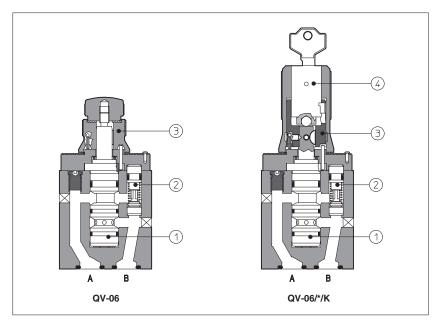


Flow control valves type QV-06

pressure compensated, two way, ISO 4401 size 06



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 flow regulation.

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

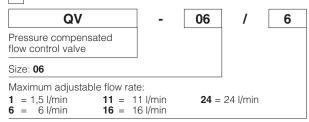
ISO 4401 size 06.

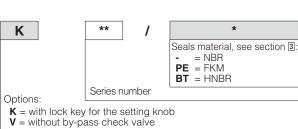
Flow up to 1,5; 6; 11; 16; 24 I/min (depending on models).

Pressure up to 250 bar.

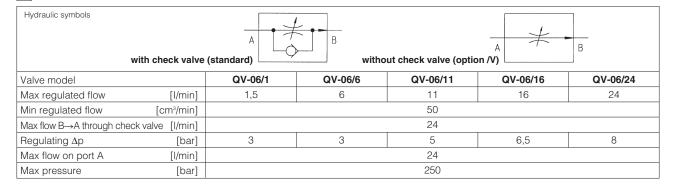
Valves designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.







2 HYDRAULIC CHARACTERISTICS



3 MAIN CHARACTERISTICS, SEALS AND FLUIDS - for other fluids not included in below table, consult our technical office

Assembly position	Any position				
Ambient temperature	Standard = -30° C ÷ $+70^{\circ}$ C	PE option = -20° C ÷ $+70^{\circ}$ C /E	$BT option = -40^{\circ}C \div +70^{\circ}C$		
Seals, recommended fluid temperature	NBR seals (standard) = -20° C \div +60°C, with HFC hydraulic fluids = -20° C \div +50°C FKM seals (/PE option) = -20° C \div +80°C HNBR seals (/BT option) = -40° C \div +60°C, with HFC hydraulic fluids = -40° C \div +50°C				
Recommended viscosity	15÷100 mm²/s - max allowed range 2,8 ÷ 500 mm²/s				
Fluid contamination class	ISO 4406 class 21/19/16 NAS 1638 class 10, in line filters of 25 μm (β25 ≥75 recommended)				
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard		
Mineral oils	NBR, FKM, HNBR	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524		
Flame resistant without water	FKM	HFDU, HFDR	- ISO 12922		
Flame resistant with water	NBR, HNBR	HFC			

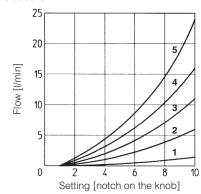
4 DIAGRAMS based on mineral oil ISO VG 46 at 50°C

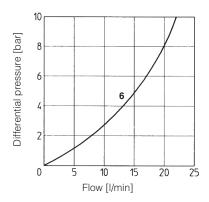
4.1 Regulation diagram

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

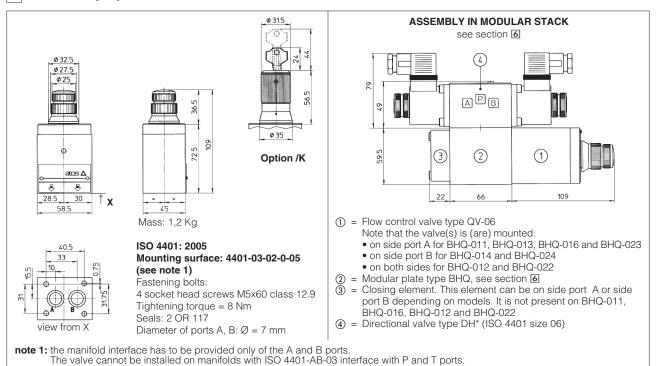
4.2 Q/ Δp diagram through the check valve for free flow $B{\rightarrow}A$

6 = QV-06/*



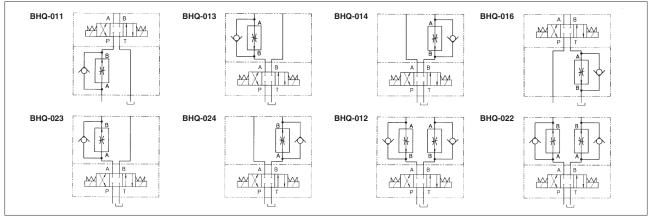


5 DIMENSIONS [mm]



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 (a) for dimensions and example of assembly.



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

7 MOUNTING PLATES TYPE BA

Valve	Subplate model	Ports location	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;	G 3/8"	-	1,2
	BA-204/Q	Ports P, T underneath; Ports A, B on lateral side	G 3/8"	25,5	1,2
	BA-302/Q	Ports A, B, P, T underneath;	G 1/2"	30	1,8