QC32... 2 WAY COMPENSATED FLOW RATE REGULATORS



QC32...

DIMENSIONS SECT. C 4

These QC32... 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 mm^2/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 $ß_{25} \geq 75$
Dependency on temperature (Q1 vers.)	5%
Dependency on temperature (Q2 vers.)	3%
Dependency on temperature (Q3-Q4-Q5-Q6)	2%
Weight	1,5 Kg

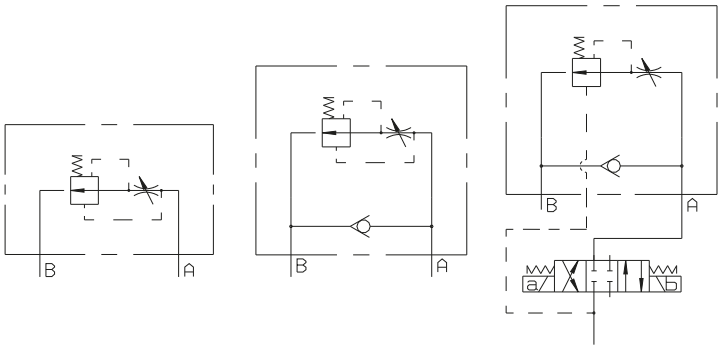
(*) Max contamination level must be respect to obtain the right function of the valve

C

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 **Q1** = 1,5 l/min **Q2** = 3 l/min **Q2** = 4 l/min **Q3** = 9 l/min **Q3** = 10 l/min **Q4** = 19 l/min **Q4** = 21 l/min **Q5** = 24 l/min **Q5** = 28 l/min **Q6** = 30 l/min **Q6** = 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** = FKM
5	Serial No.

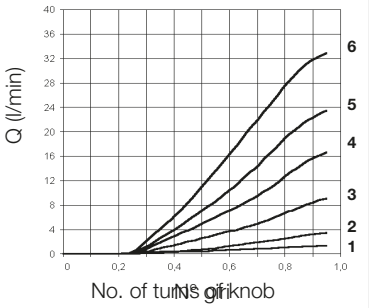
HYDRAULIC SYMBOLS



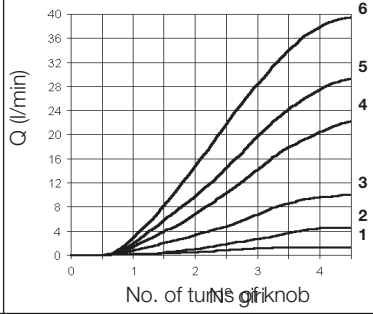
QC32... **QC32***R** **QC32G***R**

DIAGRAMS

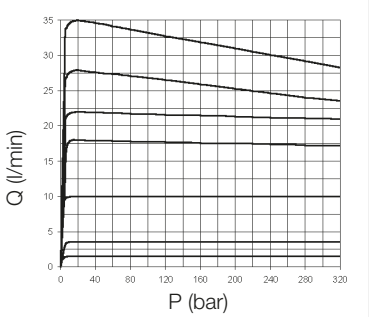
REGULATED FLOW RATE 1 TURN VERSION



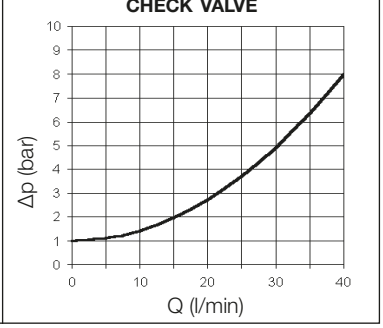
REGULATED FLOW RATE 4 TURNS VERSION



FLOW RATE - INLET PRESSURE

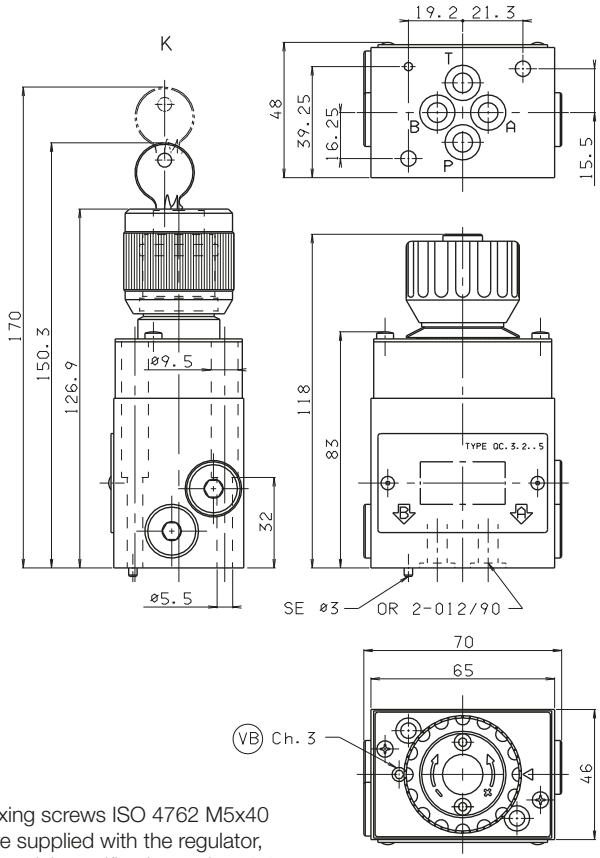


FREE FLOW THROUGH CHECK VALVE



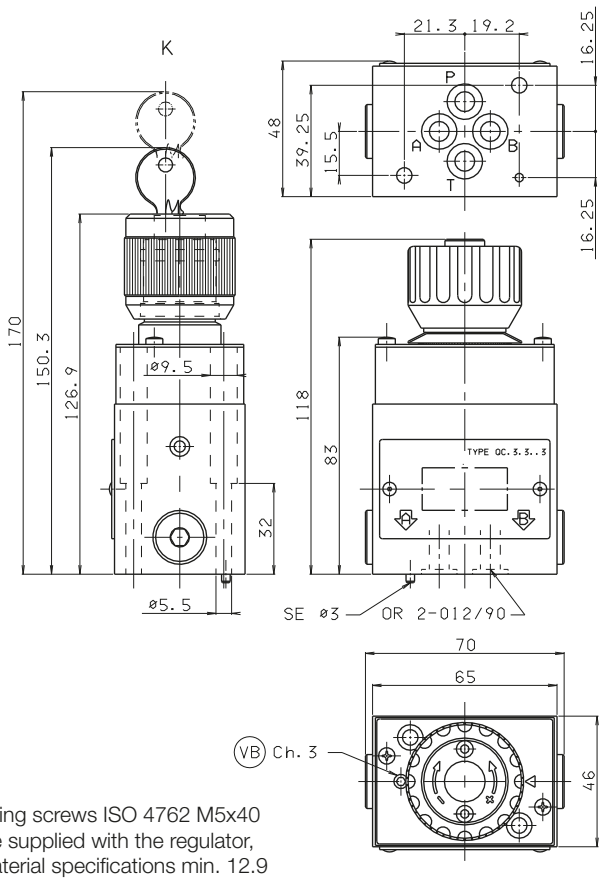
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QC32... 2 WAY FLOW RATE REGULATOR

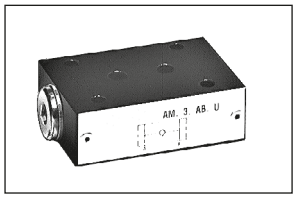


Fixing screws ISO 4762 M5x40
are supplied with the regulator,
material specifications min. 12.9
Tightening torque 6.5÷7 Nm / 0.65÷0.70 Kgm

QC33... 3 WAY FLOW RATE REGULATOR



Fixing screws ISO 4762 M5x40
are supplied with the regulator,
material specifications min. 12.9
Tightening torque 6.5÷7 Nm / 0.65÷0.70 Kgm

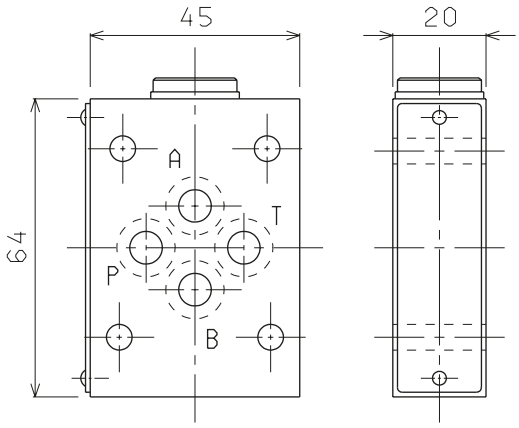


AM3ABU... CHECK VALVE HOLDER FOR REGULATORS TYPE QC3...

This check valve holder must be fitted underneath the QC valve when he reverse flow function is needed.

ORDERING CODE

AM	Modulating valve
3	CETOP 3/NG06
ABU	External check valve for QC3*.
3	For 2 way and 3 way
00	No variant
1	Serial No.



Weight: 0,4 Kg
Fixing screws for regulator and modular check valve M5x60 ISO 4762 - 12.9 K