

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



<b>AM.3.VR...</b>	
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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.

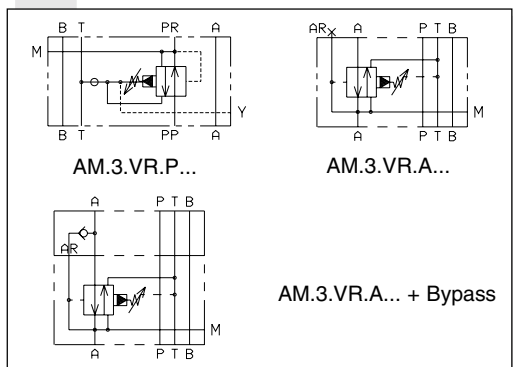
The RELIEVING SYSTEM inside the valve AM3VR allows the passage from the setting pressure line to T line of the flow through the valve to avoid the increasing of pressure in the reduced-pressure line by diverting exceeding flow to reservoir. A by-pass module with check valve for free flow from A to AR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

Max. operating pressure	320 bar
Setting ranges:	spring 1 max. 60 bar
	spring 2 max. 120 bar
	spring 3 max. 250 bar
Maximum allowed $\Delta p$ pressure between the inlet an 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 <sup>2</sup> /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 by-pass version	2 Kg

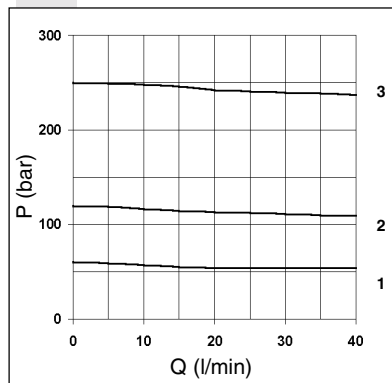
## ORDERING CODE

<b>AM</b>	Modular valve
<b>3</b>	CETOP 3/NG6
<b>VR</b>	Pilot operated pressure reducing valve with relieving
*	Control on lines <b>P / A</b>
*	Drain connection <b>E</b> = External (only for control on the P line) <b>I</b> = Internal (Standard)
<b>B</b>	Version with by-pass on line A only <b>Omit if not required</b>
*	Type of adjustment <b>M</b> = Plastic knob <b>C</b> = Grub screw
*	Setting ranges <b>1</b> = max. 60 bar ( <b>white spring</b> ) <b>2</b> = max. 120 bar ( <b>yellow spring</b> ) <b>3</b> = max. 250 bar ( <b>green spring</b> )
**	<b>00</b> = No variant <b>V1</b> = Viton
<b>1</b>	Serial No

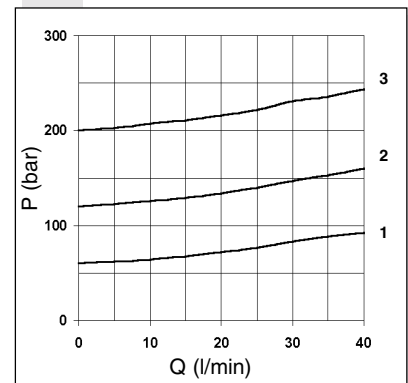
## HYDRAULIC SYMBOLS



## PRESSURE-FLOW RATE



## PRESSURE-FLOW OF RELIEVING



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

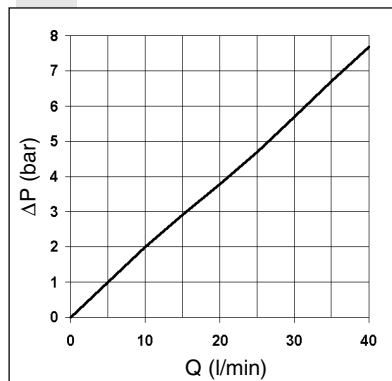
- screw out the plug on the "Y" port
- screw out the plug T.C.E.I. M8x1 from the body
- screw in a screw S.T.E.I. M6
- rescrew the T.C.E.I. M8x1 plug on the body

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

Curves n° 1 - 2 - 3 = setting ranges

The fluid used is a mineral oil with a viscosity of 46 mm<sup>2</sup>/s at 40°C. The tests have been carried out a fluid temperature of 50°C.

## $\Delta P$ AM.3.VR... + BY-PASS



## MINIMUM SETTING PRESSURE

