HYDRAULIC PILOT
REMOTE CONTROL JOYSTICKS

Type : HL-4TH

Benefits:
- Progressive, sensitive operation
- Low actuation forces
- Low force deviations when lever is actuated
- Several ergonomic grips with various E contacts
- All connections point downwards
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Features

1. Structure
   - Integrated body, stable and reliable in work
   - Control characteristic constant
   - Sealing structure with dustproof

2. Applications

- Excavator
- Tractor Loader Backhoes
- Wheel loaders
- Cranes
Section view

1. Valve body
2. Valve cover
3. Rubber boot
4. Rod seat
5. Spring seat
6. Spring
7. Spool
## Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working medium</td>
<td>Hydraulic oil</td>
</tr>
<tr>
<td>Pressure fluid temperature range</td>
<td>-20℃ ~+90℃</td>
</tr>
<tr>
<td>Viscosity range</td>
<td>10~380 mm² /S</td>
</tr>
<tr>
<td>Inlet pressure</td>
<td>69bar</td>
</tr>
<tr>
<td>Back pressure at port T</td>
<td>≤ 3bar</td>
</tr>
<tr>
<td>Pilot oil flow</td>
<td>≤ 20L/min</td>
</tr>
<tr>
<td>Function symbol</td>
<td>(Figure)</td>
</tr>
<tr>
<td>Control range</td>
<td>(Figure)</td>
</tr>
<tr>
<td>Switch Type</td>
<td></td>
</tr>
<tr>
<td>The specified electricity is loaded</td>
<td>DC30V 5A, AC125/225V 5A</td>
</tr>
</tbody>
</table>
Ordering code

1  HL  Company is called HL for short.

2  4TH  4 way multi-way valve.

3  E32  The handle according with human engineering design, means the left handle, with horn symbol, rod bending 15 degrees to the 3 port, the handle to the 2 port.

4  E12  The right handle, without symbol, rod bending 15 degrees to the 1 port, the handle to the 2 port.

Notes: The mounting position of the handle relative to the port can be assembled according to the customer’s requirements.

4  Control ranges 01 (figure);
02  Means control ranges 02 (figure).

5  The size of inlet, outlet and working port is G1/4
03  The size of inlet is G1/4, outlet and working port is G3/8

6  Seal:
H  Cold-resistant seal element
R  Hot-resistant seal element
Ellipsis  The normal seal element

Fuction symbol
Control ranges

Control ranges (Port 1,2,3,4)

Control ranges (Port 1,3)

Control ranges (Port 2,4)
Control ranges

Control ranges (Port 1,2,3,4)

Control ranges (Port 1,3)

Control ranges (Port 2,4)

Control ranges (Port 1,2,3,4)

Control ranges (Port 1,3)

Control ranges (Port 2,4)
Control ranges

Control ranges (Port 1,2,3,4)

Control ranges (Port 1,3)

Control ranges (Port 2,4)
Unit dimensions

Left handle

Right handle

A Direction

B Direction

Left handle

A Direction

B Direction