QC32... 2 WAY COMPENSATED
FLOW RATE REGULATORS

brevini

QC.3.2...	
OVERALL DIMENSIONS	CH. III PAGE 4

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These QC.3.2... compensated flow rate regulators are designed to control and maintain a constant irrespective of the pressure variations upstream and downstream of the regulation section. Their new cast construction has made it possible to obtain a wider flow rate range, taking the upper limit to 35 l/min (4 turns version) while maintaining unchanged the pressure differential required to obtain good pressure compensation.

All models are available with and without reverse flow check valve, complete with an "anti-jump" device on request. This accessory has been designed to eliminate the problem which manifests itself as a "anti-jump" in the controlled actuator due to the instantaneous flow rate variation that takes place under the form of a transient every time the flow is made to pass through the regulator.
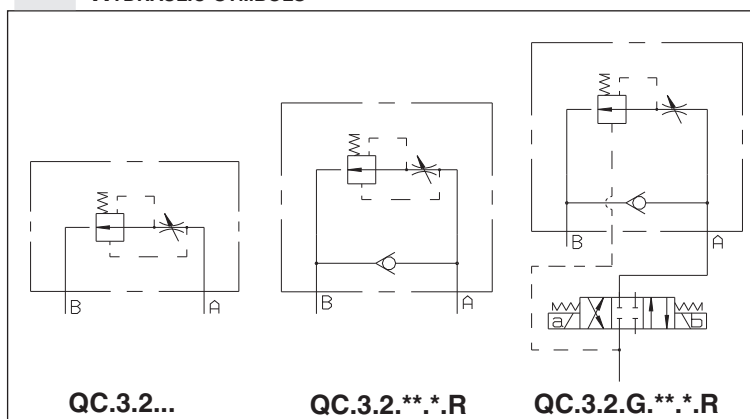
Max. operating pressure	320 bar
Opening pressure (with bypass)	1 bar
Min. regulated flow rate (Q1 version)	0.03 ÷ 0.05 l/min
Nominal regulated flow rate (1 turn version)	1,5 ÷ 30 l/min
Nominal regulated flow rate (4 turns version)	1,5 ÷ 35 l/min
Difference in pressure (Δp) for vers. Q1	3 bar
Difference in pressure (Δp) Q2-Q3-Q4-Q5-Q6	8 bar
Hydraulic fluids	Mineral oils DIN 51524
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level(*)	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Dependency on temperature (Q1 vers.)	5%
Dependency on temperature (Q2 vers.)	3%
Dependency on temperature (Q3-Q4-Q5-Q6)	2%
Weight	1,5 Kg

(*) Max contamination level must be respect to obtain the right function of the valve

ORDERING CODE

QC	Compensated flow rate regulated
3	CETOP 3/NG6
2	2 way
G	Anti-jump system with internal check valve (omit if not required)
**	Nominal flow rate ranges

	1 Turn version	4 Turn version
Q1 =	1,5 l/min	1,5 l/min
Q2 =	3 l/min	4 l/min
Q3 =	9 l/min	10 l/min
Q4 =	19 l/min	21 l/min
Q5 =	24 l/min	28 l/min
Q6 =	30 l/min	35 l/min

K	Version with lock (omit if not required)
*	1 = 1 turn version 4 = 4 turns version
R	With internal check valve (omit if not required)
**	00 = No variant V1 = Viton
5	Serial No.

HYDRAULIC SYMBOLS

QC.3.2...   **QC.3.2.**.*.R**   **QC.3.2.G.**.*.R**

DIAGRAMS

REGULATED FLOW RATE 1 TURN VERSION

No. of turns of knob

REGULATED FLOW RATE 4 TURNS VERSION

No. of turns of knob

FLOW RATE - INLET PRESSURE

P (bar)

FREE FLOW THROUGH CHECK VALVE

Q (l/min)