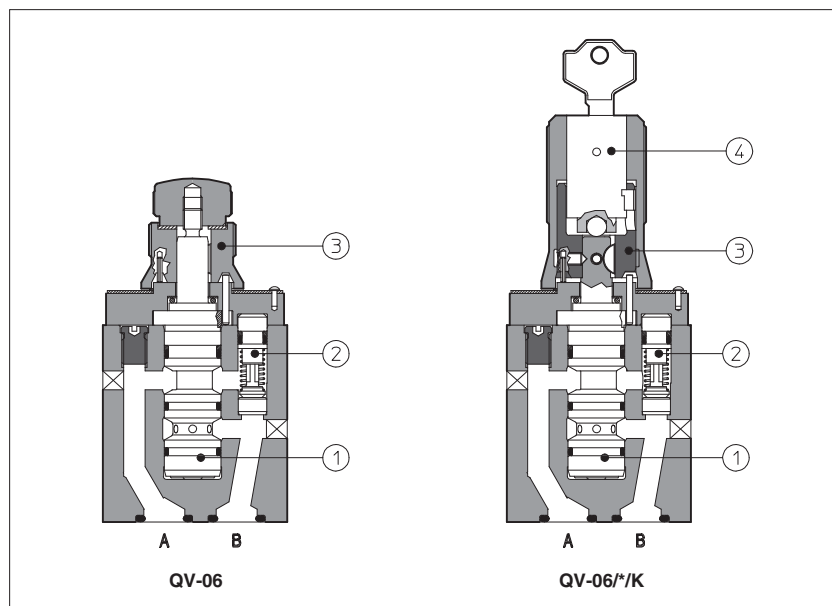


Flow control valves type QV-06

pressure compensated, two way, size 06 not ISO



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.

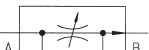
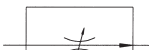
Valves designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

Size: **06** - not ISO
Max flow: **24 l/min**
Max pressure: **250 bar**

1 MODEL CODE

QV	-	06	/	6	/	K	**	/	*
Pressure compensated flow control valve								Seals material, see section 3:	
Size: 06								- = NBR PE = FKM BT = HNBR	
Maximum adjustable flow rate:						Options:		Series number	
1 = 1,5 l/min		11 = 11 l/min		24 = 24 l/min		K = with lock key for the setting knob			
6 = 6 l/min		16 = 16 l/min				V = without by-pass check valve			

2 HYDRAULIC CHARACTERISTICS

Hydraulic symbols						
		with check valve (standard)		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 [cm³/min]		50				
Max flow B→A through check valve [l/min]		24				
Regulating Δp [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 below table, consult our technical office

Assembly position	Any position		
Compliance	RoHS Directive 2011/65/EU as last update by 2015/863/EU REACH Regulation (EC) n°1907/2006		
Ambient temperature	Standard = -30°C ÷ +70°C /PE option = -20°C ÷ +70°C /BT option = -40°C ÷ +70°C		
Seals, recommended fluid temperature	NBR seals (standard) = -20°C ÷ +80°C, with HFC hydraulic fluids = -20°C ÷ +50°C FKM seals (/PE option) = -20°C ÷ +80°C HNBR seals (/BT option) = -40°C ÷ +60°C, with HFC hydraulic fluids = -40°C ÷ +50°C		
Recommended viscosity	15 ÷ 100 mm²/s - max allowed range 2,8 ÷ 500 mm²/s		
Max fluid contamination level	ISO4406 class 20/18/15 NAS1638 class 9, see also filter section at www.atos.com or KTF catalog		
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	HFDR, HFDR	ISO 12922
Flame resistant with water	NBR, HNBR	HFC	

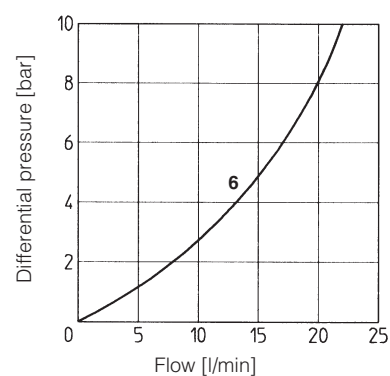
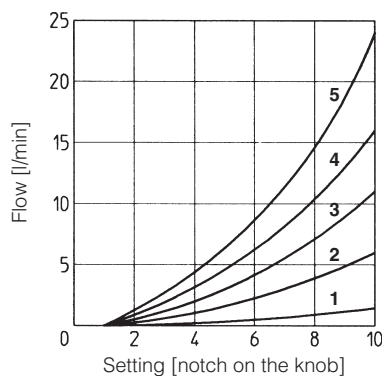
4 DIAGRAMS based on mineral oil ISO VG 46 at 50°C

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→A

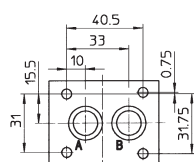
- 6 = QV-06/*



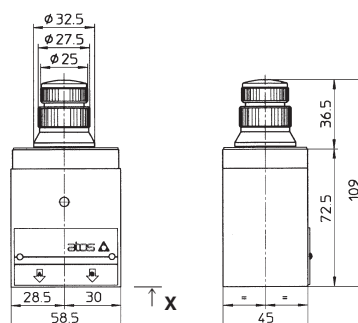
5 DIMENSIONS [mm]

Mounting surface (see note 1)

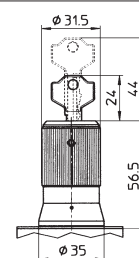
Fastening bolts:
4 socket head screws M5x70 class 12.9
Tightening torque = 8 Nm
Seals: 2 OR 117
Diameter of ports A, B: $\varnothing = 7$ mm



view from X



Mass: 1,2 Kg



Option /K

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 interface with P and T ports.

6 MOUNTING PLATES TYPE BA

Valve	Subplate model	Ports location	Ports A, B, P, T	$\varnothing$ 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