Auxiliary hand levers for solenoid valves

direct operated on-off and proportional, ISO 4401 size 06

Auxiliary hand levers for direct operated on-off solenoid valves size 06, type DHI, DHE, DHA and proportional valves size 06, type DHZO, DHZE, DHZA and QVHZO.

This option allows to operate the valves in absence of electrical power supply, i.e. during commissioning, maintenance or in case of emergency.

It is available with two different configurations depending to the installation requirements:
- MV = lever positioned vertically (perpendicular to the valve axis)
- MO = lever positioned horizontally (parallel to the valve axis)

When the valve is electrically operated the hand lever remains stopped in its rest position.

The hand lever execution does not affect the performances of the original valves.

### TABLE E138-7/E

#### 1 MODEL CODE FOR ON-OFF DIRECTIONAL VALVES

<table>
<thead>
<tr>
<th>Code</th>
<th>Spools</th>
<th>Voltage</th>
<th>Seals material</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHE-0</td>
<td>63 1/2</td>
<td>MV-24 DC</td>
<td>- = NBR, PE = FKM, BT = HNBR</td>
</tr>
</tbody>
</table>

**Seals material:**
- NBR
- FKM
- HNBR

**Series number:**
- Only for DHI and DHE:
  - 00 = solenoids without coils, for DHI valve
  - 00-AC = AC solenoids without coils, for DHE valve
  - 00-DC = DC solenoids without coils, for DHE valve
  - X = without connector

### 2 MODEL CODE FOR PROPORTIONAL DIRECTIONAL VALVES AND FLOW CONTROL VALVES

<table>
<thead>
<tr>
<th>Code</th>
<th>Spools</th>
<th>Voltage</th>
<th>Seals material</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHZO</td>
<td>A 0 71</td>
<td>S5 MV</td>
<td>- = NBR, PE = FKM, BT = HNBR</td>
</tr>
</tbody>
</table>

**Seals material:**
- NBR
- FKM
- HNBR

**Coil option:**
- Only for DHZA and QVHZO:
  - O = Horizontal cable entrance (only for DHZA)
  - Y = External drain (only for DHZA, DHZO)

### Coil option:

**Spool size (for DHZ*):**
- S3 - S5 - D3 - D5 - L3 - L5

**Max regulated flow (for QVHZO):**
- 3 - 12 - 18 - 36 - 45 l/min

#### Options:
- MO = horizontal hand lever (not for DHA)
- MV = vertical hand lever
- AMO = horizontal hand lever installed at the side of port B (not for DHA)
- AMV = vertical hand lever installed at the side of port B

(1) For DHA model code see table E120 (Multicertification) or E125 (UL)

(2) For DHZA model code see table F600 (Multicertification) or E125 (UL)

(1) Valves with position transducer (-T) and/or integrated electronics (only double solenoid valves -TE/-AE) available on request.

(2) Valves with position transducer (-T) and/or integrated electronics (only double solenoid valves -TE/-AE) available on request.
LEVER CHARACTERISTICS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total angle stroke [°deg]</td>
<td>± 28</td>
</tr>
<tr>
<td>Working angle stroke [°deg]</td>
<td>± 15</td>
</tr>
<tr>
<td>Lever actuating force [N]</td>
<td>1 ÷ 8</td>
</tr>
<tr>
<td>Lever device weight [g]</td>
<td>880</td>
</tr>
</tbody>
</table>

INSTALLATION DIMENSIONS [mm]

DHZO-A-05*/MV (dotted line)
- Mass: 2.8 kg (single solenoid)
- Mass: 3.0 kg (double solenoid)

DHZO-A-07*/MV (dotted line)
- Mass: 2.8 kg (single solenoid)
- Mass: 3.0 kg (double solenoid)

DHI-06*/MV
- Mass: 2.4 kg (single solenoid)
- Mass: 2.7 kg (double solenoid)

DHI-07*/MV (dotted line)
- Mass: 2.4 kg (single solenoid)
- Mass: 2.7 kg (double solenoid)

DHE-06*/MV (dotted line)
- Mass: 2.7 kg (single solenoid)
- Mass: 3.0 kg (double solenoid)

DHE-07*/MV
- Mass: 2.7 kg (single solenoid)
- Mass: 3.0 kg (double solenoid)

QVHZO-A-06*/MV
- Mass: 3.2 kg

Horizontal hand lever device /MO, /AMO
- Mass: 3.2 kg

DHA/-06*/MV (dotted line)
- Mass: 3.4 kg

DHA/UL/-06*/MV (dotted line)
- Mass: 3.4 kg

DHZ/A/-06*/MV (dotted line)
- Mass: 3.6 kg

DHZ/A/UL/-06*/MV (dotted line)
- Mass: 3.6 kg