Flow control valves type QV-06
pressure compensated, two way, ISO 4401 size 06

QV are flow control valves with pressure compensator (Q): the controlled flow rate is independent of pressure variations.

They are usually supplied with a built-in check valve (Q) to allow the free flow in the opposite direction.

The flow is regulated by turning a graduated micrometer knob (Q). Clockwise rotation increases the flow regulation. Optional versions with locking key (Q) on the adjustment knob are available on request.

Valves designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

Size: 06 - ISO 4401
Max flow: 24 l/min
Max pressure: 250 bar
4 DIAGRAMS based on mineral oil ISO VG 46 at 50°C

4.1 Regulation diagram

1 = QV-06/1
2 = QV-06/6
3 = QV-06/11
4 = QV-06/16
5 = QV-06/24

4.2 Q/Δp diagram through the check valve for free flow B→A

6 = QV-06/*

5 DIMENSIONS [mm]

ISO 4401: 2005
Mounting surface: 4401-03-02-0-05
(see note 1)
Fastening bolts:
4 socket head screws M5×70 class 12.9
Tightening torque = 8 Nm
Seals: 2 OR 117
Diameter of ports A, B: Ø = 7 mm

note 1: the manifold interface has to be provided only of the A and B ports.
The valve cannot be installed on manifolds with ISO 4401-AB-03 interface with P and T ports.

6 MODULAR PLATES TYPE BHQ

The modular plates type BHQ allow the assembling of valves type QV-06 in a modular stack with other components having ISO 4401 size 06 mounting surface. See below for model code and functional sketches; see section 6 for dimensions and example of assembly.

BHQ-011
BHQ-013
BHQ-014
BHQ-016
BHQ-023
BHQ-024
BHQ-012
BHQ-022

ASSEMBLY IN MODULAR STACK
see section 6

1 = Flow control valve type QV-06
Note that the valve(s) is (are) mounted:
• on side port A for BHQ-011, BHQ-013, BHQ-016 and BHQ-023
• on side port B for BHQ-014 and BHQ-024
• on both sides for BHQ-012 and BHQ-022

2 = Modular plate type BHQ, see section 6

3 = Closing element. This element can be on side port A or side port B depending on models. It is not present on BHQ-011, BHQ-016, BHQ-012 and BHQ-022

4 = Directional valve type DH* (ISO 4401 size 06)

Available also version for phosphate ester (add /PE at the end of the model code).

7 MOUNTING PLATES TYPE BA

<table>
<thead>
<tr>
<th>Valve</th>
<th>Subplate model</th>
<th>Ports location</th>
<th>Ports A, B, P, T</th>
<th>Ø Counterbore [mm] A, B, P, T</th>
<th>Mass [Kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QV-06</td>
<td>BA-202/Q</td>
<td>Ports A, B, P, T underneath;</td>
<td>G 3/8&quot;</td>
<td>–</td>
<td>1.2</td>
</tr>
<tr>
<td></td>
<td>BA-204/Q</td>
<td>Ports P, T underneath; Ports A, B on lateral side</td>
<td>G 3/8&quot;</td>
<td>25.5</td>
<td>1.2</td>
</tr>
<tr>
<td></td>
<td>BA-302/Q</td>
<td>Ports A, B, P, T underneath;</td>
<td>G 1/2&quot;</td>
<td>30</td>
<td>1.8</td>
</tr>
</tbody>
</table>