

AM.3.RD... /AM.3.SD... MODULAR PRESSURE REDUCING / PRESSURE SEQUENCING VALVES CETOP 3



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

SCREWS AND STUDS

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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.

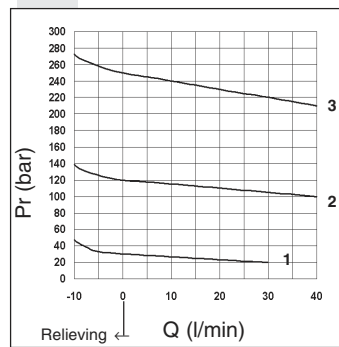
AM3RD and AM3SD valves are direct acting spool type pressure reducing and sequencing units, respectively, with one end pre-loaded by means of a spring at the other end exposed to the hydraulic pressure.

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 reinstatement speed.

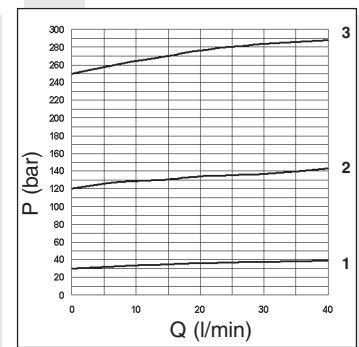
Max. operating pressure: port P	350 bar
Max. pressure adjustable	250 bar
Setting ranges:	
spring 1	2 ÷ 30 bar
spring 2	10 ÷ 120 bar
spring 3	60 ÷ 250 bar
Max. flow	40 l/min
Internal drainage RD:	
Positive overlap version	0,5 l/min
Negative overlap version	2 l/min
Hydraulic fluids	Mineral oils DIN 51524
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

4

PRESSURE - FLOW RATE AM3RD

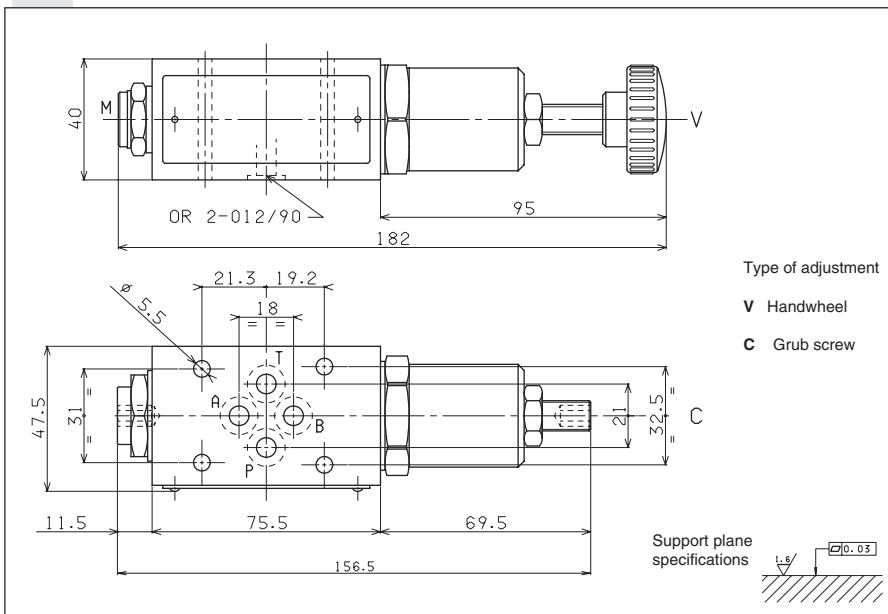


PRESSURE - FLOW RATE AM3SD



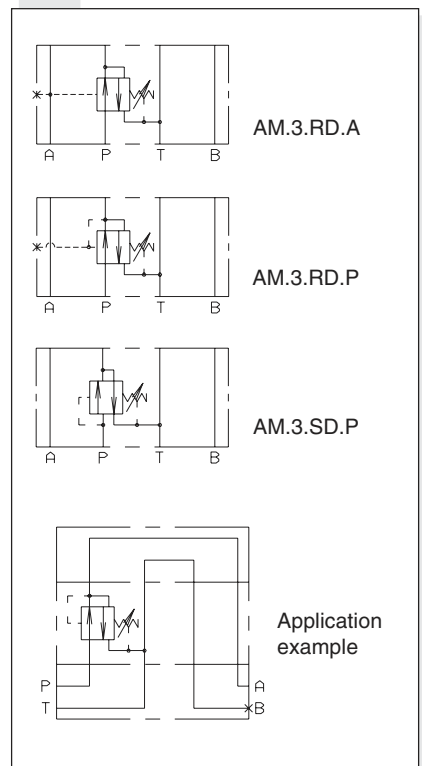
The fluid used is a mineral based oil with a viscosity of 46 mm²/sec at 40 degrees C. The tests have been carried out at with a fluid temperature of 40 degrees C.

OVERALL DIMENSIONS



Type of adjustment
V Handwheel
C Grub screw

HYDRAULIC SYMBOLS



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



AM.3.VR...

CVR.20... CH. V PAGE 23

SCREWS AND STUDS CH. IV PAGE 21

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

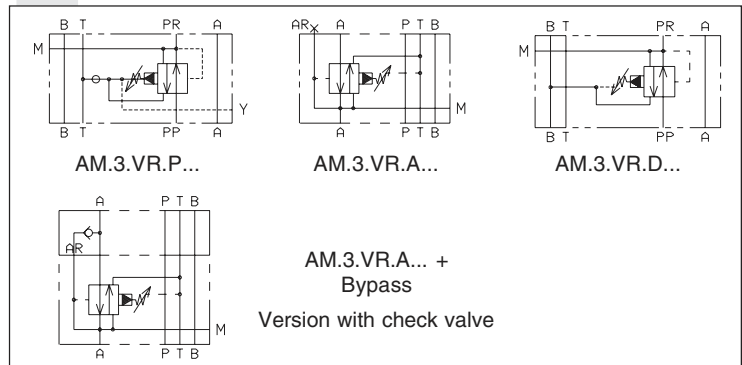
Maximum allowed Δp pressure between the inlet and outlet pressure 150 bar

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

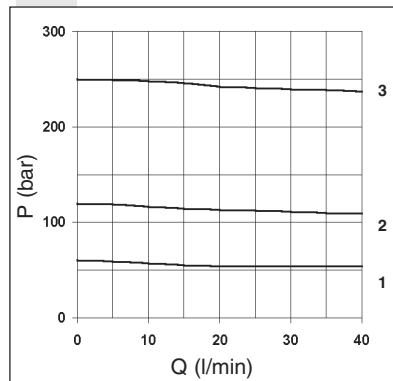
ORDERING CODE

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

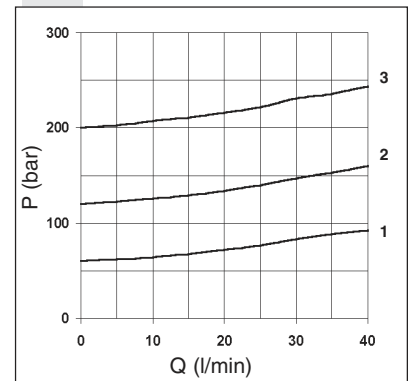
HYDRAULIC SYMBOLS



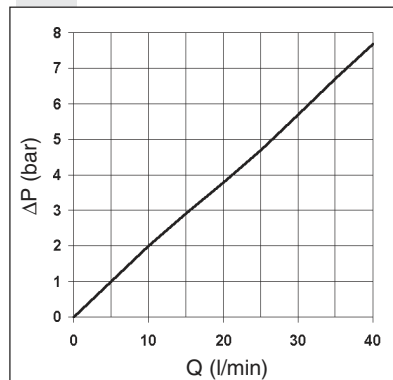
PRESSURE-FLOW RATE



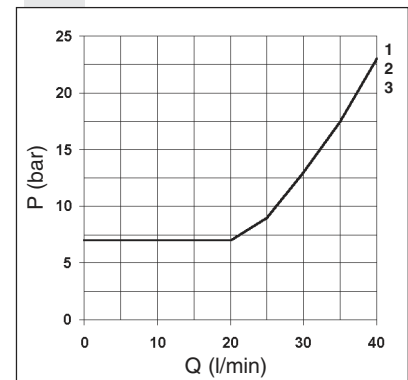
PRESSURE-FLOW OF RELIEVING



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:

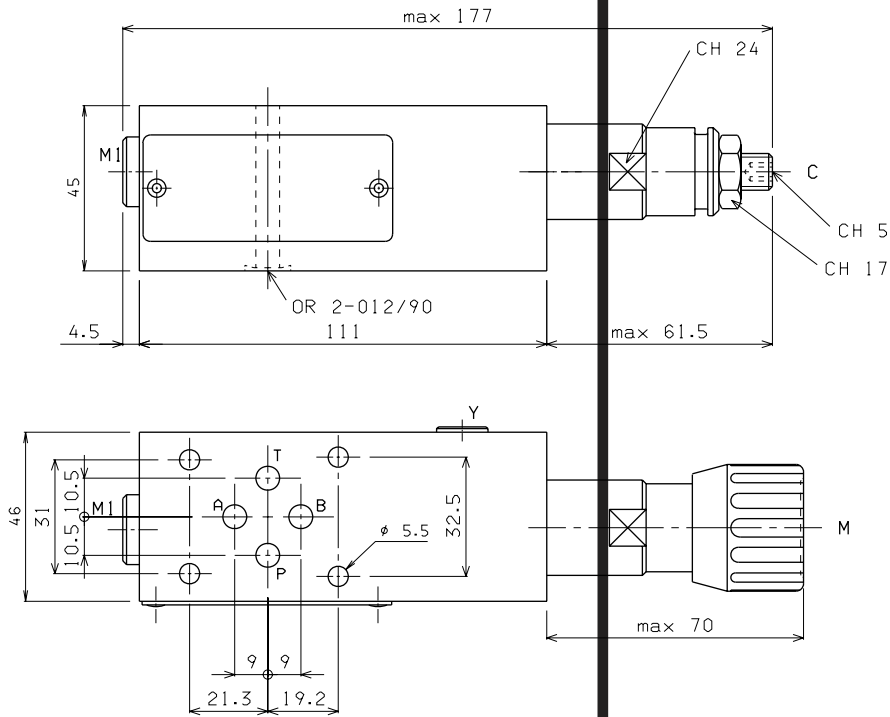
- screw out the plug on the "Y" port
- screw out the plug T.C.E.I. M8x1 from the body
- screw in a screw S.T.E.I. M6
- rescrew the T.C.E.I. M8x1 plug on the body

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

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

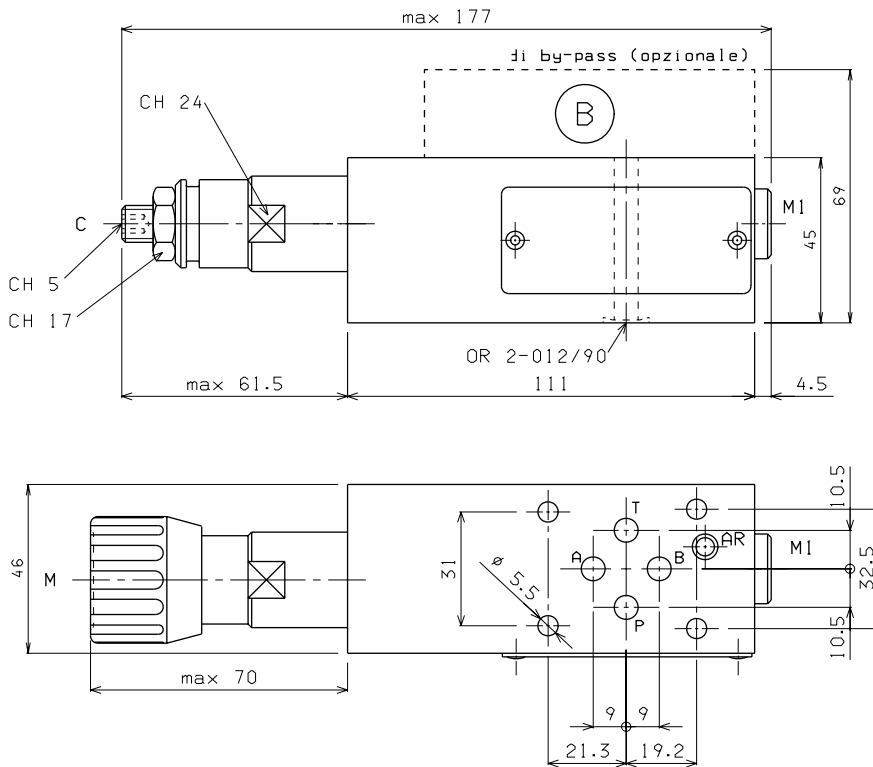
OVERALL DIMENSIONS

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

