Accumulator Charging Unit SLE 02

The accumulator charging unit SLE 02 is a compact function element, which offers in an optimum way the requirements of the modern accumulator charging technique.

With smooth, hydraulically controlled switching the system pressure is monitored and held to the chosen pressure level. Low power losses allow an energy optimised system and simultaneously provides, at low driving power, the possibility of high peak capacity.

All functions and safety relevant components are integrated in the unit. The compact block assembly results in reduced pipe work.

As a standard component the SLE 02 operates for pump flow rates up to 75 l/min. Additional optional modular components are available.
Specifications

- integration of all function and safety relevant components
- compact design, simple start up, handling without problems
- high availability, robust and proven function components
- optimised power consumption results in reduced heat emission to the hydraulic system

Options

- electrical accumulator discharge / unpressurised electric motor start up
- pressure switch for additional system pressure monitoring
- emergency dump valve

Technical data SLE 02

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting method</td>
<td>2 x M10 x 120</td>
</tr>
<tr>
<td>Connection of port</td>
<td>see connection size</td>
</tr>
<tr>
<td>Mounting position</td>
<td>mountable in any position</td>
</tr>
<tr>
<td>Ambient temperature °C</td>
<td>-5 to 50</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP 65</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydraulic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump flow rate l/min</td>
<td>75</td>
</tr>
<tr>
<td>Operating pressure max. bar</td>
<td>315</td>
</tr>
<tr>
<td>Hydraulic oil temperature °C</td>
<td>-5 to 70</td>
</tr>
<tr>
<td>Viscosity range mm²/s</td>
<td>10 to 300</td>
</tr>
<tr>
<td>Pressure steps bar</td>
<td>20-45; 45-80; 80-120; 120-175; 175-250; 250-315</td>
</tr>
<tr>
<td>Switching hysteresis %</td>
<td>5; 10; 15; 20</td>
</tr>
</tbody>
</table>

Characteristic curve, by-pass pressure P-T, for hydraulic oil 35 mm²/s, 50°C

![Characteristic curve](image-url)
Hydraulic circuit

1. accumulator charging main block
2. check valve
3. safety valve (type checked)
4. accumulator charging valve
5. pressure gauge
6. accumulator discharge, manual
7. option: electrical accumulator discharge
8. option: pressure switch for system pressure
Dimension drawing

1. accumulator charging main block
2. check valve
3. safety valve (type checked)
4. accumulator charging valve
5. pressure gauge
6. accumulator discharge, manual
7. option: electrical accumulator discharge
8. option: pressure switch for system pressure

all dimensions in mm
Type code

![Diagram of Type code with explanation]

- **Id.-No.**
- **Accumulator charging unit SLE 02**
- **Switching hysteresis**
  - (0=5%, 1=10%, 2=15%, 3=20%)
- **Pressure range**
  - accumulator charging valve
  - (maximum adjustable pressure: 45, 80, 120, 175, 250, 315 bar)
- **Safety valve, pressure protection**
- **Connection size**
- **Design code**
  - 1 = with electric discharge
  - 0 = without electric discharge
- **Voltage / Frequency**
  - 24/0 = 24V DC
  - 220/5 = 230V/50Hz

**Connection size G5**

<table>
<thead>
<tr>
<th>P from pump</th>
<th>P/P1</th>
<th>G ¾</th>
</tr>
</thead>
<tbody>
<tr>
<td>P to consumer</td>
<td>PV</td>
<td>G ¾</td>
</tr>
<tr>
<td>T by-pass</td>
<td>T/T1</td>
<td>G ¾</td>
</tr>
<tr>
<td>T control oil</td>
<td>Ty</td>
<td>G ¾</td>
</tr>
<tr>
<td>accumulator</td>
<td>S</td>
<td>M 33 x 1.5</td>
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</table>