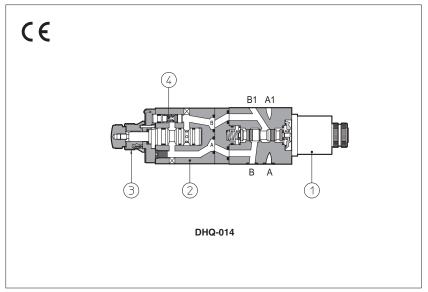


Modular fast/slow valves type DHQ

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



DHQ 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.

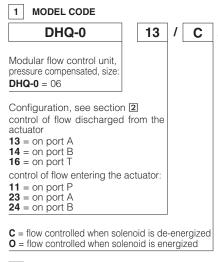
Mounting surface:

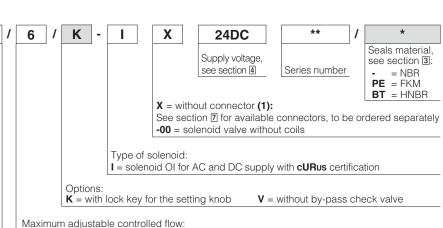
ISO 4401 size 06

Max controlled flow: up to 1,5-6-11-16-24 l/min (depending on models);

Free flow up to 36 l/min.

Max pressure: up to 250 bar





5

24 36 I/min

24

250

6,5

8

= 1,5 l/min; 6 = 6 l/min;**00** = whitout flow control valve

3

[bar]

[l/min]

[l/min]

[bar]

16 = 16 l/min; **24** = 24 l/min

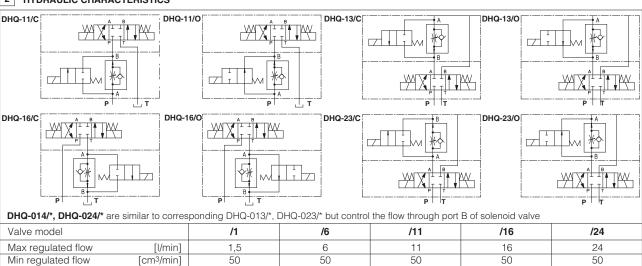
2 HYDRAULIC CHARACTERISTICS

Regulating ∆p

Max free flow Max flow on port A

Max pressure

Max flow through check valve



3

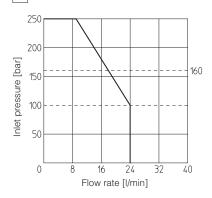
3 MAIN CHARACTERISTICS, SEALS and HYDRAULIC FLUID - for other fluids not included in below table, consult our technical office

Assembly position / location	Any position		
Subplate surface finishing	Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)		
Compliance	CE to Low Voltage Directive 2014/35/EU and Machine Directive 2006/42/EC. RoHS Directive 2011/65/EU as last update by 2015/65/EU REACH Regulation (EC) n°1907/2006		
Ambient temperature	Standard = -30° C $\div +80^{\circ}$ C /PE option = -20° C $\div +70^{\circ}$ C /BT option = -40° C $\div +70^{\circ}$ C		
Seals, recommended fluid temperature	NBR seals (standard) = -20° C \div +60°C, with HFC hydraulic fluids = -20° C \div +50°C FKM seals (/PE option)= -20° C \div +80°C HNBR seals (/BT option)= -40° C \div +60°C, with HFC hydraulic fluids = -40° C \div +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	HFDU, HFDR	ISO 12922
Flame resistant with water	NBR, HNBR	HFC	

4 ELECTRIC/ELECTRONIC CONNECTORS AND ELECTRIC FEATURES

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

5 OPERATING LIMITS



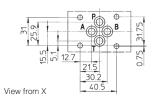
6 INSTALLATION DIMENSIONS [mm]

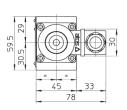
ISO 4401: 2005

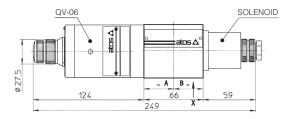
Mounting surface: 4401-03-02-0-05

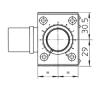
Diameter of ports P, A, B, T: \emptyset = 7,5 mm (max) Seals: 4 OR 108

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









Mass: 2,5 kg

In versions -014 and -024 the position of valve QV-06 and of solenoid are inverted.

Overall dimensions refer to valves with connectors type 666