

AM5VR... MODULAR PRESSURE REDUCING VALVES WITH RELIEVING - PILOT OPERATED CETOP 5



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| AM5VR... | |
| CVR20... | CARTRIDGE CATALOGUE |
| SCREWS AND STUDS | CAP. IV • 36 |

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 with the range 7 ÷ 250 bar. Manual adjustment is available by a grub screw or plastic knob.

The RELIEVING SYSTEM inside the valve AM5VR 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.

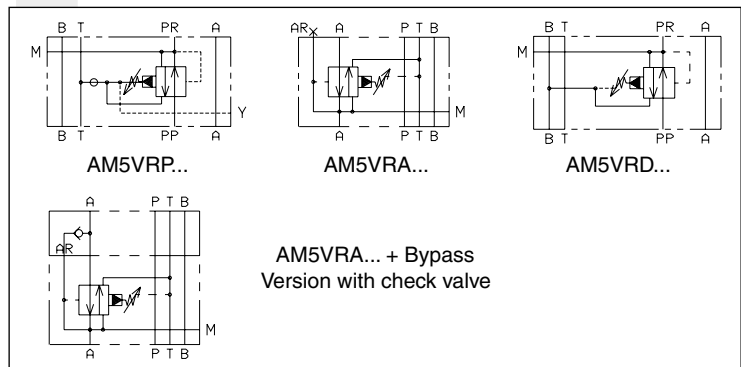
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|-------------------------|------------------|
| Max. operating pressure | 350 bar |
| Setting ranges: | spring 1 60 bar |
| | spring 2 120 bar |
| | spring 3 250 bar |

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|---|---|
| Maximum allowed Δp pressure between the inlet and outlet pressure | 150 bar |
| Max. flow | 90 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 | 3,73 Kg |
| Weight by-pass version | 6,56 Kg |

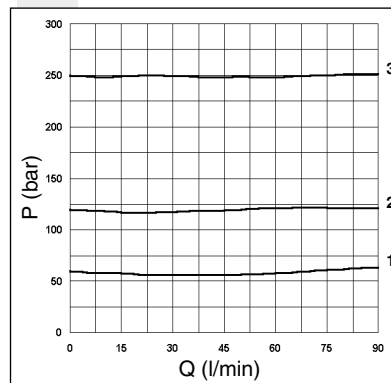
ORDERING CODE

| | |
|-----------|--|
| AM | Modular valve |
| 5 | CETOP 5/NG10 |
| 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 by-pass 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. |

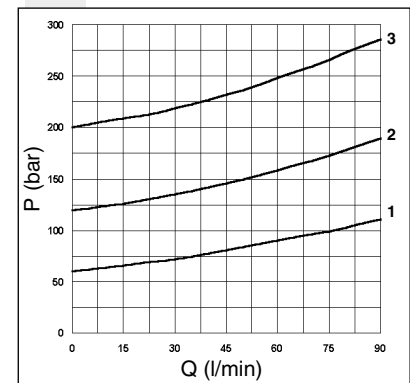
HYDRAULIC SYMBOLS



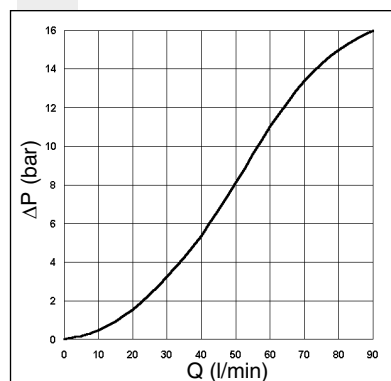
PRESSURE-FLOW RATE



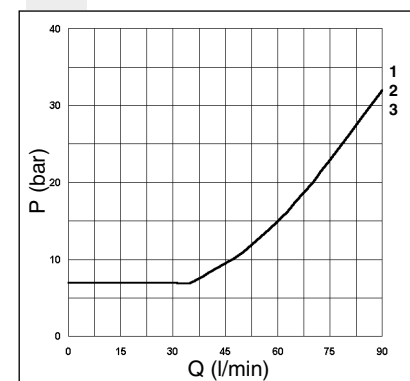
PRESSURE-FLOW OF RELIEVING



ΔP AM5VR... + BY-PASS



MINIMUM SETTING PRESSURE



To change valves AM5VRP... 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 department for other informations)

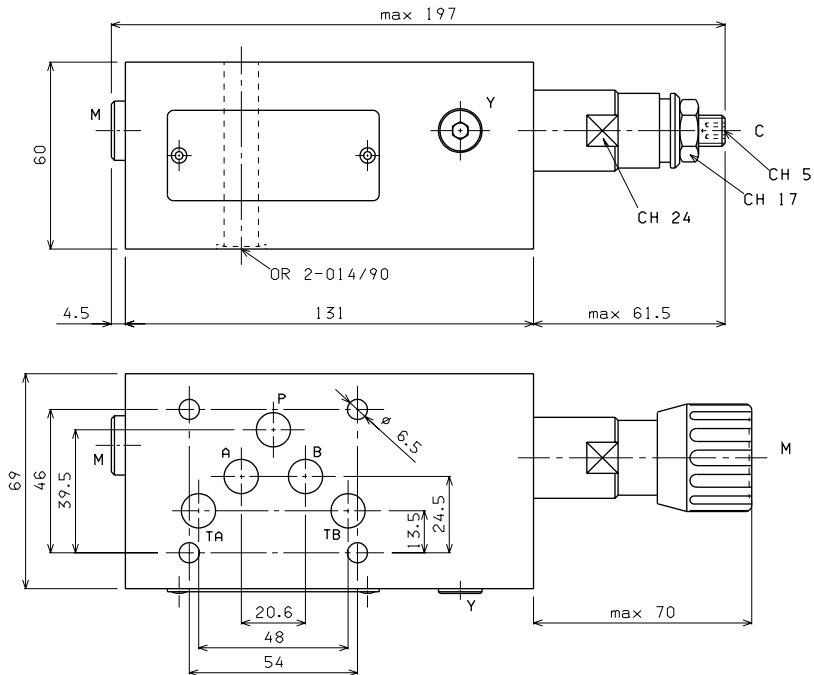
Curves n° 1 - 2 - 3 = setting ranges

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.

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OVERALL DIMENSIONS

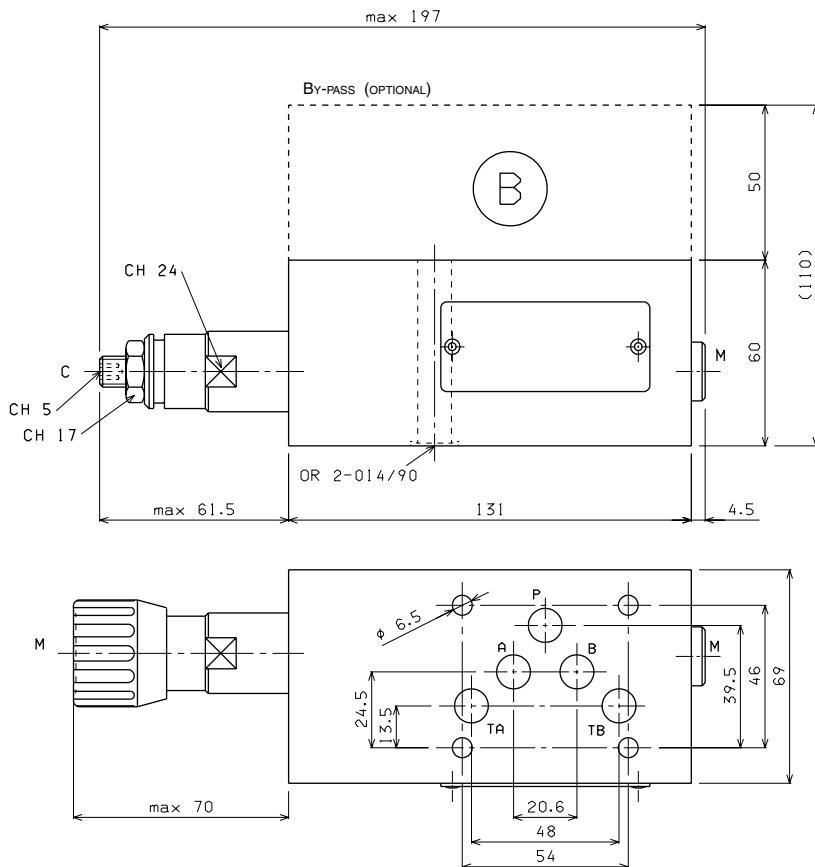
AM5VRP... / AM5VRD...



AM5VRA... + Bypass

(B) By-pass (optional)

Ordering code:
V89460000
(if ordered separately)



Type of adjustment

M Plastic knob

C Grub screw

Support plane
specifications

