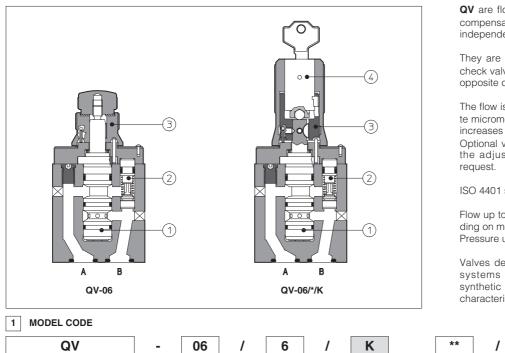


# Flow control valves type QV-06

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.

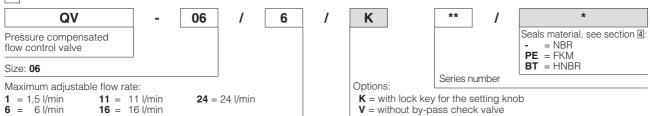
The flow is regulated by turning a graduate micrometer knob (3). Clockwise rotation increases the flow regulation.

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

ISO 4401 size 06.

Flow up to 1,5; 6; 11; 16; 24 l/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.

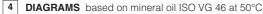


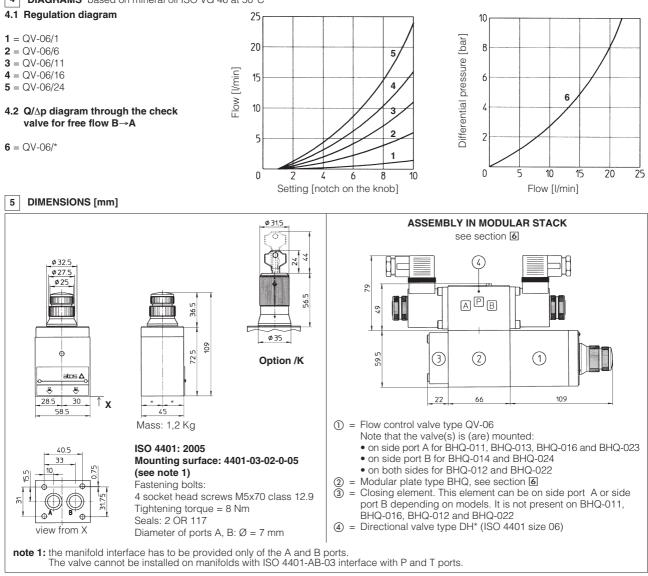
## 2 HYDRAULIC CHARACTERISTICS

Hydraulic symbols A with check valve (standard) Hydraulic symbols A A B without check valve (option /V)										
Valve model		QV-06/1	QV-06/6	QV-06/11	QV-06/16	QV-06/24				
Max regulated flow	[l/min]	1,5	6	11	16	24				
Min regulated flow	[cm <sup>3</sup> /min]			50	•					
Max flow B→A through che	ck valve [l/min]			24						
Regulating ∆p	[bar]	3	3	5	6,5	8				
Max flow on port A	[l/min]			24	•					
Max pressure	[bar]			250						

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

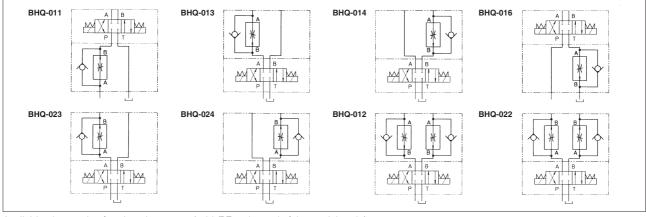
Assembly position	Any position				
Ambient temperature	Standard = $-30^{\circ}C \div +70^{\circ}C$ /	$PE option = -20^{\circ}C \div +70^{\circ}C \qquad /E$	$T \text{ option} = -40^{\circ}\text{C} \div +70^{\circ}\text{C}$		
NBR seals (standard) = $-20^{\circ}C \div +60^{\circ}C$ , with HFC hydraulic fluids = $-20^{\circ}C \div +50^{\circ}C$ eals, recommended fluid temperatureFKM seals (/PE option) = $-20^{\circ}C \div +80^{\circ}C$ HNBR seals (/BT option) = $-40^{\circ}C \div +60^{\circ}C$ , with HFC hydraulic fluids = $-40^{\circ}C \div +50^{\circ}C$					
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 (β10 ≥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	100 12022		





### 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 **S** for dimensions and example of assembly.



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

The plates type BHQ are supplied with 4 fastening bolts M5x60 (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	Ports A, B, P, T	Ø Counterbore [mm] A, B, P, T	Mass [Kg]
	BA-202/Q	Ports A, B, P, T underneath;	G 3/8"	-	1,2
QV-06	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

The plates type BA-\*\*\*/Q are supplied with 4 fastening bolts M5x60 because QV-06 are supplied without fastening bolts.