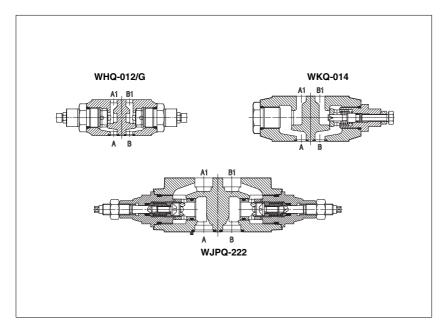


Modular valves type WHQ, WKQ, WJPQ

flow control ISO 4401 sizes 06, 10 and 16



13

WHQ, WKQ and WJPQ are flow throttling valves, not compensated, and with check valve to allow free flow in the opposite direction.

The flow adjustement is done by turning the setting screw in the normal model. Optional versions with a graduate micrometer knob are available on request.

Clockwise rotation increases the throttling (passage reduced).

WHQ-0 = ISO 4401 size 06 interface: flow up to 25 l/min for /U option, up to 80 l/min for standard, pressure up to 350 bar

WKQ-0 = ISO 4401 size 10 interface: flow up to 160 l/min, pressure up to 315 bar.

WJPQ-2 = ISO 4401 size 16 interface: flow up to 200 l/min, pressure up to 350 bar.

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

1 MODEL CODE

WHQ-0

Modular flow control valve, size:

WHQ-0 = 06 **WKQ-0** = 10

WJPQ-2 = 16

Configuration, see section 2

control of flow discharged from the actuator:

- 12 = double, acting on port A and B 13 = single, acting on port A
- 13 = single, acting on port A 14 = single, acting on port B
- control of flow entering the actuator:

22 = double, acting on port A and B

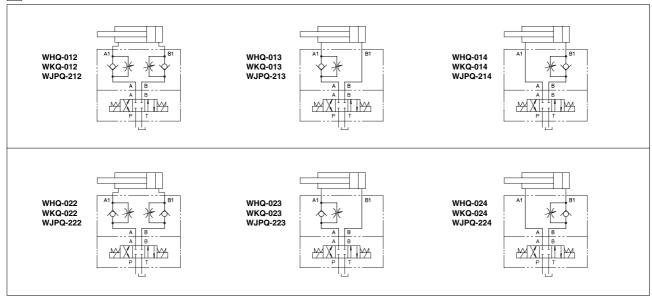
- 23 = single, acting on port A
- 24 = single, acting on port B

Synthetic fluids:

PE = phosphate ester

Design number

2 VALVE CONFIGURATION

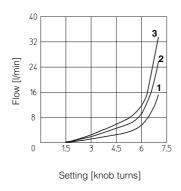


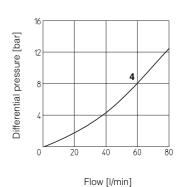
3 MAIN CHARACTERISTICS OF MODULAR FLOW CONTROL VALVES TYPE WHQ, WKQ, WJPQ

Assembly position	Any position.
Subplate surface finishing	Roughness index $\sqrt{}$, flatness ratio 0,01/100 (ISO 1101)
Ambient temperature	-20°C to + 70°
Fluid	Hydraulic oil as per DIN 51524535, for other fluids see section □
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 μm value and β25 ≥ 75 (recommended)
Fluid temperature	-20°C +60°C (standard seals) -20°C +80°C (/PE seals)

4 DIAGRAMS OF WHQ-0 based on mineral oil ISO VG 46 at 50°C

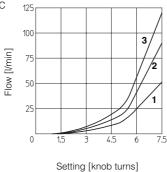
- 1 = Regulation diagram at Δp 10 bar
- $2 = \text{Regulation diagram at } \Delta p 30 \text{ bar}$
- 3 = Regulation diagram at Δp 50 bar 4 = $Q/\Delta p$ diagram for free flow through the non-return valve

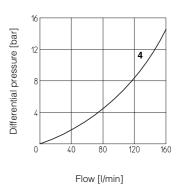




5 DIAGRAMS OF WKQ-0 based on mineral oil ISO VG 46 at 50°C

- $1 = \text{Regulation diagram at } \Delta p \text{ 10 bar}$
- $\mathbf{2}$ = Regulation diagram at Δp 30 bar
- 3 = Regulation diagram at Δp 50 bar
- $4 = Q/\Delta p$ diagram for free flow through the non-return valve

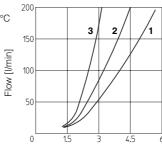


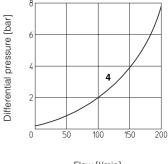


6 DIAGRAMS OF WJPQ-2 based on mineral oil ISO VG 46 at 50°C

- 1 = Regulation diagram at Δp 10 bar

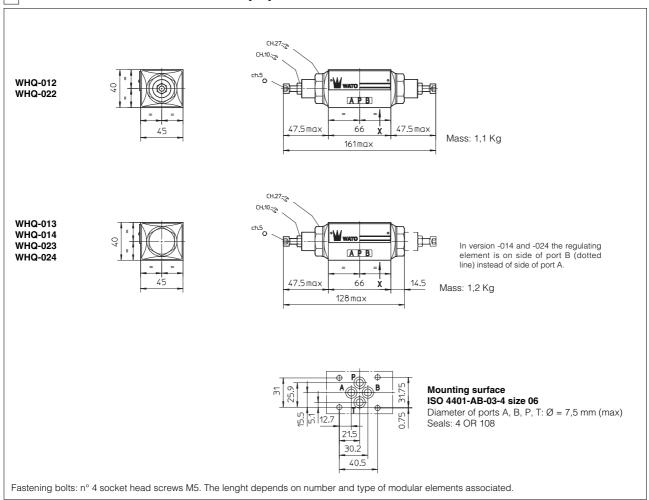
- 1 = negulation diagram at Δp 30 bar
 2 = Regulation diagram at Δp 30 bar
 3 = Regulation diagram at Δp 50 bar
 4 = Q/Δp diagram for free flow through the non-return valve



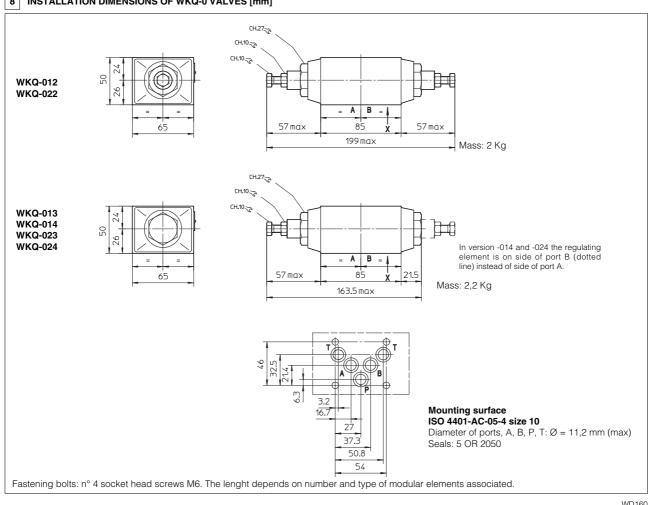


Flow [I/min]

INSTALLATION DIMENSIONS OF WHQ-0 VALVES [mm]



8 INSTALLATION DIMENSIONS OF WKQ-0 VALVES [mm]



Fastening bolts: n° 4 socket head screws M10 and n° 2 M6. The lenght depends on number and type of modular elements associated.