



AM.3.UD...

SCREWS AND STUDS

CH. IV PAGE 21

AM.3.UD... MODULAR DIRECT CHECK VALVES CETOP 3



AM.3.UD type modular check valves allow one way free flow, while flow in the opposite direction is prevented by means of a conical seated poppet.

They are available on single A, B, P and T lines, and on double A and B, P and T lines (see hydraulic symbols).

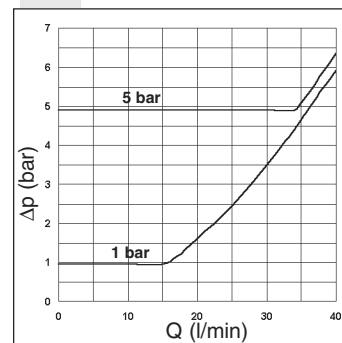
1 bar spring is standard, while a 5 bar rated spring is available on request.

Max. operating pressure	350 bar
Minimum opening pressure spring 1	1 bar
Minimum opening pressure spring 5	5 bar
Max. flow	40 l/min
Hydraulic fluids	Mineral oils DIN 51524
Fluid viscosity	10 ÷ 500 mm ² /s at 50°
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	0,8 Kg

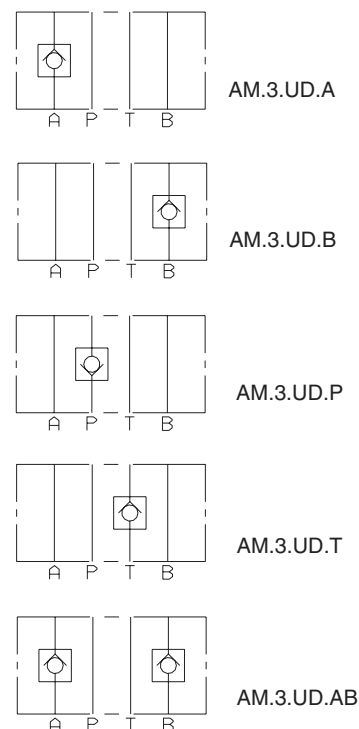
ORDERING CODE

AM	Modular valve
3	CETOP 3/NG6
UD	Direct check valve
**	Control on lines A / B / P / T / AB
*	Minimum opening pressure 1 = 1 bar 5 = 5 bar
**	00 = No variant V1 = Viton
2	Serial No.

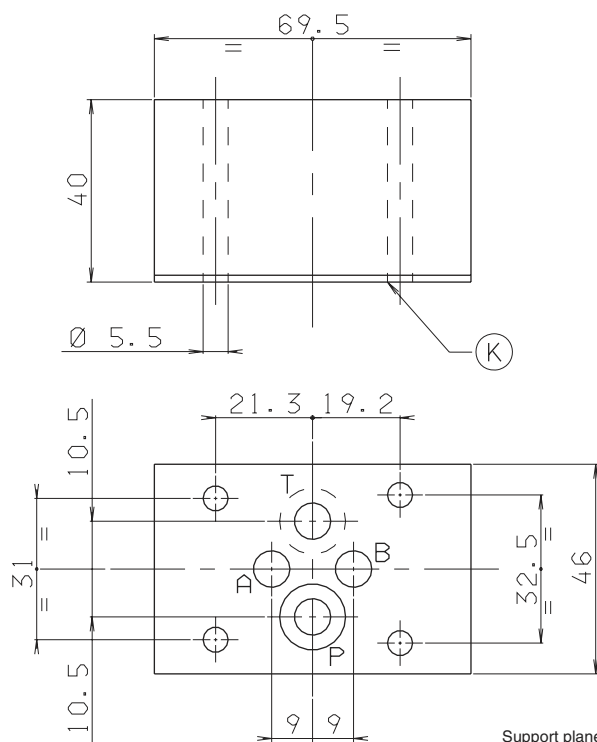
PRESSURE DROPS



HYDRAULIC SYMBOLS

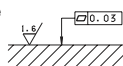


OVERALL DIMENSIONS



K = OR plate

Support plane
specifications





AM.3.UP / AM.3.UP1...

SCREWS AND STUDS

CH. IV PAGE 21

AM.3.UP... / AM.3.UP1... MODULAR PILOT OPERATED CHECK VALVES CETOP 3



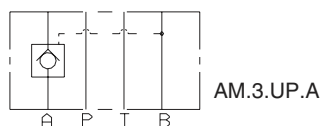
AM.3.UP type modular check valves allow free flow in one direction by raising a conical seated poppet valve, while in the opposite direction the fluid can return by means of a small piston piloted by the other line pressure (piloted side).

They are available on single A or B lines, and double A and B lines (see hydraulic symbols).

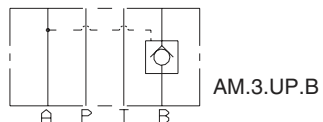
A pre-opening version is also available (AM3UP1..).

Max. operating pressure	350 bar
Minimum opening pressure spring 1	1 bar
Minimum opening pressure spring 5	5 bar
Piloting ratio AM.3.UP	1:4
Piloting ratio AM.3.UP1	1:12,5
Max. flow	40 l/min
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 $\beta_{25} \geq 75$
Weight	1 Kg

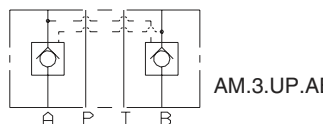
HYDRAULIC SYMBOLS



AM.3.UP.A



AM.3.UP.B



AM.3.UP.AB

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

**

UP = Piloted check valve
UP1 = With pre-opening

**

Control on lines A / B / AB

*

Minimum opening
pressure
1 = 1 bar
5 = 5 bar

**

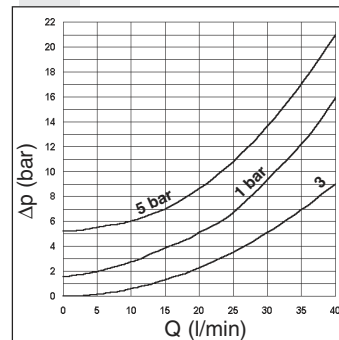
00 = No variant
V1 = Viton

3

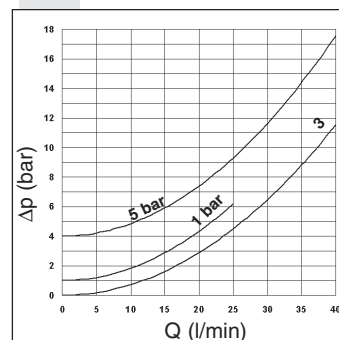
Serial No.

The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40°C. The tests have been carried out at a fluid temperature of 50°C.

PRESSURE DROPS AM3UP

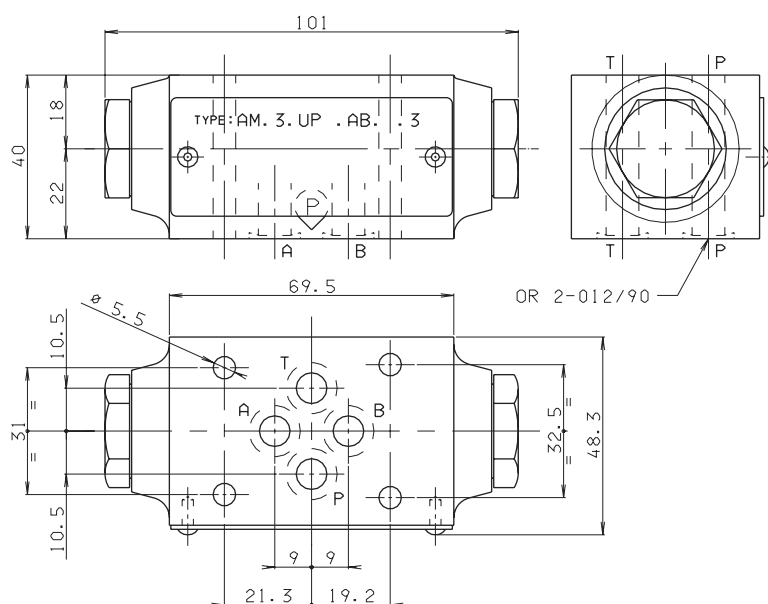


PRESSURE DROPS AM3UP1

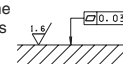


Curve n. 3 = Piloted side flow

OVERALL DIMENSIONS



Support plane
specifications



AM.3.VM... / AM.3.VI... MODULAR MAX. PRESSURE VALVES CETOP 3



AM.3.VM / AM.3.VI...

CMP.10... CH. V PAGE 19

SCREWS AND STUDS CH. IV PAGE 21

AM.3.VM type pressure regulating valves are available with a pressure range of 2 ÷ 320 bar.

Adjustment is by means of a grub screw or a plastic knob.

Three basic versions are available:

- AM3VM on single A or B lines, and on A and B lines, with drainage to T;
 - AM3VMP on single P line, with drainage to T;
 - AM3VI on single A or B lines, and on A and B lines, with crossed drainage on A or B (see hydraulic symbols).
- All versions can accept three types of springs with calibrated ranges as shown in the specifications.

The cartridge, which is the same for all versions, is the direct acting type CMP10.

For the minimum permissible setting pressure depending on the spring, see minimum pressure setting curve.

Max. operating pressure	320 bar
Setting ranges:	spring 1 max. 50 bar
	spring 2 max. 150 bar
	spring 3 max. 320 bar
Max. flow	40 l/min
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 $\beta_{25} \geq 75$
Weight AM.3.VM.A/B/P...	1,2 Kg
Weight AM.3.VM.AB...	1,3 Kg
Weight AM.3.VI.A/B...	2 Kg
Weight AM.3.VI.AB...	2,2 Kg

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

**

VM = Maximum pressure

VI = Maximum pressure crossline

**

Adjustment on the lines

AM.3.VM Version = A / B / P / AB

AM.3.VI Version = A / B / AB

*

Type of adjustment

M = Plastic knob

C = Grub screw

*

Setting ranges at port A/B/P

1 = max. 50 bar (white spring)

2 = max. 150 bar (yellow spring)

3 = max. 320 bar (green spring)

*

Setting ranges at port B

(Omit if the setting is same as that at port A)

1 = max. 50 bar (white spring)

2 = max. 150 bar (yellow spring)

3 = max. 320 bar (green spring)

**

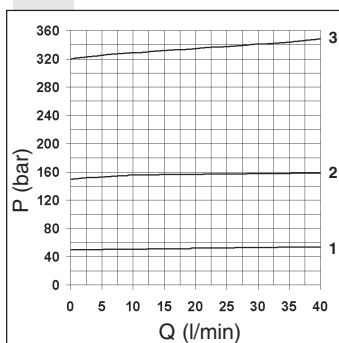
00 = No variant

V1 = Viton

3

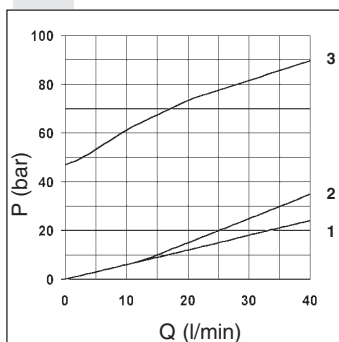
Serial No.

PRESSURE - FLOW RATE

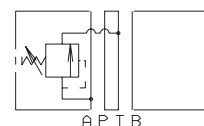


Curves n° 1 - 2 - 3 = setting ranges

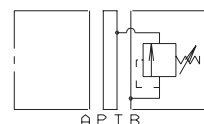
MINIMUM SETTING PRESSURE



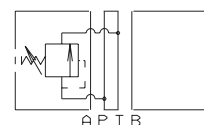
HYDRAULIC SYMBOLS



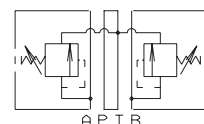
AM.3.VM.A



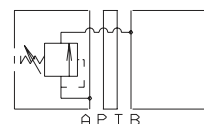
AM.3.VM.B



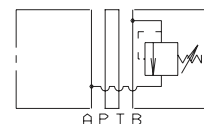
AM.3.VM.P



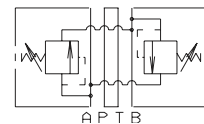
AM.3.VM.AB



AM.3.VI.A



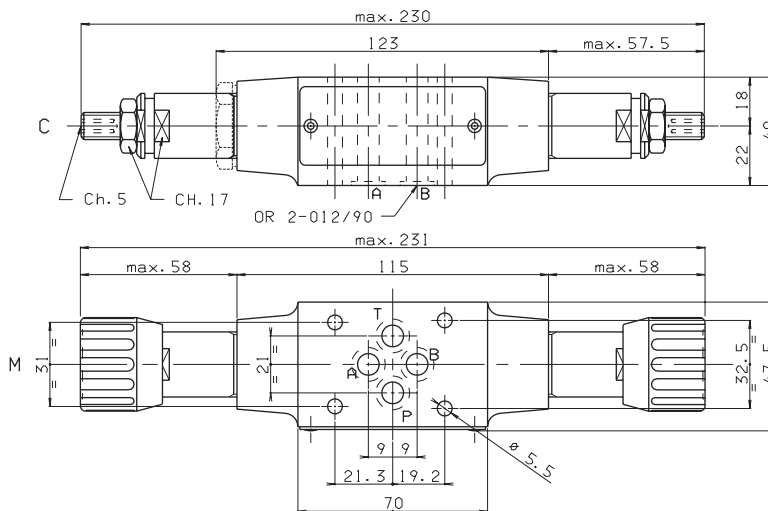
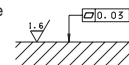
AM.3.VI.B



AM.3.VI.AB

OVERALL DIMENSIONS

AM.3.VM.AB...

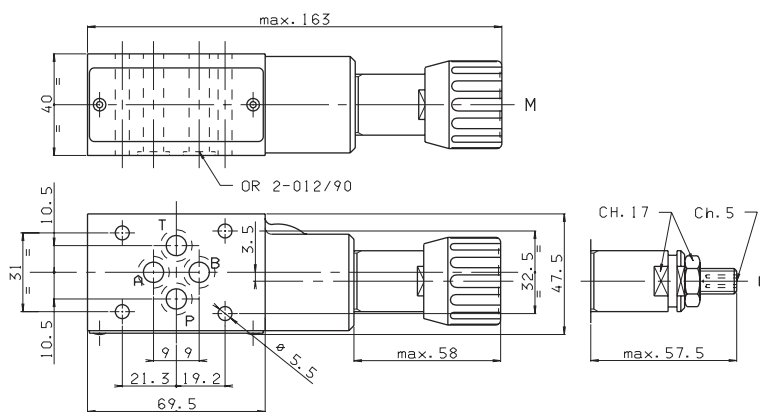
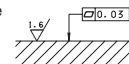

Support plane
specifications


Type of adjustment

M Plastic knob

C Grub screw

AM.3.VM.P...

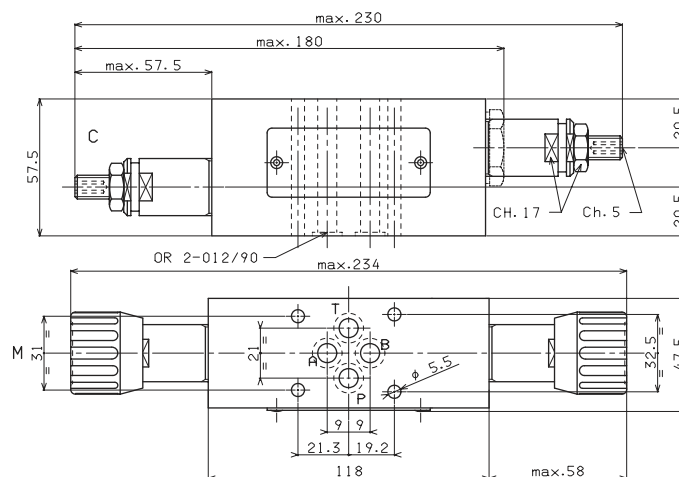
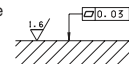

Support plane
specifications


Type of adjustment

M Plastic knob

C Grub screw

AM.3.VI.AB...


Support plane
specifications


Type of adjustment

M Plastic knob

C Grub screw



AM.3.CP...

CMP.10... CH. V PAGE 19

SCREWS AND STUDS CH. IV PAGE 21

AM.3.CP... MODULAR BACK PRESSURE VALVE CETOP 3



AM3CP type back pressure valves are damped in-line direct acting pressure relief valves fitted with bypass non-return valves.

Adjustment within the range 2 ÷ 320 bar is by means of a grub screw or a plastic knob, on ports A or B (single) or AB (double).

The cartridge is the direct acting type CMP10.

These valves are especially used on vertically working cylinders with dragging loads.

Max. operating pressure	350 bar
Setting ranges:	spring 1 max. 50 bar
	spring 2 max. 150 bar
	spring 3 max. 320 bar
Max. flow	40 l/min
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 $\beta_{25} \geq 75$
Weight AM.3.CP.A/B...	2 Kg
Weight AM.3.CP.AB...	2,7 Kg

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

CP

Back pressure valve

**

Control on lines A / B / AB

*

Type of adjustment

M = Plastic knob

C = Grub screw

*

Setting ranges

1 = max. 50 bar (white spring)

2 = max. 150 bar (yellow spring)

3 = max. 320 bar (green spring)

**

00 = No variant

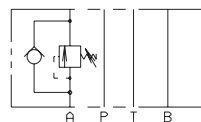
V1 = Viton

3

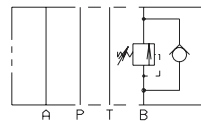
Serial No.

For the minimum permissible setting pressure depending on the spring, see minimum pressure setting curve.

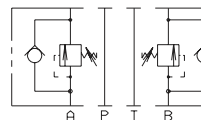
HYDRAULIC SYMBOLS



AM.3.CP.A

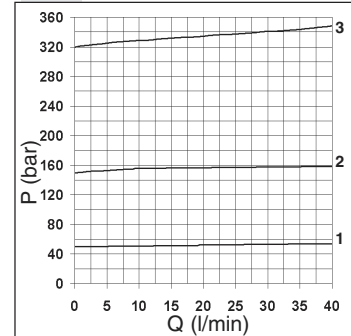


AM.3.CP.B

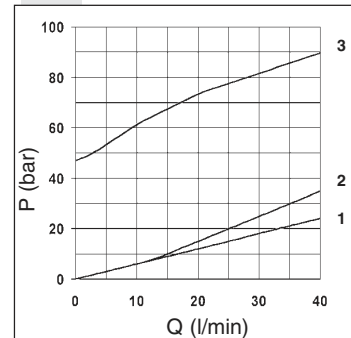


AM.3.CP.AB

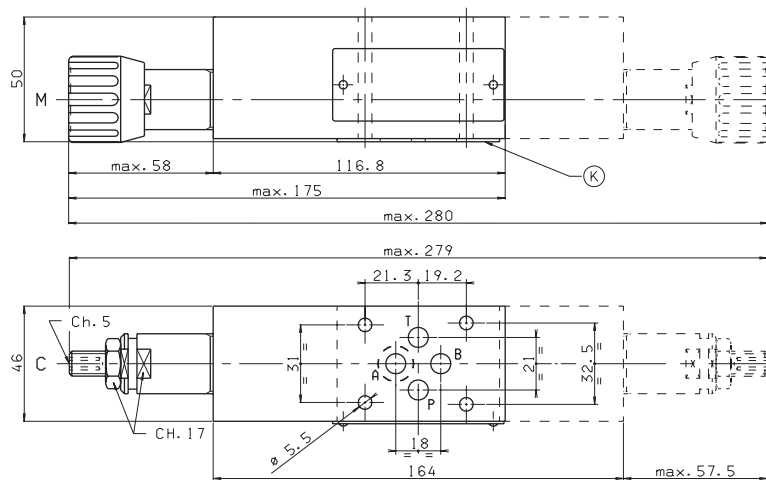
PRESSURE - FLOW RATE



MINIMUM SETTING PRESSURE



OVERALL DIMENSIONS



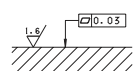
K = OR plate

Type of adjustment

M Plastic knob

C Grub screw

Support plane specifications





AM.3.RD / AM.3.SD...

SCREWS AND STUDS

CH. IV PAGE 21

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

**

RD = Direct pressure reducing valve
SD = Direct pressure sequencing valve

*

Control on lines

AM.3.RD version = A / P

AM.3.SD version = P

*

1 = Positive overlap

2 = Negative overlap

Omit for version AM3SD

*

Type of adjustment

C = Grub screw

V = Handwheel

*

Setting ranges

1 = max. 2 ÷ 30 bar (white spring)

2 = max. 10 ÷ 120 bar (yellow spring)

3 = max. 60 ÷ 250 bar (green spring)

**

00 = No variant

V1 = Viton

4

Serial No.

AM.3.RD... /AM.3.SD... MODULAR PRESSURE

REDUCING / PRESSURE SEQUENCING VALVES CETOP 3

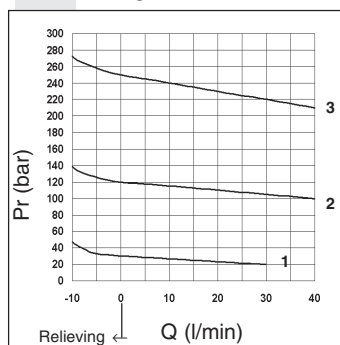


AM3RD and AM3SD valves are direct acting spool type pressure reducing and sequencing units, respectively, with one end pre-loaded by means of a spring on the other end exposed to the hydraulic pressure.

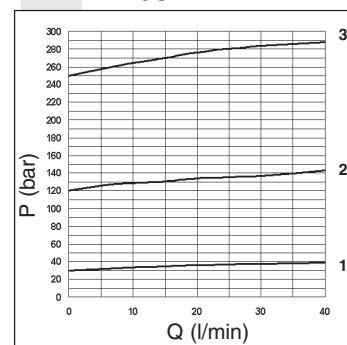
The drainage is drained within the valve to port T. Pressure is adjustable by means of a screw and locknut, or of a handwheel. Three types of springs allow adjustment within the range 2÷250 bar. The pressure reducing valves are available in two versions: with positive overlap (suitable with low flow rate) and with negative overlap to obtain a greater pressure re-instatement speed.

Max. operating pressure: port P	350 bar
Max. pressure adjustable	250 bar
Setting ranges:	
spring 1	2 ÷ 30 bar
spring 2	10 ÷ 120 bar
spring 3	60 ÷ 250 bar
Max. flow	40 l/min
Internal drainage RD:	
Positive overlap version	0,5 l/min
Negative overlap version	2 l/min
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 $\beta_{25} \geq 75$
Weight	1,3 Kg

PRESSURE - FLOW RATE
AM3RD

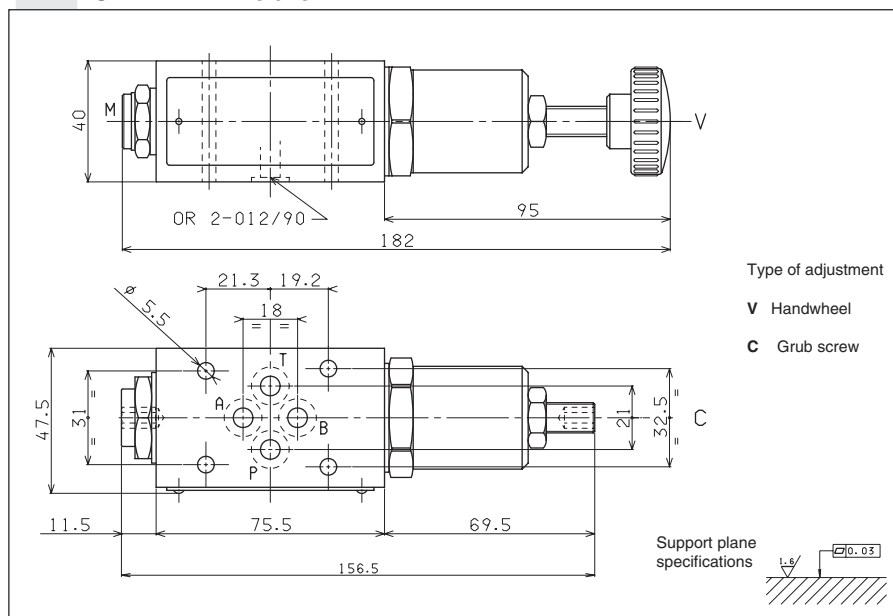


PRESSURE - FLOW RATE
AM3SD



The fluid used is a mineral based oil with a viscosity of 46 mm²/sec at 40 degrees C. The tests have been carried out at with a fluid temperature of 40 degrees C.

OVERALL DIMENSIONS

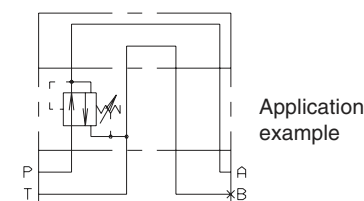
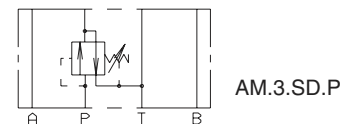
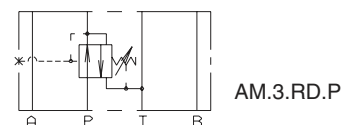
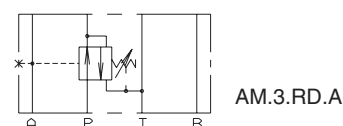


Type of adjustment

V Handwheel

C Grub screw

HYDRAULIC SYMBOLS





AM.3.VR...

CVR.20... CH. V PAGE 23

SCREWS AND STUDS CH. IV PAGE 21

AM.3.VR... MODULAR REDUCING VALVES WITH RELIEVING - PILOT OPERATED CETOP 3



These pressure reducing valves ensure a minimum pressure variation on the P or A port with changing flow rate up to 90 l/min.

Three spring types allow adjustment within the range 7 ÷ 250 bar. Manual adjustment is available by a grub screw or plastic knob.

The RELIEVING SYSTEM inside the valve AM3VR allows the passage from the setting pressure line to T line of the flow through the valve to avoid the increasing of pressure in the reduced-pressure line by diverting exceeding flow to reservoir. A bypass module with check valve for free flow from A to AR port (see hydraulic symbol) is available..

Max. operating pressure	350 bar
Setting ranges:	spring 1 max. 60 bar
	spring 2 max. 120 bar
	spring 3 max. 250 bar

Maximum allowed Δp pressure between the inlet and outlet pressure 150 bar

Max. flow	40 l/min
Draining on port T	0,5 ÷ 0,7 l/min
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 $\beta_{25} \geq 75$
Weight	1,36 Kg
Weight bypass version	2 Kg

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

VR

Pilot operated pressure reducing valve with relieving

*

Control on lines

P = Drain on T

A = Drain on T

D = Drain on B reduct pressure on A

*

Drain connection

E = External (only for control on the P line)

I = Internal (Standard)

B

Version with bypass on line A only

Omit if not required

*

Type of adjustment

M = Plastic knob

C = Grub screw

*

Setting ranges

1 = max. 60 bar (white spring)

2 = max. 120 bar (yellow spring)

3 = max. 250 bar (green spring)

**

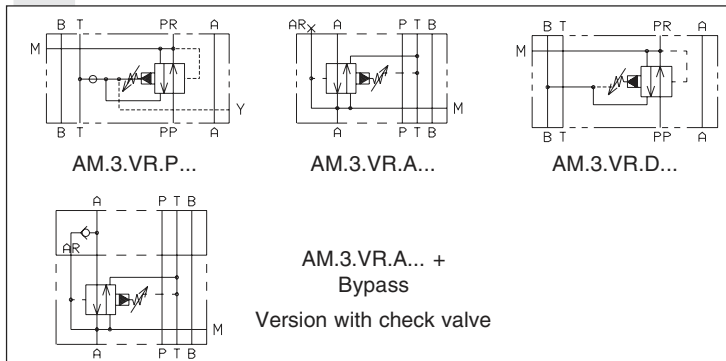
00 = No variant

V1 = Viton

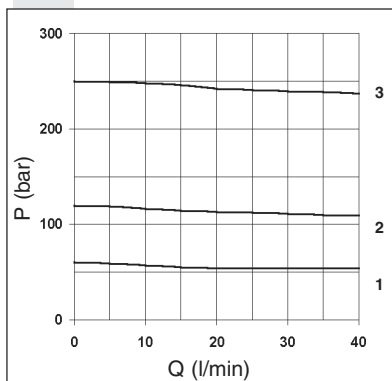
1

Serial No

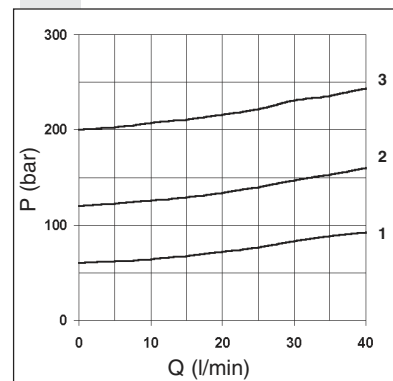
HYDRAULIC SYMBOLS



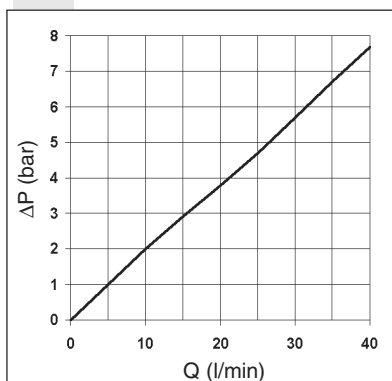
PRESSURE-FLOW RATE



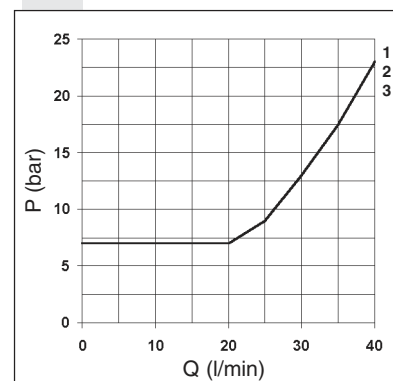
PRESSURE-FLOW OF RELIEVING



ΔP AM.3.VR... + BYPASS



MINIMUM SETTING PRESSURE



Curves n° 1 - 2 - 3 = setting ranges

The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40°C. The tests have been carried out a fluid temperature of 50°C.

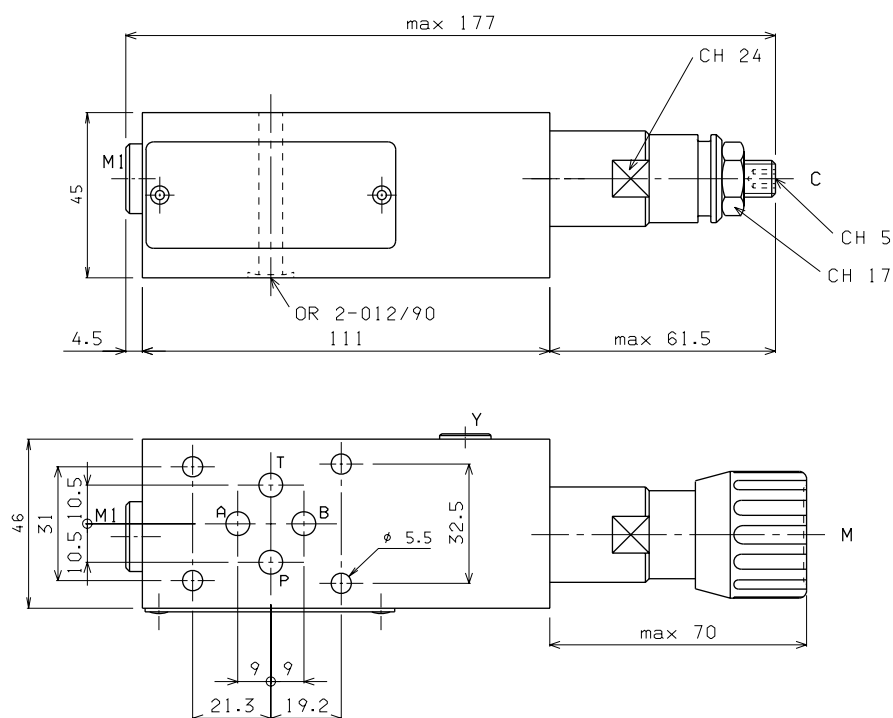
To changes valves AM.3.VR.P... from internal to external drainage it is necessary:

- screw out the plug on the "Y" port
- screw out the plug T.C.E.I. M8x1 from the body
- screw in a screw S.T.E.I. M6
- rescrew the T.C.E.I. M8x1 plug on the body

NOTE: the external draining can be used as a piloting line (please, contact our Technical Service for other informations)

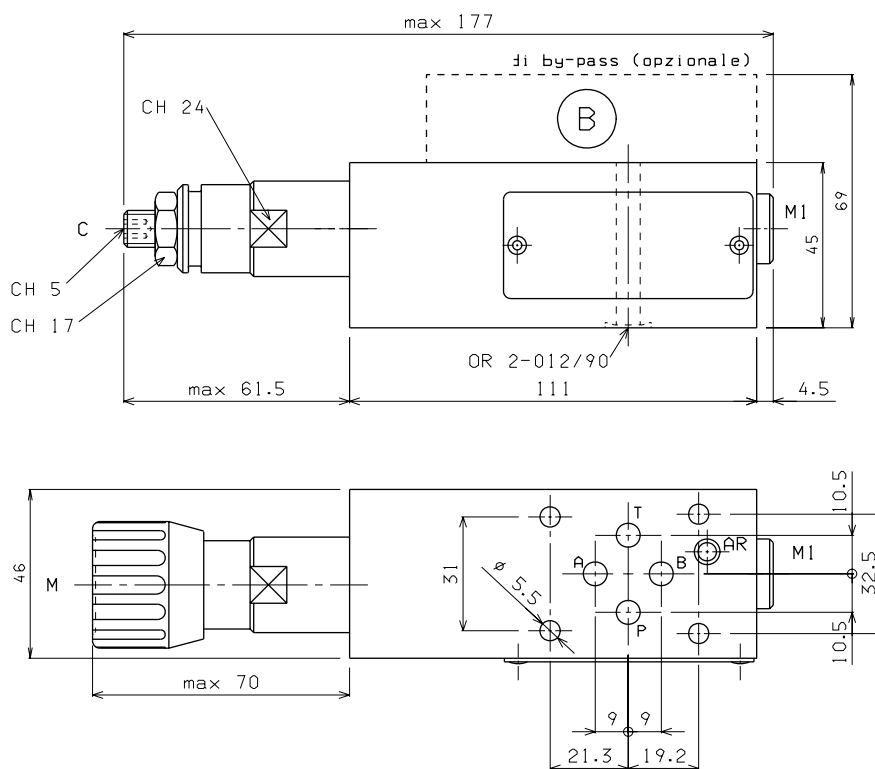
OVERALL DIMENSIONS

AM.3.VR.P... / AM.3.VR.D...



AM.3.VR.A... + BYPASS

Ⓑ Bypass (optional)
 Ordering code:
 V89.45.000
 (if ordered separately)

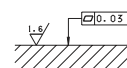


Type of adjustment

M Plastic knob

C Grub screw

Support plane specifications



AM.3.VS... MODULAR SEQUENCING VALVES CETOP 3



AM.3.VS...

CVS.20... CH. V PAGE 24

SCREWS AND STUDS CH. IV PAGE 21

The sequence valve are used to assure that a secondary circuit is pressurized when the setting pressure is reached.

These valves grant a minimum variation of the setting pressure with a changing flow up to 40 l/min (see diagram).

Three spring types allow adjustment within the range 7 ÷ 250 bar. Manual adjustment is available by a grub screw or plastic knob.

The cartridge used is the "CVS" type.

Max. operating pressure	350 bar
Setting ranges:	Spring 1 max. 60 bar
	Spring 2 max. 120 bar
	Spring 3 max. 250 bar
Max. flow	40 l/min
Draining on port T	0,5 ÷ 0,7 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 $\beta_{25} \geq 75$
Weight	1,36 Kg

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

VS

Sequencing valve

*

Drain connection

E = External

I = Internal (Standard)

*

Type of adjustment

M = Plastic knob

C = Grub screw

*

Setting ranges

1 = max. 60 bar (white spring)

2 = max. 120 bar (yellow spring)

3 = max. 250 bar (green spring)

**

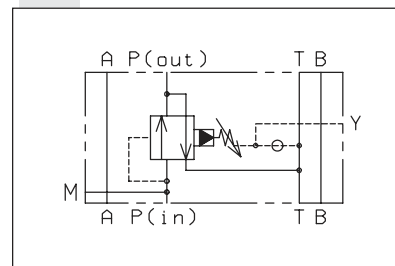
00 = No variant

V1 = Viton

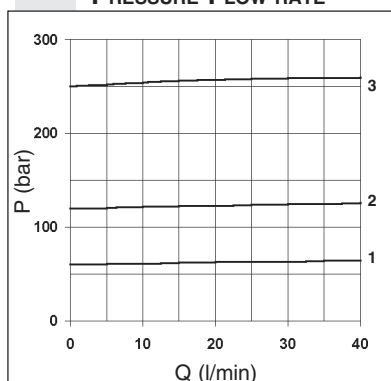
1

Serial No

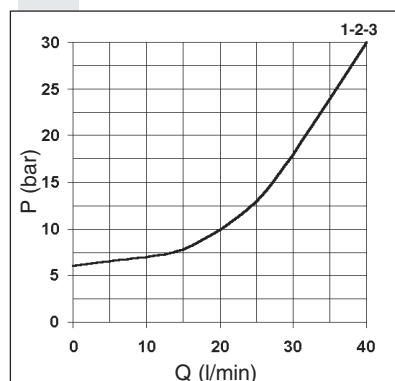
HYDRAULIC SYMBOL



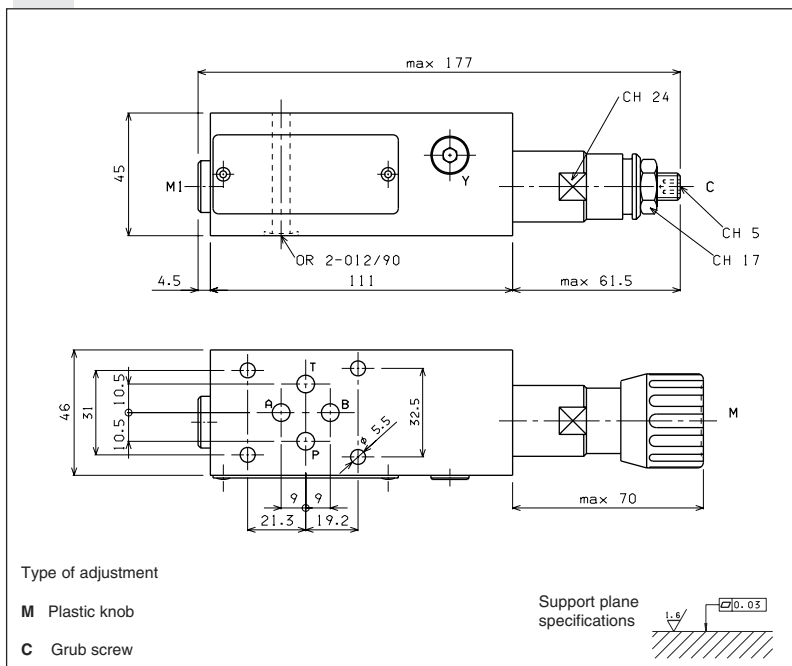
PRESSURE-FLOW RATE



MINIMUM SETTING PRESSURE



OVERALL DIMENSIONS



Type of adjustment

M Plastic knob

C Grub screw

Support plane specifications

Curves n° 1 - 2 - 3 = setting ranges

The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40°C. The tests have been carried out at a fluid temperature of 50°C.

To changes valves AM.3.VS... from internal to external drainage it is necessary:

- screw out the plug on the Y port
- screw out the plug T.C.E.I. M8x1 from the body
- screw in a screw S.T.E.I. M6
- rescrew the T.C.E.I. M8x1 plug on the body

NOTE: the external draining can be used as a piloting line (please, contact our Technical Service for other informations)



AM.3.SH... MODULAR SHUTTLE VALVES CETOP 3



Modular valves type AM.3.SH are actuator load pressure selecting units, as they are fitted with an integral shuttle valve cartridge which allows taking of the highest pressure signal to the external port via displacement of a ball. They are usually employed to signal the actuator load to the pressure compensator of load sensing pump, or for the command of fail-safe brakes.

For seat overall dimensions see cartridge shuttle SH.03 type.

Max. operating pressure	350 bar
Max. flow at the cartridge	3 l/min
Max. flow at ports A/B/P/T	40 l/min
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 $\beta_{25} \geq 75$
Weight	1 Kg
Cartridge tightening torque	20÷30 Nm/2÷3 Kgm

AM.3.SH...

SH.03... CH. V PAGE 16

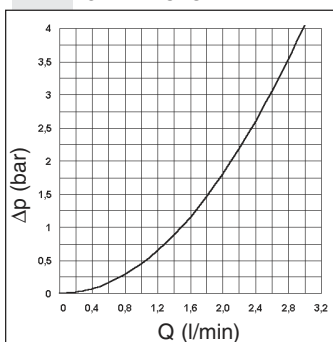
SCREWS AND STUDS CH. IV PAGE 21

4

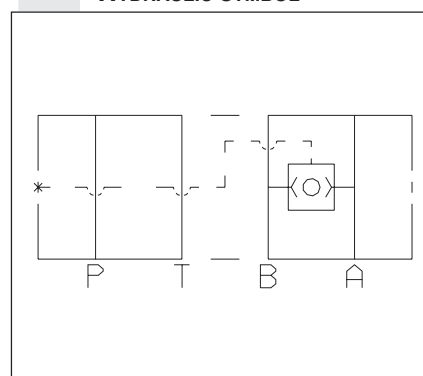
ORDERING CODE

AM	Modular valve
3	CETOP 3/NG6
SH	Cartridge shuttle
**	00 = No variant V1 = Viton
1	Serial No.

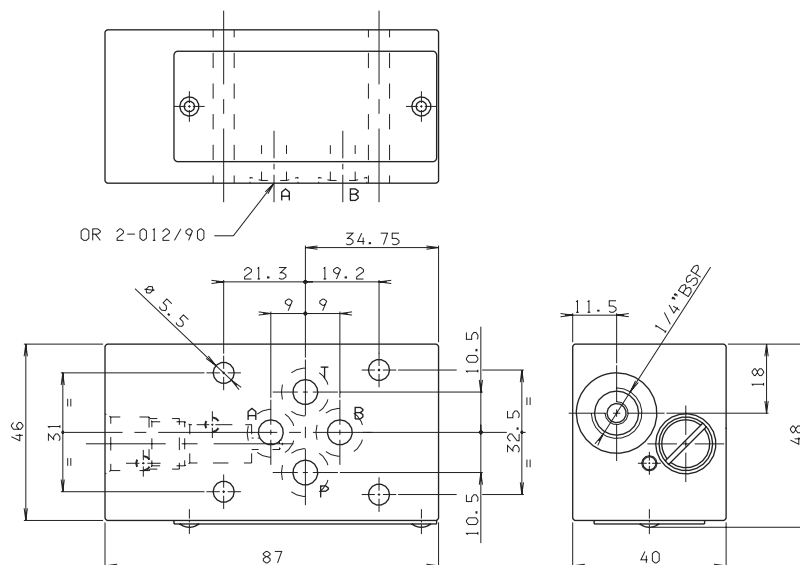
PRESSURE DROPS ON THE SHUTTLE VALVE



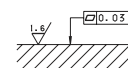
HYDRAULIC SYMBOL



OVERALL DIMENSIONS



Support plane specifications



AM.3.QF... MODULAR FLOW REGULATOR CETOP 3



AM.3.QF...

SCREWS AND STUDS

CH. IV PAGE 21

AM.3.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.

The standard valve configuration allows "meter in" regulation, while it is possible to obtain "meter out" regulation by turning the valve by 180° along its longitudinal axis.

Max. operating pressure	350 bar
Max. pressure adjustable	250 bar
Flow rate regulation	on 8 screw turns
Max. flow	40 l/min
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 $\beta_{25} \geq 75$
Weight	1,5 Kg

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

QF

Non compensated throttle valve

Control on lines
A / B / P / AB

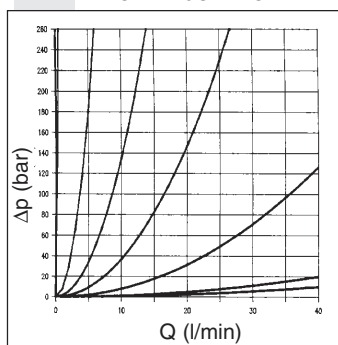
Type of adjustment
M = Plastic knob
C = Grub screw

00 = No variant
V1 = Viton

4

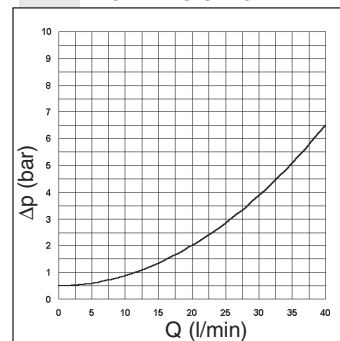
Serial No.

FLOW REGULATION

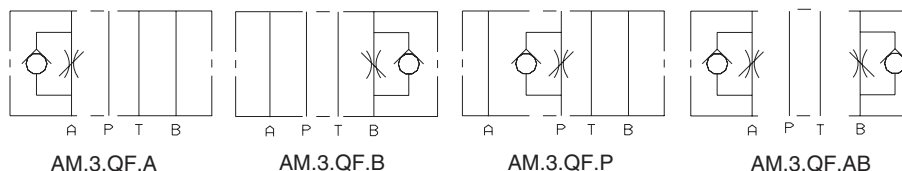


FREE FLOW

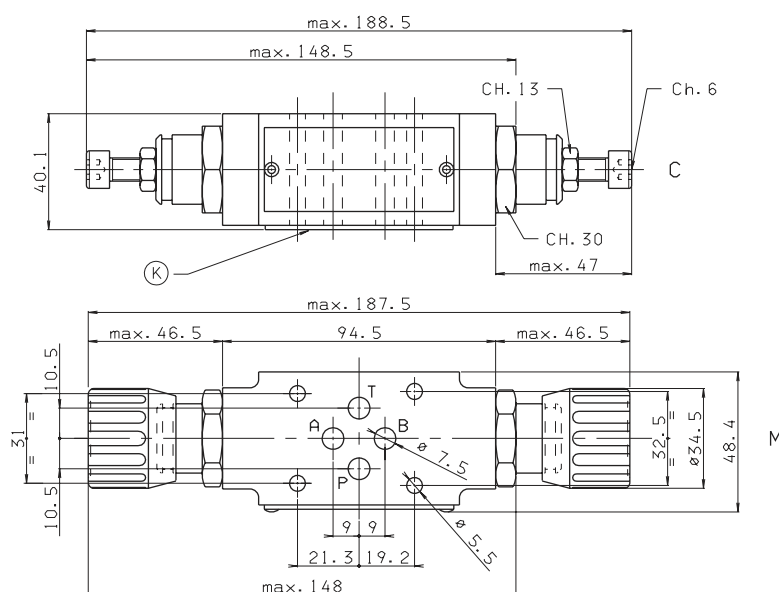
TOWARDS CHECK VALVE



HYDRAULIC SYMBOLS



OVERALL DIMENSIONS



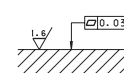
K = OR plate

Type of adjustment

M Plastic knob

C Grub screw

Support plane
specifications





AM.66... MODULAR COMPENSATED FLOW CONTROL ASSEMBLY CETOP 3

aron
S.p.A.

This is an intermediate block (AM.66) for modular mounting of one or two flow rate regulators type QC.3...

The flow regulator type QC.3.2... must be ordered separately.

Max. operating pressure	320 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 $\beta_{25} \geq 75$
Weight	1,3 Kg

AM.66...

QC.3.2... CH. III PAGE 2

SCREWS AND STUDS CH. IV PAGE 21

ORDERING CODE

AM

Modular valve

66

Size

Control on lines

A / B / P / PT* / AB

For T / A1 / B1 / A1B1 versions see table "Hydraulic symbols"

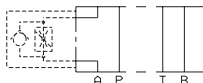
00 = No variant

V1 = Viton

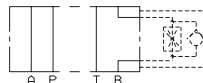
3

Serial No.

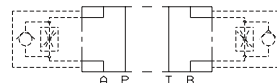
HYDRAULIC SYMBOLS



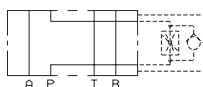
AM.66.A



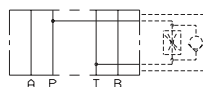
AM.66.B



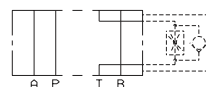
AM.66.AB



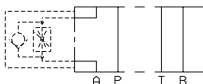
AM.66.P



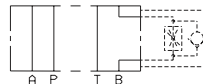
AM.66.PT*



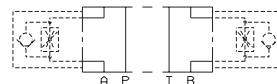
AM.66.T



AM.66.A1



AM.66.B1



AM.66.A1B1

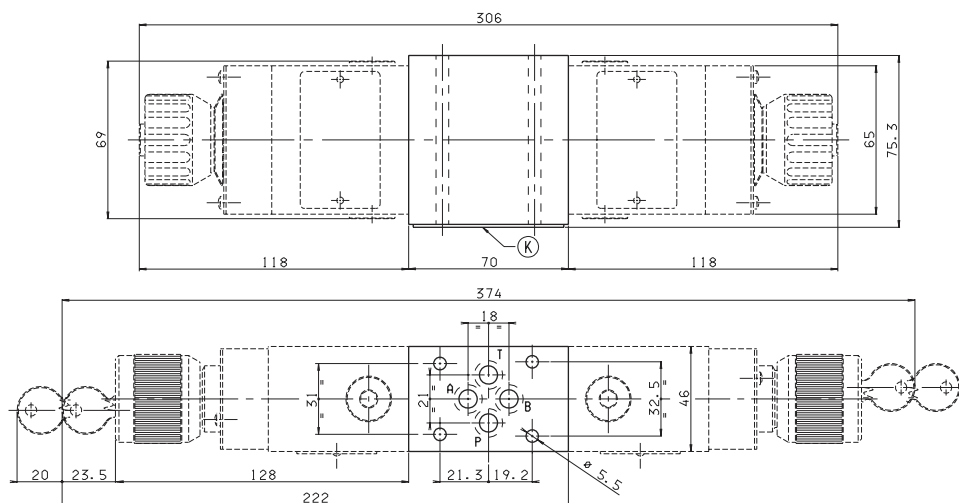
PT * = From line towards exhaust (**P**→**T** drain)

• In order to obtain versions with regulation on **T**, the AM.66.P regulator carrying block should be turned by 180°.

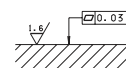
• In order to obtain versions **A1**, **B1** and **A1B1** the AM.66.B, AM.66.A or AM.66.AB regulators carrying block should be turned by 180°.

OVERALL DIMENSIONS

K = OR plate



Support plane
specifications





A.66... MODULAR FLOW CONTROL VALVES

FAST / SLOW ASSEMBLY CETOP 3



This is modular assembly ON/OFF solenoid valve which, by fitting 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 operational limit 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 D15 for DC voltage and K12 for AC voltage.

Max. operating pressure	320 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 $\beta_{25} \geq 75$
Weight with an AC solenoid	2,2 Kg
Weight with a DC solenoid	2,4 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/s at 40 degrees C.

A.66...

"D15" DC COILS	CH. I PAGE 67
"K12" AC COILS	CH. I PAGE 18
STANDARD CONNECTORS	CH. I PAGE 19
QC.3.2...	CH. III PAGE 2
SCREWS AND STUDS	CH. IV PAGE 21

ORDERING CODE

A

Speed control valve

66

Size

E

Electrical operator

120 = Normally open
121 = Normally closed
See table hydraulic symbols

Control on lines **A/B/P/T** (see symbols)
The interface holder "H" must be turned by 180° in order to obtain the **A1** and **B1** versions.

Voltage: see tab.1

Variants: see tab.2

3 = Serial No. for AC voltage
4 = Serial No. for DC voltage

TAB.1 "E" OPERATOR TYPE

AC VOLTAGE

A	24V/50Hz
B	48V/50Hz*
J	115V/50Hz - 120V/60Hz
Y	230V/50Hz - 240V/60Hz
E	240V/50Hz*
F	24V/60Hz*
K	AC without coils

DC VOLTAGE

L	12V
M	24V
V	28V*
N	48V*
Z	102V*
P	110V*
X	205V*
W	DC without coils

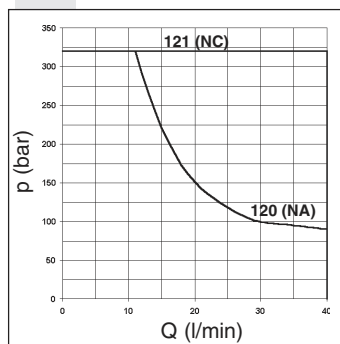
Voltage codes are not stamped on the plate, they are readable on the coils.

(*) Special voltage

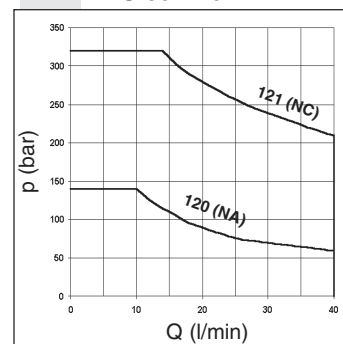
TAB.2 - VARIANTS

No variant	00
(connectors as in the drawing)	
Viton	V1
Indicator light	X1
Rectifier	R1
Cable gland "PG11"	C1
Valve without connector (coil)	S1
Indicator light + rectifier	XR

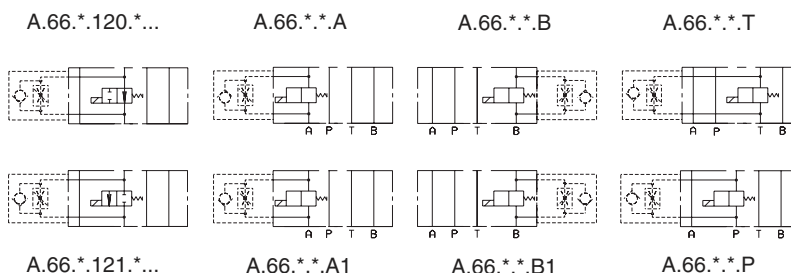
LIMITS OF USE DC SOLENOID



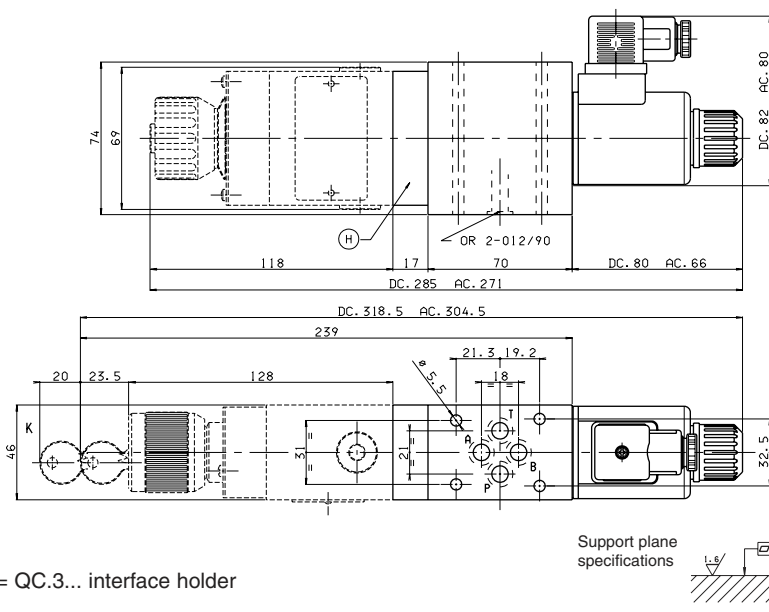
LIMITS OF USE AC SOLENOID



HYDRAULIC SYMBOLS



OVERALL DIMENSIONS





AM.3.RGT... MODULAR VALVES FOR REGENERATIVE CIRCUIT CETOP 3

aron
S.p.A.

This modular valve produces a regenerative system to increase the actuator (differential cylinder) exit speed as shown in the diagram.

In particular, if a cylinder is used with a 2:1 ratio for the operating surfaces, the exit and re-entry speeds are the same.

Max. operating pressure	350 bar
Max. flow at port A/B/P/T	20 l/min
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 $\beta_{25} \geq 75$
Weight	1,7 Kg

AM.3.RGT...

SCREWS AND STUDS

CH. IV PAGE 21

4

ORDERING CODE

AM

Modular valve

3

CETOP 3/NG6

RGT

For regenerative circuit

A

Size of check valves 3/8"BSP

1

Opening pressure
1 bar

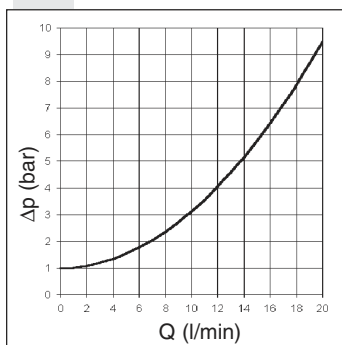
**

00 = No variant
V1 = Viton

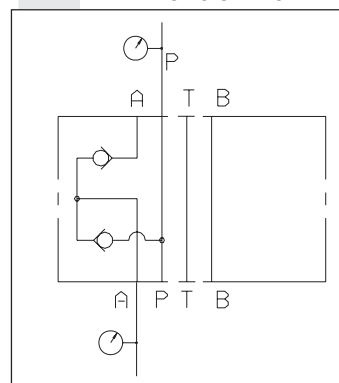
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Serial No.

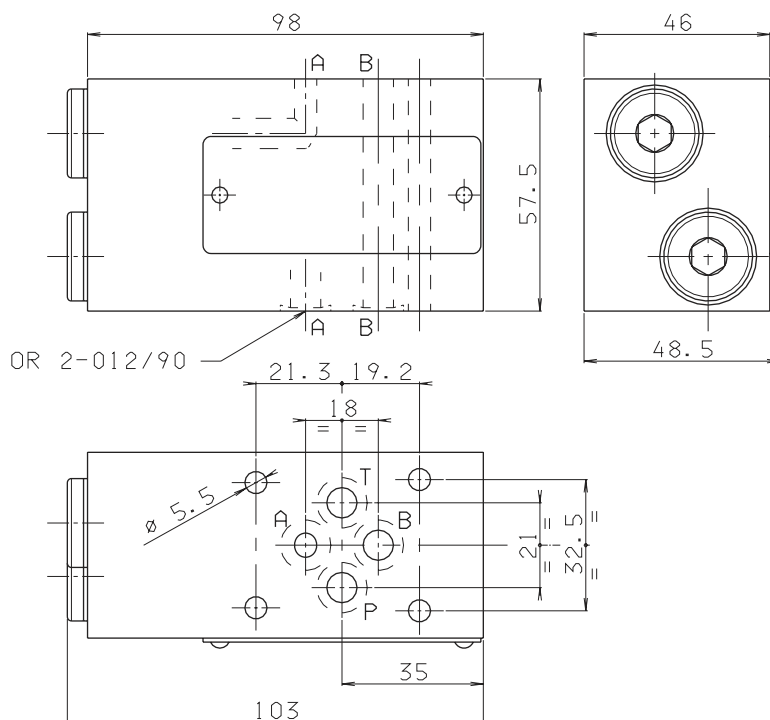
PRESSURE DROPS A-P



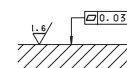
HYDRAULIC SYMBOL



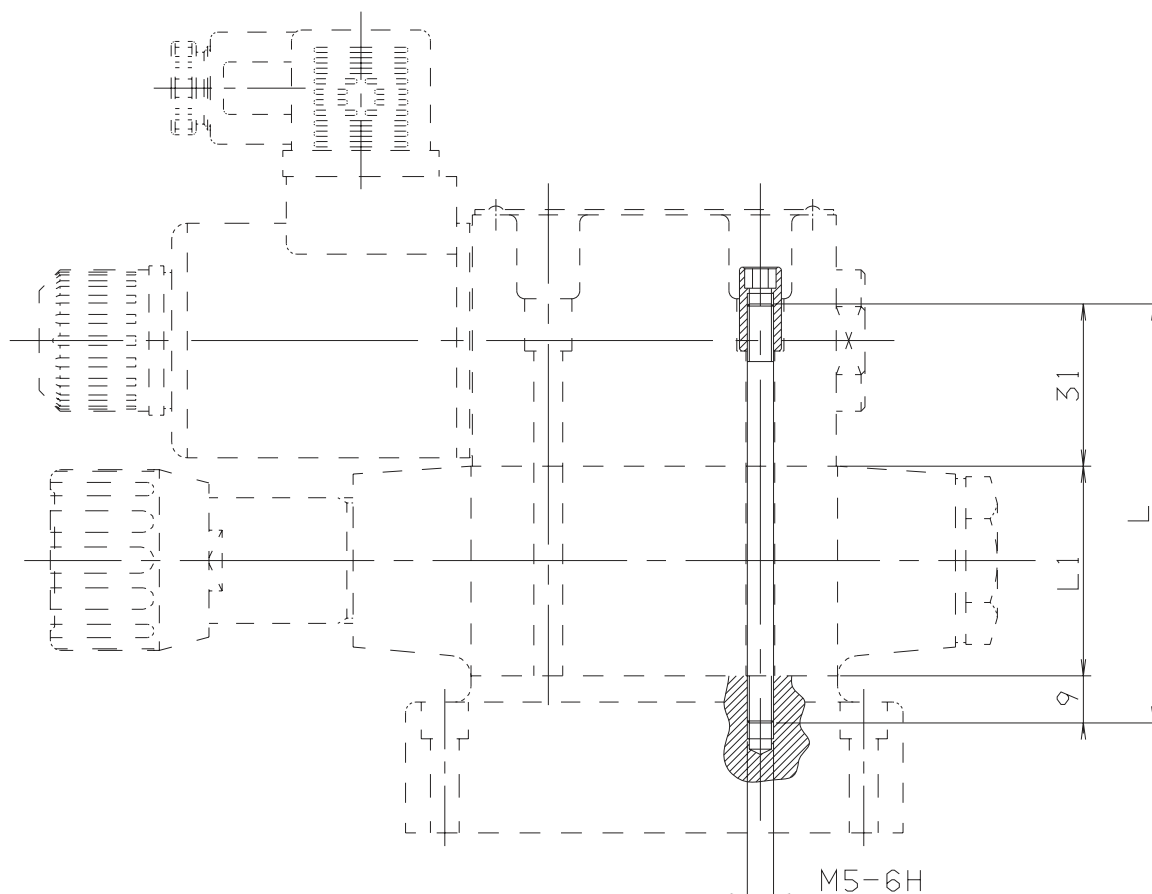
OVERALL DIMENSIONS



Support plane
specifications



OVERALL DIMENSIONS

Tighten M27.05.0001 to a torque of **5 Nm / 0.5 Kgm max.**

4

SCREWS CODE T.C.E.I	L	L1	COMPOSITION	Qty.	
Q26.07.4068	30		AD3...	4	
Q26.07.4075	70	40	AD3... + 1 AM3... (ISO)	4	
Q26.07.4076	75	45	AD3... + AM3VR	4	
STUDS CODE	L	L1	COMPOSITION	SPECIAL NUTS CODE	Qty.
M80.10.0015	97	57,5	AD3... + AM3VI...	M27.05.0001	4
M80.10.0007	115	74	AD3... + A66 o AM66...	M27.05.0001	4
M80.10.0003	120	80	AD3... + 2 AM3... (ISO)	M27.05.0001	4
M80.10.0013	125	85	AD3... + AM3VR... + AM3... (ISO)	M27.05.0001	4
M80.10.0011	155	114	AD3... + A66... + AM3... (ISO)	M27.05.0001	4
M80.10.0005	160	119	AD3... + A66... + AM3VR	M27.05.0001	4
M80.10.0005	160	120	AD3... + 3 AM3... (ISO)	M27.05.0001	4
M80.10.0020	165	125	AD3 + AM3VR + 2 AM3... (ISO)	M27.05.0001	4
M80.10.0017	170	130	AD3 + AM3CP + 2 AM3... (ISO)	M27.05.0001	4
M80.10.0023	195	154	A66... + 2 AM3... (ISO)	M27.05.0001	4