Accumulator Charging Valve
NG 6 ISO 4401
Technical Data Sheet
Technical Data

General
Type of valve: piloted piston valve
Mounting: 4x M5x60 DIN912
Connection of ports: mounting plate
Ambient temperature: -5 to +50 °C
Mounting positions: mountable in any positions
Mass valve: 2.0 kg

Hydraulic
Pressure stages: 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
Flow rate: max. 30 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%.

Advantages
• optimised power consumption 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
• accumulator charging valve kit for manifold mounting

Characterstic curve

hydraulic oil 35 mm²/s, 50°C
Port Connection Pattern

<table>
<thead>
<tr>
<th></th>
<th>P</th>
<th>A</th>
<th>T</th>
<th>B</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø max [mm]</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>x [mm]</td>
<td>21.5</td>
<td>12.7</td>
<td>21.5</td>
<td>30.2</td>
<td>0</td>
<td>40.5</td>
<td>40.5</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>y [mm]</td>
<td>25.9</td>
<td>15.5</td>
<td>5.1</td>
<td>15.5</td>
<td>0</td>
<td>-0.75</td>
<td>31.75</td>
<td>31</td>
<td>31.75</td>
</tr>
</tbody>
</table>

F: M5, thread depth min. 1.5 x Ø
G: bore depth min. 1.5 x Ø
Various single or multiple manifolds are available.
Type Code

Dy 55. 1 - 6 - 120 P - 391 K y

- external control oil return
- adjustment method
  - S= setting screw
  - K= cover
- design code
- design
- pressure stages, max. set 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

Original-Sprache: deutsch.
Rechtlich bindende Sprachversion: deutsch.