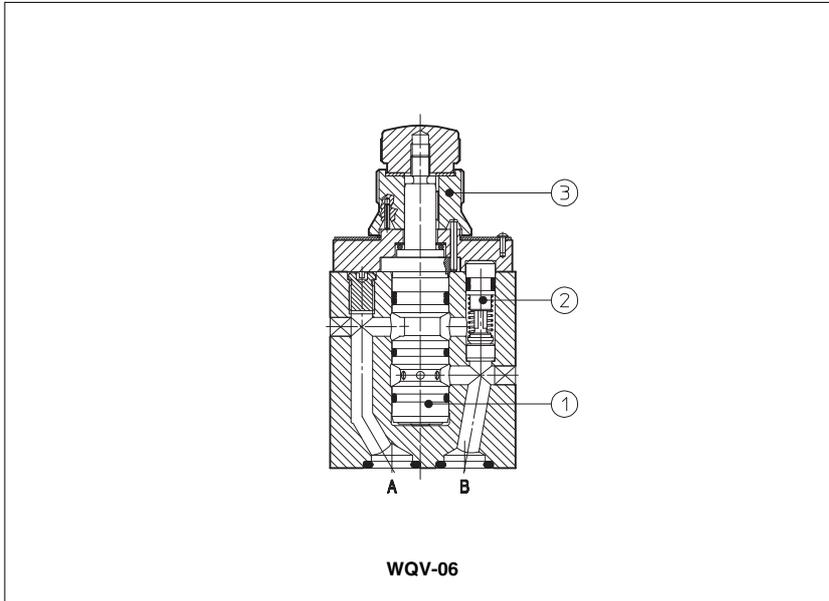


Flow control valves type **WQV-06**

pressure compensated, two way, ISO 4401 size 06



WQV are flow control valves with pressure compensator ①: the controlled flow is independent to the pressure variations on A and B ports.

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 reduces the controlled flow.

ISO 4401 size 06.

Flow up to 6; 16 and 24 l/min.

Pressure up to 250 bar.

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

1 MODEL CODE

WQV - **06** / **6** / **K** ** /*

Pressure compensated flow control valve

Size:
06

Maximum adjustable flow rate:

6 = 6 l/min
16 = 16 l/min
24 = 24 l/min

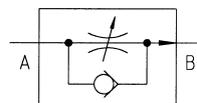
Synthetic fluids:
PE = phosphate ester

Design number

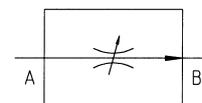
Options:
N = without by-pass check valve

2 HYDRAULIC CHARACTERISTICS

Hydraulic symbols



with check valve



without check valve

Valve model	WQV-06/6	WQV-06/16	WQV-06/24
Max regulated flow [l/min]	6	16	24
Min regulated flow [cm ³ /min]		50	
Max flow B→A through check valve [l/min]		24	
Regulating Δp [bar]	3	6,5	8
Max flow on port A [l/min]		24	
Max pressure [bar]		250	

3 MAIN CHARACTERISTICS OF FLOW CONTROL VALVES TYPE WQV-06

Assembly position / location	Any position
Subplate surface finishing	Roughness index $\sqrt{0.4}$, 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 I
Recommended viscosity	15 ÷ 100 mm ² /s at 40°C (ISO VG 15 ÷ 100)
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 μm value and β ₂₅ ≥ 75 (recommended)
Fluid temperature	-20°C +60°C (standard seals) -20°C +80°C (/PE seals)

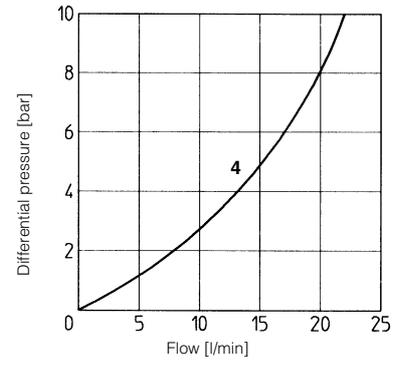
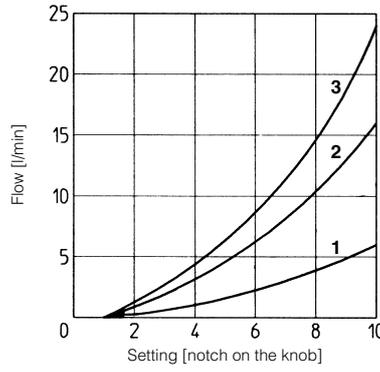
4 DIAGRAMS based on mineral oil ISO VG 46 at 50°C

4.1 Regulation diagram

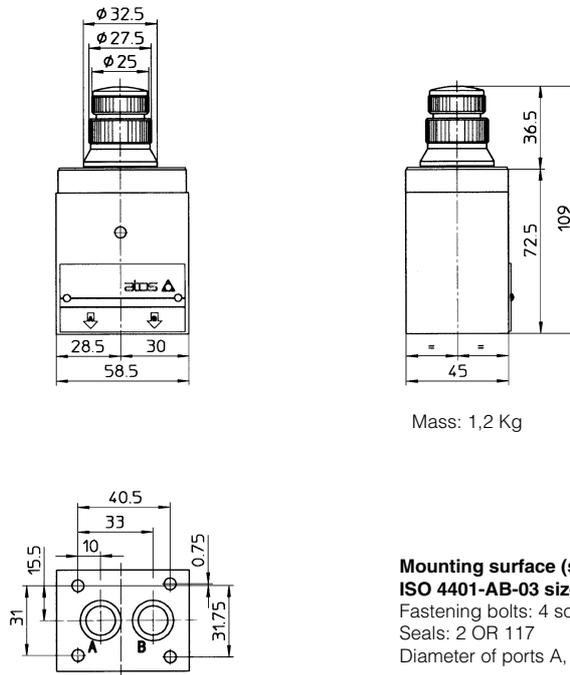
- 1 = WQV-06/6
- 2 = WQV-06/16
- 3 = WQV-06/24

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

- 4 = WQV-06/*



5 DIMENSIONS [mm]



Mass: 1,2 Kg

Mounting surface (see note 1)

ISO 4401-AB-03 size 06

Fastening bolts: 4 socket head screws M5x60

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.