Accumulator Charging Valve Kit / Block Mounting
Technical Data Sheet
### Technical Data

#### General
- **Type of valve**: piloted piston valve
- **Mounting**: 4x M6x30 DIN912
- **Connection of ports**: block mounting
- **Ambient temperature**: -5 to +50 °C
- **Mounting positions**: mountable in any position
- **Masse Ventil**: 0.8 kg

#### Hydraulic
- **Operation pressure range**: 20-60; 45-80; 80-120; 120-175; 175-250; 250-315 bar
- **Switching hysteresis**: 5; 10; 15 or 20 %
- **Hydraulic oil temperature**: -10 to +70 °C
- **Viscosity range**: 10 to 300 mm²/s
- **Max. rate of flow**: 90 NW12; 180 NW16 l/min

### Design and Function

Accumulator charging valves are piloted piston valves. The valve controls the hydraulic accumulator charging process, for systems with fixed displacement pumps. After the accumulator has been charged and system pressure is reached, the valve then switches the pump flow into bypass mode (P to T). When the pressure falls because functions are demanding flow, the valve will sense the difference and will close the bypass to allow the accumulator to recharge. Pressure differences available include: 5%, 10%, 15% and 20%. The accumulator charging valve for block mounting can be supplied as kit for the direct mounting on manifolds. Manufacturing dimensions for the hole cavity are included on this data sheet.

### Advantages
- Optimised power economy and reduced heat emission from the hydraulic system
- Energy saving due to low bypass pressure
- Fixed switching hysteresis, simple start up procedure
- Soft and exact switching over due to pressure pre-relieve
- Robust and reliable through simple design

### Options
- Electrical discharge
- Complete accumulator charging units

### Symbol, detailiert

### Symbol

### Volume Flow Characteristic Curve, Bypass Valve

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hydraulic oil 35 mm²/s, 50°C
Dimensional Drawing, Pilot Valve

Dimensional Drawing Bore Cavity, Bypass Valve

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>NW12</td>
<td>20H7</td>
<td>300.1</td>
<td>14</td>
<td>10</td>
</tr>
<tr>
<td>NW16</td>
<td>26H7</td>
<td>400.1</td>
<td>16</td>
<td>12</td>
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</tbody>
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dimensions in mm
**Type Code, pre pilot valve**

Dk 55 . 1 - 6 - 120 P - 391 Ky

- external pilot oil drain
- adjustment method
  - S = setting screw
  - K = cover
- design code
  - 391 correspond NW 12
  - 3215 correspond NW 16
- design
- maximal adjustable pressure
  - 60, 80, 120, 175, 250, 315 bar
- nominal size
- switching hysteresis
  - (0 = 5%, 1 = 10%, 2 = 15%, 3 = 20%)
- symbol
- pressure valve, piloted
- material number

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