)
  - 59 (2.32)
  - 110 (4.33)

---

**Subject to change · PP2P3-W3_5147_4en_06/2021**

www.argo-hytos.com
Besides the shown, commonly used valve versions other special models are available. Contact our technical support for their identification, feasibility and operating limits.