

AM.3.VR...

CVR.20... BFP CARTRIDGE CATALOGUE

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 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

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)

**

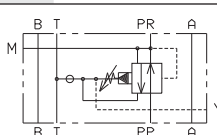
00 = No variant

V1 = Viton

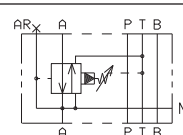
1

Serial No

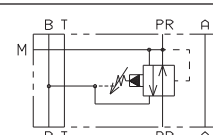
HYDRAULIC SYMBOLS



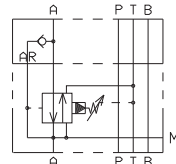
AM.3.VR.P...



AM.3.VR.A...



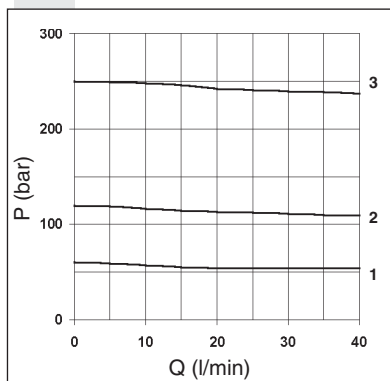
AM.3.VR.D...



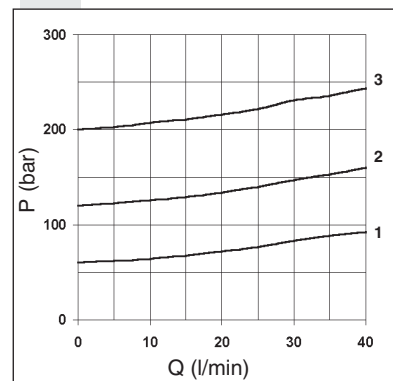
AM.3.VR.A... + Bypass

Version with check valve

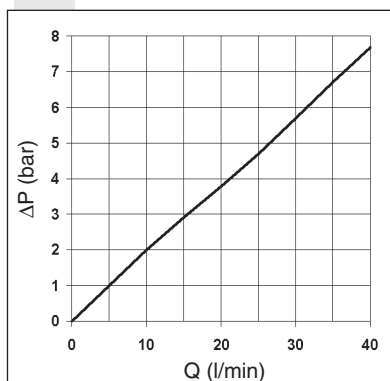
PRESSURE-FLOW RATE



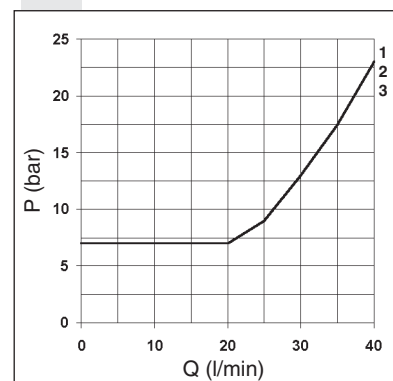
PRESSURE-FLOW OF RELIEVING



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 at a fluid temperature of 50°C.

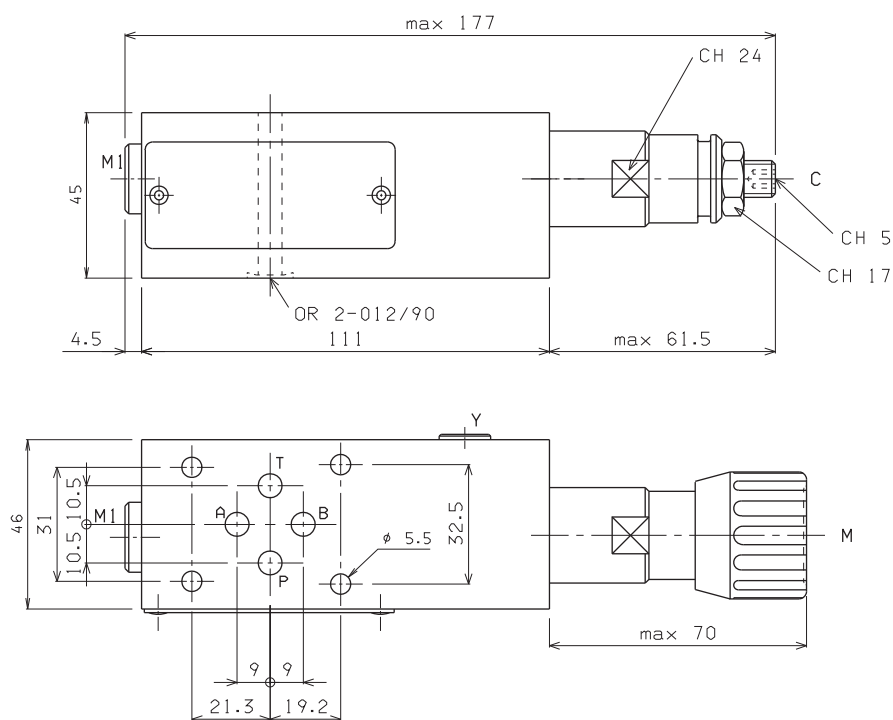
To change valves AM.3.VR.P... from internal to external drainage it is necessary:

- 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)

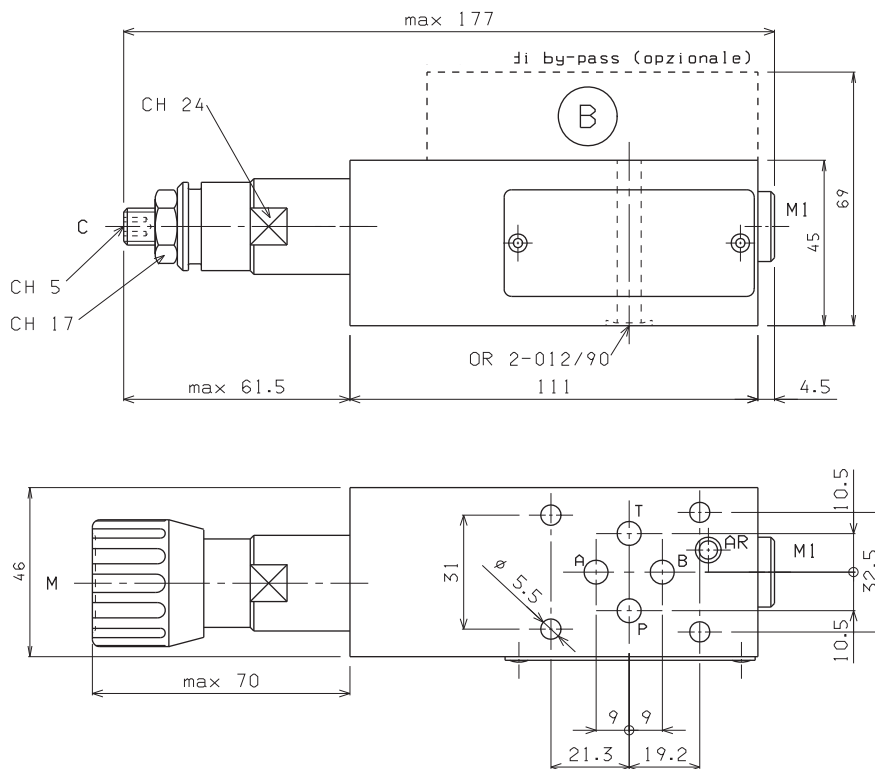
OVERALL DIMENSIONS

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

