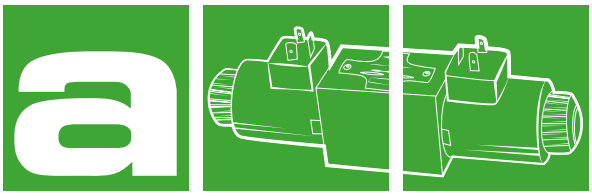


PRESSURE COMPENSATED FLOW CONTROL VALVES

QVC-06

32 l/min - 32 MPa (320 bar)

1 DESCRIPTION

Pressure compensated flow control valve designed to provide adjustable controlled flow indipendent from system pressure variations.

2 ORDERING CODE

(1)		(2)		(3)		(4)		(5)		(6)
QVC	-	06	/		-		-		/	10

(1) QVC: pressure compensated, variable flow control valve with integral check valve for reverse flow

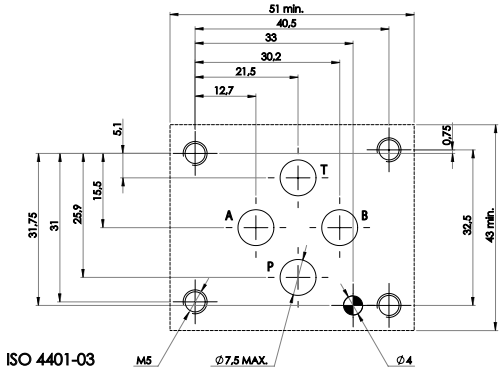
(2) 06: size CETOP 03- pressure 32 MPa (320 bar)

(3) Range of regulated flow:
- 01= 0 -> 1,6 l/min
- 03= 0 -> 3,2 l/min
- 06= 0 -> 6,3 l/min
- 16= 0 -> 16 l/min
- 32= 0 -> 32 l/min

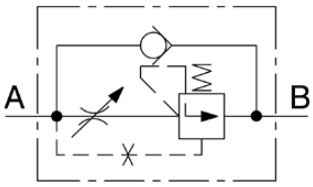
(4) Pilot pressure arrangement
- no designation: internal (standard)
- E: external via P port

(5) Code reserved for more options and variants
- no designation: no variant (standard)
- K: key lock on the adjustment knob

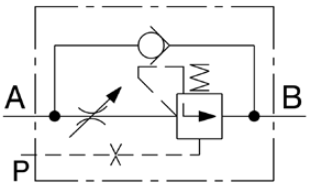
(6) Design number (progressive) of the valves

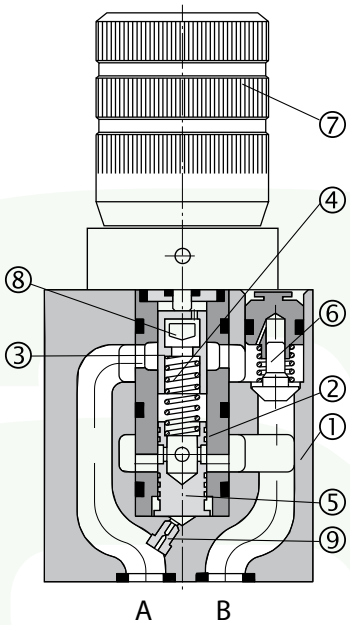


without external pilot



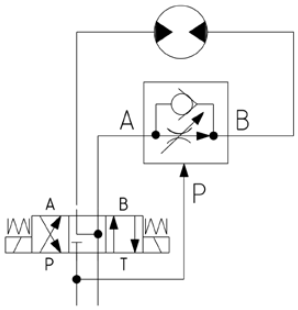
with external pilot

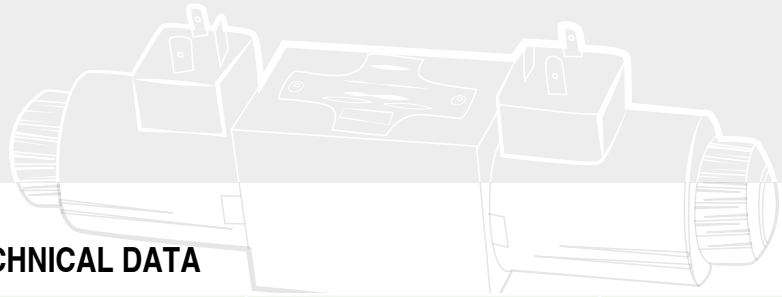




EXAMPLE:

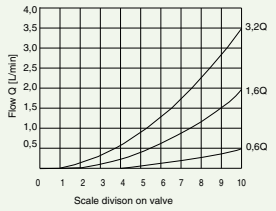
QVC-06/*-E with external pilot is used for metering-in circuits to avoid “jumps” when the actuator starts

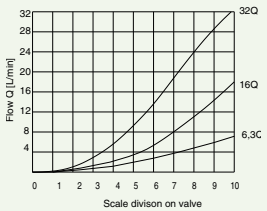




3 TECHNICAL DATA

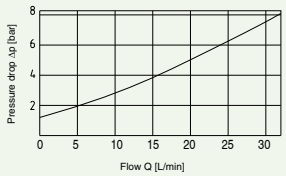
Maximum rec. flow rate	32 l/min
Maximum nominal pressure	32 MPa (320 bar)
Flow curves	see 4
Adjustment	see
Installation and dimensions	see 5
Mass	approx 1,2 kg





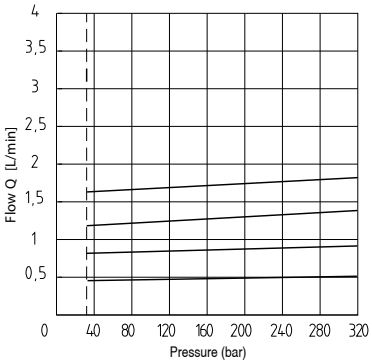
Control of the flow:

By turning the knob 5, the value of the regulated flow changes. For each range of flow (0->1,6; 0->3,2; 0->6,3; 0->16; 0->32 l/min) the scale/flow characteristics is approx linear (see below) and the full range is covered by turning the knob by approx 350°. The scale is divided in 10 marks.
Clockwise: flow increases
Anticlockwise: flow decreases
When the required value is reached, set the knob position by fixing screw 8.

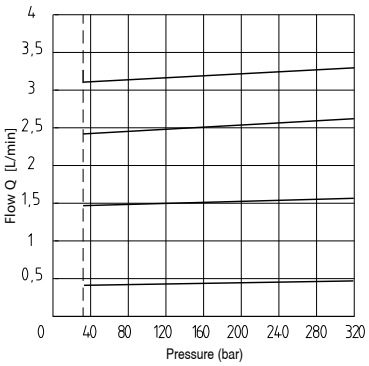


4 TYPICAL DIAGRAMS

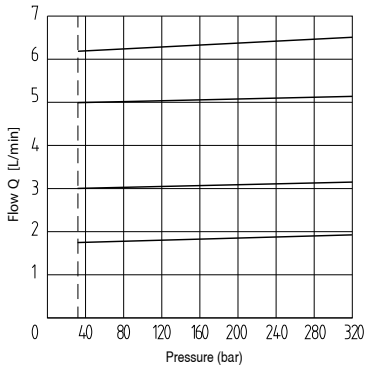
01



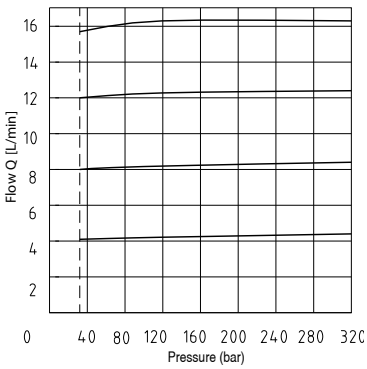
03



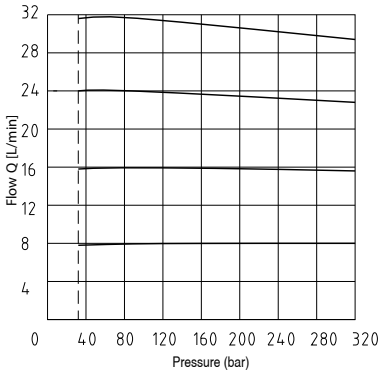
06



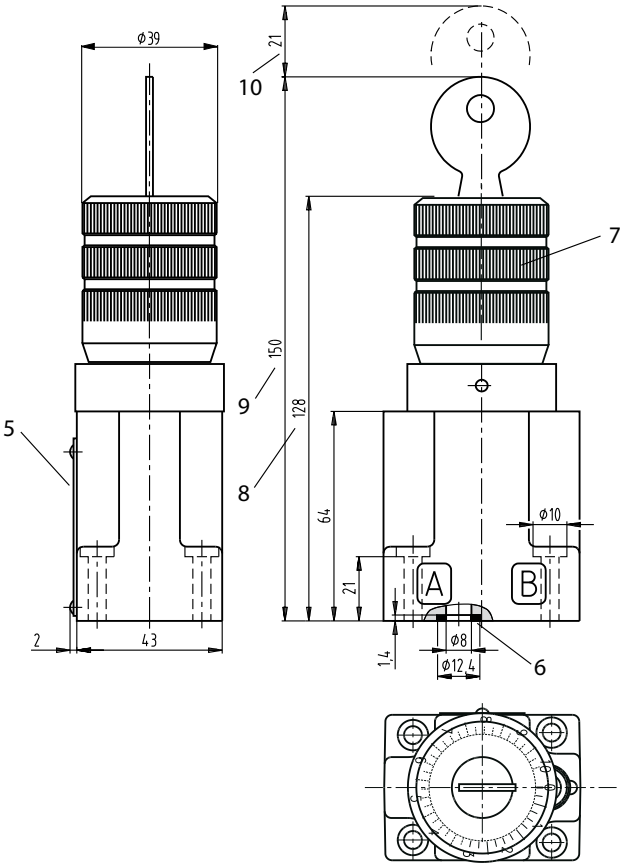
16



32



5 INSTALLATION DIMENSIONS (mm)



6 HYDRAULIC FLUIDS

Seals and materials used on standard valves QVC* are fully coMPatible with hydraulic fluids of mineral oil base, upgraded with antifoaming and antioxidizing agents. The hydraulic fluid must be kept clean and filtered to ISO 4406 class 19/17/14, or better, and used in a recommended viscosity range from 10cSt to 60 cSt.