Operating Instructions and Spare Parts List

HRC 1 Hose Rinsing Control
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HRC 1 Hose Rinsing Control

1. Description

Powder hoses for up to 10 guns can be rinsed with HRC 1 Hose rinsing control unit. Each gun can be rinsed individually, whereby the rinsing air pressure is the same for each gun. The solenoid in the HRC 1 is switched on or off, as required, by a higher hierarchy control system (GEMA-VOLSTATIC - PLC Control). A special PI 4-V (or PI 2-V) injector is used to rinse the powder hoses.

The exact hose rinsing pressure must only be set once with the pressure reducing valve in the HRC 1 and afterwards left at this setting.

![HRC 1 Powder hose rinsing unit, inside view](image)

2. Technical Data:

General data:
- Maximum number of guns which can be connected = 10

Pneumatic data:
- Compressed air input: 7-10 bar
- Air consumption: 4Nm³/h per gun, depending on the number of guns connected.

Max. water content: 1.3 g/m³
Max. oil content: 0.1 ppm

Electrical data of the solenoid valve:
- Rinsing voltage: 24 VDC
- Rinsing power: 8 W
3. Setting the rinsing pressure

The pressure to be set is dependent on the type, and characteristics of the powder, the length, and the number of bends in the powder hose.

The rinsing powder pressure need only be set once on the pressure reducing valve in the HRC 1 control unit and afterwards can be left at this setting.

![Figure 2](image)

The pressure should be set so that the powder hose is rinsed, but powder is not sucked into the injector, and air is not blown back into the powder hopper.

4. Changing the solenoid valve

If a solenoid valve must be replaced, loosen only those screws which are not marked with red paint.

When replacing the solenoid valve please observe that the two O-rings on the underside of the solenoid valve are seated correctly, and are not missing.
Pneumatic diagram

Pressure reducing valve 0 - 4 bar

Compressed air input
6 bar / 40 Nm³/h

Gun 1 = 4 Nm³/h
8 solenoid valves
for 2 - 9 guns,
1 solenoid valve
per gun

Gun 10 = 4 Nm³/h

Figure 3
### Spare Parts List

**HRC 1 Hose Rinsing Control**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Quick-release connection</td>
<td>236 004</td>
</tr>
<tr>
<td>2</td>
<td>Quick-release elbow connection</td>
<td>203 050</td>
</tr>
<tr>
<td>3</td>
<td>Mounting plate for 10 solenoid valves</td>
<td>239 739</td>
</tr>
<tr>
<td>4</td>
<td>Solenoid valve</td>
<td>239 720</td>
</tr>
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<td>4.1</td>
<td>O-Ring</td>
<td>240 265</td>
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<td>5</td>
<td>Quick-release T-connection</td>
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<td>6</td>
<td>Adapter</td>
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<td>7</td>
<td>Elbow connection</td>
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<td>8</td>
<td>Main compressed air input</td>
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<td>9</td>
<td>Pressure gauge</td>
<td>239 712</td>
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<td>10</td>
<td>Pressure reducing valve</td>
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<td>11</td>
<td>Mains connection for solenoid valves</td>
<td>240 044</td>
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</tbody>
</table>

Powder hose, black ø 8 / 6 mm 103 152
HRC 1 Hose Rinsing Control

Figure 4