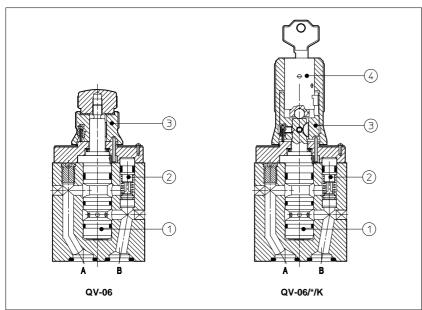




Flow control valves type QV-06

pressure compensated, two way, ISO/Cetop size 03



QV are flow control valves with pressure compensator ①: the controlled flow rate is independent of pressure variations.

They are usually supplied with a built-in check valve ② to allow the free flow in the opposite direction.

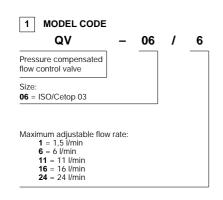
The flow is regulated by turning a graduate micrometer knob ③. Clockwise rotation increases the throttling (passage reduced).

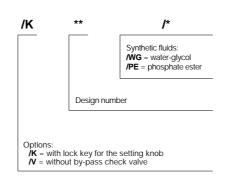
ge reduced).
Optional versions with locking key ④
on the adjustment knob are available
on request.

ISO/Cetop 03 interface.

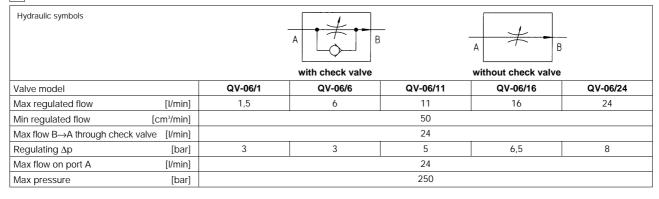
Flow up to 1,5; 6; 11; 16; 24 I/min (depending on models). Pressure up to 250 bar.

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





2 HYDRAULIC CHARACTERISTICS



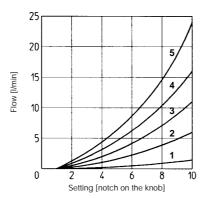
3 MAIN CHARACTERISTICS OF FLOW CONTROL VALVES TYPE QV-06

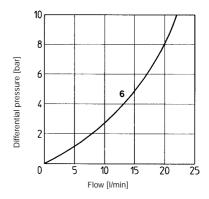
Assembly position / location	Any position
Subplate surface finishing	Roughness index $\sqrt{\frac{0.4}{}}$,flatness ratio 0,01/100 (ISO 1101)
Ambient temperature	-20°C to +70°
Fluid	Hydraulic oil as per DIN 51524 535; for other fluids see section 1
Recommended viscosity	15 ÷ 100 mm²/s at 40°C (ISO VG 15 ÷ 100)
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 μ m value and $\beta_{25} \ge 75$ (recommended)
Fluid temperature	T ≤ 80°C, if T ≥ 60°C select /PE seals

4 DIAGRAMS

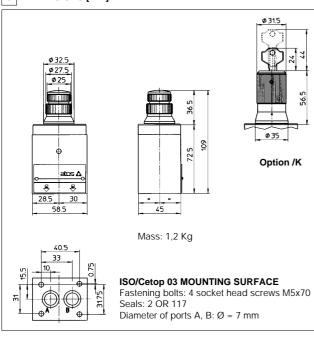
4.1 Regulation diagram

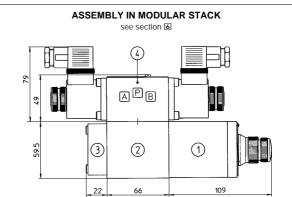
- 1 = QV-06/1
- 2 = QV-06/6
- 3 = QV-06/114 = QV-06/16
- **5** = QV-06/24
- 4.2 Q/ Δp diagram through the check valve for free flow B \rightarrow A
- **6** = QV-06/*





5 DIMENSIONS [mm]

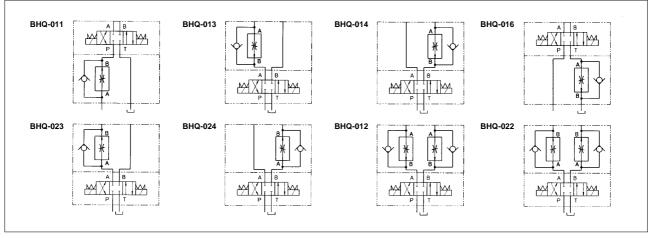




- ① = Flow control valve type QV-06 Note that the valve(s) is (are) mounted:
 - on side port A for BHQ-011, BHQ-013, BHQ-016 and BHQ-023
 - on side port B for BHQ-014 and BHQ-024
 - on both sides for BHQ-012 and BHQ-022
- ② = Modular plate type BHQ, see section 6
- 3 = Closing element. This element can 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/Cetop 03)

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/Cetop 03 mounting surface. See below for model code and functional sketches; see section [3] for dimensions and example of assembly.



Available also version for water-glycol and for phosphate ester (add respectively /WG and /PE at the end of the model code). The plates type BHQ are supplied with 4 fastening bolts M5x70 (8 for BHQ-012 and BHQ-022) to fix one (or two) QV-06 which are supplied without fastening bolts.

7 MOUNTING PLATES TYPE BA

Valve	Subplate model	Ports location	BSP ports A, B, P, T	Ø Counterbore [mm] A, B, P, T	Mass [Kg]
QV-06	BA-202/Q	Ports A, B, P, T underneath;	3/8"	-	1,2
	BA-204/Q	Ports P, T underneath; Ports A, B on lateral side	3/8"	25,5	1,2
	BA-302/Q	Ports A, B, P, T underneath;	1/2"	30	1,8