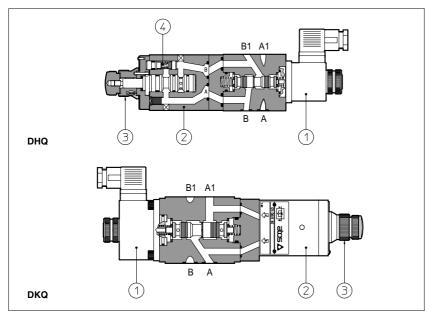


# Modular fast/slow valves type DHQ and DKQ

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 flow control valve (2) type QV-06 (tab. C210) with pressure compensator (the controlled flow rate is indipendent of pressure variations).

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

The flow adjustment is done by turning a rine low adjustment is done by turning a graduate micrometer knob ③. Clockwise rotation increases the throttling (passage reduced). Optional versions with locking key on the adjustment knob are available on second.

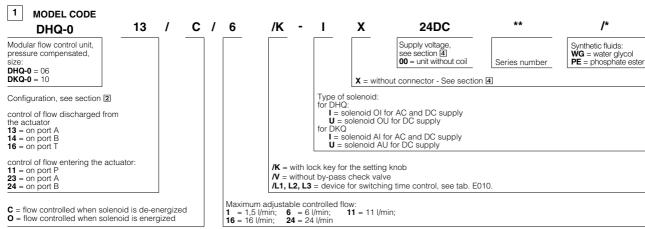
request

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 75 l/min.

Pressure up to 250 bar.

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



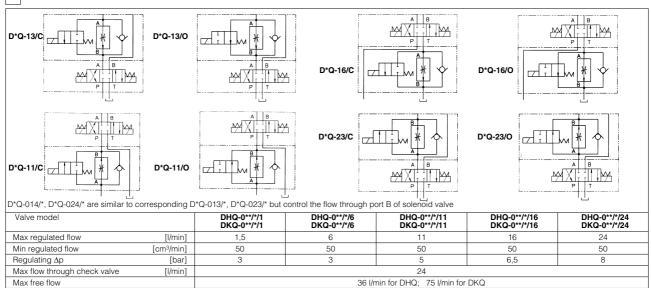
# 2 HYDRAULIC CHARACTERISTICS

Max flow on port A

Max pressure

[l/min]

[bar]



24 250

### 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.

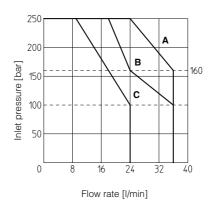
#### 5 OPERATING LIMITS

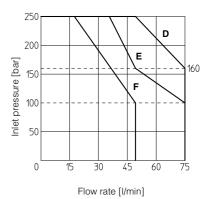
#### DHQ

- **A** = DHQ with OI or OU solenoid and E-SA or E-SE electronic connector
- **B** = DHQ with OU solenoid and other connectors
- **C** = DHQ with OI solenoid and other connectors

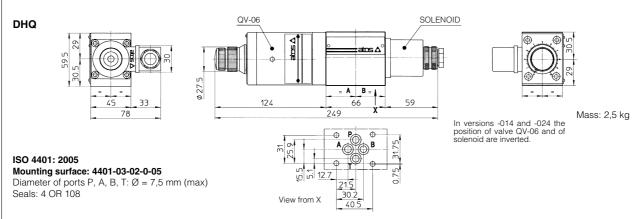
#### DKQ

- **D** = DKQ with AI or AU solenoid and E-SA or E-SE electronic connector
- **E** = DKQ with AU solenoid and other connectors
- **F** = DKQ with Al solenoid and other connectors





## 6 INSTALLATION DIMENSIONS [mm]



Fastening bolts: 4 socket head screws M5. The lenght depends on number and type of modular elements associated

