

SCREWS AND STUDS

CH. IV PAGE 35

AM.5.QF	MODULAR	
FLOW REGUL	ATOR CETOP	5

AM.5.QF type one way non-compensated throttle valve are fitted with an O-Ring mounting plate which allows its assembly for either input or output regulation. Adjustment is obtained by means of a grub screw or a plastic knob. They are available in the four regulating configurations shown in the hydraulic diagrams.

These valves are supplied with related hydraulic scheme. In case of inversion of rated flow direction, turn valve 180° right or left (attention: in this case the label will appear upside down with A and B inverted).



Max. operating pressure	350 bar
Max. pressure adjustable	250 bar
Flow rate regulation	on 9 screw turns
Max. flow	80 l/min
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 B₂₅≥75	
Weight	3,7 Kg



Ĥ

R

AM.5.QF.B

Ĥ

B

AM.5.QF.P

AM.5.QF.AB

_

APTB

AM.5.QF.A









File: EAM88003



A.88		
"A16" DC COILS	Ch. I page 35	
STANDARD CONNECTORS	Ch. I page 19	
QC.3.2	Ch. III page 2	
SCREWS AND STUDS	Ch. IV page 35	

A.88... MODULAR FLOW CONTROL VALVES FAST / SLOW ASSEMBLY CETOP 5

This is a modular assembly ON/OFF solenoid valve which, by fitting a suitable 2 way regulator, allows two speed operation in the same system via an electrical changeover command.

The flow rate regulator type QC.3.2 must be ordered separately. The limit of use curves have been obtained with the regulator fully closed, and those same limits improve gradually with the opening of the regulator.

 Solenoids used are standard type A16 for DC voltage.

Max. operating pressure	320 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 B₂₅≥75		
Weight with a DC solenoid	d 4,2 Kg	

The test have been carried out at operating temperature, with a voltage 10% lower than rated voltage and with a fluid temperature of 50 degrees C. The fluid used was a mineral based oil with a viscosity of 46 mm²/sec at 40 degrees C.





TAR 2 - VARIANTS	
TAD.Z - VARIANTS	
No variant	00
(connectors as in the drawing)	
Viton	V1
Indicator light	X1
Rectifier	R1
Cable gland "PG11"	S1
Valve without connector (coil)	S1
Indicator light + rectifier	XR



rindynamica





FLOW RATE REGULATORS

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 (∆p) Q2-Q3-0	Q4-Q5-Q6 8 bar
Hydraulic fluids Minera	l 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 1	0 in accordance
with NAS 1638	with filter B ₂₅ ≥75
Dependency on temperature (Q1 v	ers.) 5%
Dependency on temperature (Q2 v	ers.) 3%
Dependency on temperature (Q3-Q	4-Q5-Q6) 2%
Weight	1,5 Kg
(*) Max contamination level must be	respect to obtain



QC

3

2

G

**

Κ

*

R

**

5



CH. III PAGE 4

CH. III PAGE 4

Compensated flow rate regulator

QC.3.3... 3 WAY COMPENSATED



FLOW RATE REGULATORS

This regulator type can be used whenever it is necessary to obtain a constant fluid flow irrespective of the pressure variations present upstream or downstream. It is fitted with a third T line for discharging any excessive flow rate.

When the reverse flow check valve is needed, the check valve holder type "AM.3.ABU.3..."can be fitted underneath the valve. (The check valve holder must be ordered separately see page III•4)

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 ÷ 22 l/min
Difference in pressure (Δp) for vers.	Q1 3 bar
Difference in pressure (Δp) Q2-Q3-Q	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 1	0 in accordance
with NAS 1638 v	with filter B ₂₅ ≥75
Dependency on temperature (Q1 ve	ers.) 5%
Dependency on temperature (Q2 ve	ers.) 3%
Dependency on temperature (Q3-Q	4-Q5) 2%
Weight	1,5 Kg
(*) Max contamination level must be r	respect to obtain
the right function of the valve	





ORDERING CODE

3 way

CETOP 3/NG6

Flow rate ranges **Q1** = 1 l/min

Version with lock

1 = 1 turn version 4 = 4 turns version

00 = No variant

V1 = Viton

Serial No.

(omit if not required)

Q2 = 3 l/min

Q3 = 9 l/min **Q4** = 17 l/min **Q5** = 24 l/min

OVERALL DIMENSIONS

AM.3.ABU..







File: ETQC3\$00\$

00/2000/e

