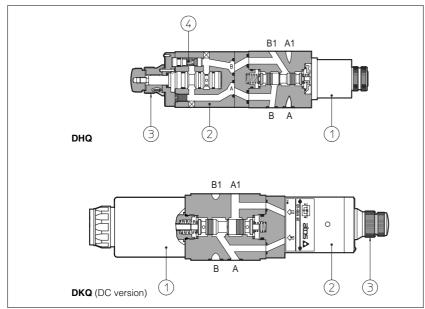


# Modular fast/slow valves type DHQ and DKQ

compensated flow control and by-pass solenoid valve, ISO 4401 sizes 06 and 10



DHQ and DKQ are modular units composed by one by-pass solenoid valve ① and one 2-way pressure compensated flow control valve ② type QV-06 (tab. C210).

The flow control valve is provided with a built-in check valve (4) to allow the free flow in the opposite direction.

The flow adjustment is obtained by turning the graduated micrometer knob ③. Clockwise rotation decreases the throttling (passage reduced).

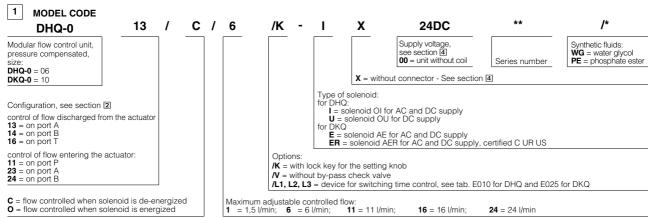
Optional versions with locking key on the adjustment knob are available on request.

DHQ = ISO 4401 size 06 interface; controlled flow up to 1,5-6-11-16-24 l/min (depending on models); free flow up to 36 l/min.

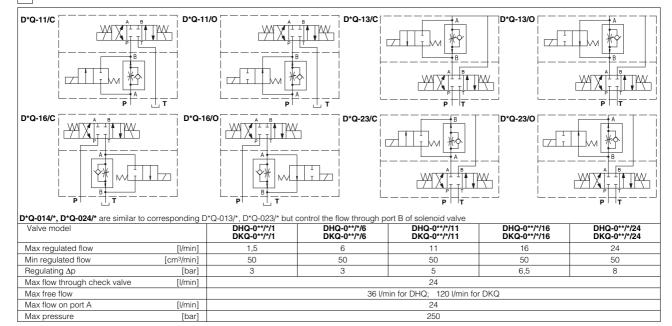
DKQ = ISO 4401 size 10 interface; controlled flow up to 1,5-6-11-16-24 l/min (depending on models); free flow up to 120 l/min.

Pressure up to 250 bar.

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



# 2 HYDRAULIC CHARACTERISTICS



## 3 MAIN CHARACTERISTICS OF FLOW CONTROL UNITS TYPE DHQ AND DKQ

Assembly position / location	Any position
Subplate surface finishing	Roughness index $\sqrt{\frac{0.4}{}}$ ,flatness ratio 0,01/100 (ISO 1101)
Ambient temperature	-20°C to +70°C
Fluid	Hydraulic oil as per DIN 51524 535; for other fluids see section 1
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 $\mu m$ value and $\beta_{25} \ge 75$ (recommended)
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)

### 4 ELECTRIC/ELECTRONIC CONNECTORS AND ELECTRIC FEATURES

For electric/electronic connectors (to be ordered separately) and electric features of DHQ units, see tab. E010. For electric/electronic connectors (to be ordered separately) and electric features of DKQ units, see tab. E025.

# 5 OPERATING LIMITS

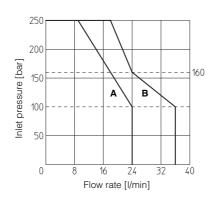
#### DHG

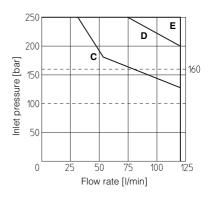
A = DHQ with OI solenoid

 $\mathbf{B} = \mathsf{DHQ}$  with  $\mathsf{OU}$  solenoid

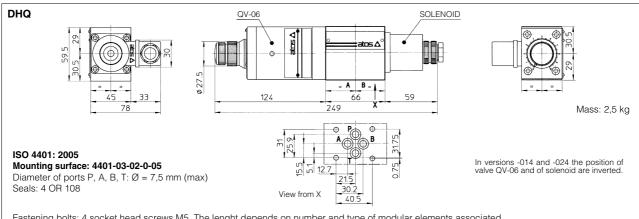
#### DKQ

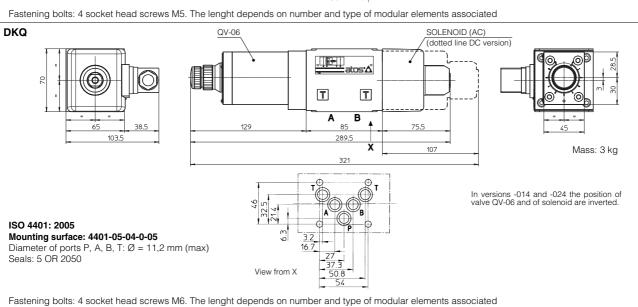
- C = DKQ with AE and AER solenoid, version 011/O, 023/O, 024/O
- **D** = DKQ with AE and AER solenoid, version 013/C, 014/C, 016/C
- **E** = DKQ with AE and AER solenoid version 011/C, 013/O, 014/O, 016/O, 023/C, 024/C





### 6 INSTALLATION DIMENSIONS [mm]





Overall dimensions refer to valves with connectors type SP-666