V*P Pressure control valves plate
V*L Pressure control valves in line



V*P / V*L...	
V*P...	Sect. B 7
V*PE...	Sect. B 8
V*L...	Sect. B 9 - Sect. B 10
BSVMP...	Sect. B 11
KEC16/25...	Sect. B 9
C*P16/25...	Sect. B 9
CETOP 3/NG06	Sect. B 8
Standard spools for AD3E	Sect. B 10
AD3E...	Sect. B 11
AM3VM...	Sect. B 9

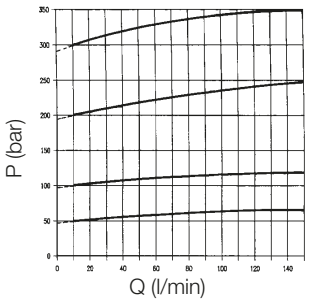
These pressure control valves are available in the basic VMP* maximum pressure, VSP* sequence and VUP* exclusion versions, with a single pressure value and three calibration ranges that cover the band 15 ÷ 400 bar. It is possible to use auxiliary pilot valves, which can be the simple standard AD3E solenoid valve, by the mere exchange of covers.

These valves have been fitted with an important safety feature for the operation of the system where they are used; a mechanical end of stroke stop prevents the operator from setting pressure values higher than those specified in the catalogue (it is impossible to compress the spring completely). In the standard configuration these valves are supplied with a 1.6 bar main spring and with calibrated ø1 mm pilot feed orifice (Variant part No. 00).

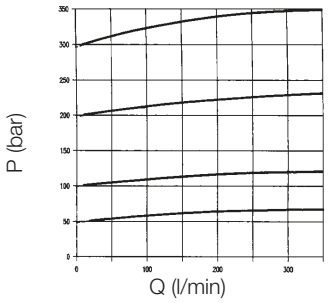
Pressure max.		400 bar
Setting ranges	Spring 1	15 ÷ 45 bar
	Spring 2	15 ÷ 145 bar
	Spring 3	45 ÷ 400 bar
Max. flow V*P16...		150 l/min
Max. flow V*P25...		350 l/min
Hydraulic fluids		Mineral oils DIN 51524
Fluid viscosity		10 ÷ 500 mm^2/s
Fluid temperature		-25°C ÷ 75°C
Ambient temperature		-25°C ÷ 60°C
Max. contamination level		class 10 in accordance with NAS 1638 with filter $ß_{25} \geq 75$
Drainage V*P16...		1 ÷ 2 l/min
Drainage V*P25...		1 ÷ 2.5 l/min
Dynamic pressure at drainage		Max. 2 bar
Weight V*P16... (without pilot valve)		3,3 Kg
Weight V*P25... (without pilot valve)		7,4 Kg
Weight V*L16... (without pilot valve)		4,6 Kg
Weight V*L161... (without pilot valve)		4,5 Kg
Weight V*L251... (without pilot valve)		7,7 Kg
Weight V*L25... (without pilot valve)		8,3 Kg

Subplate mounting valves are suitable for covers which do not conform to DIN standards type C*P16/25.. whilst in line mounting valves are suitable for DIN standards covers type KEC16/25...

Pressure - flow V*16



Pressure - flow V*P25

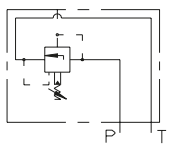
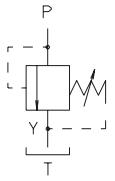
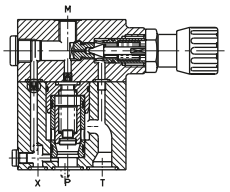
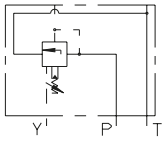
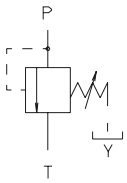
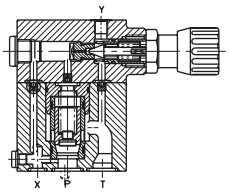
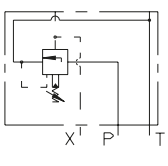
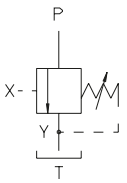
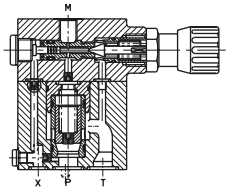


The fluid used is a mineral oil with viscosity of 46 mm^2/s at 40°C.
The tests were carried out at a fluid temperature 40°C.

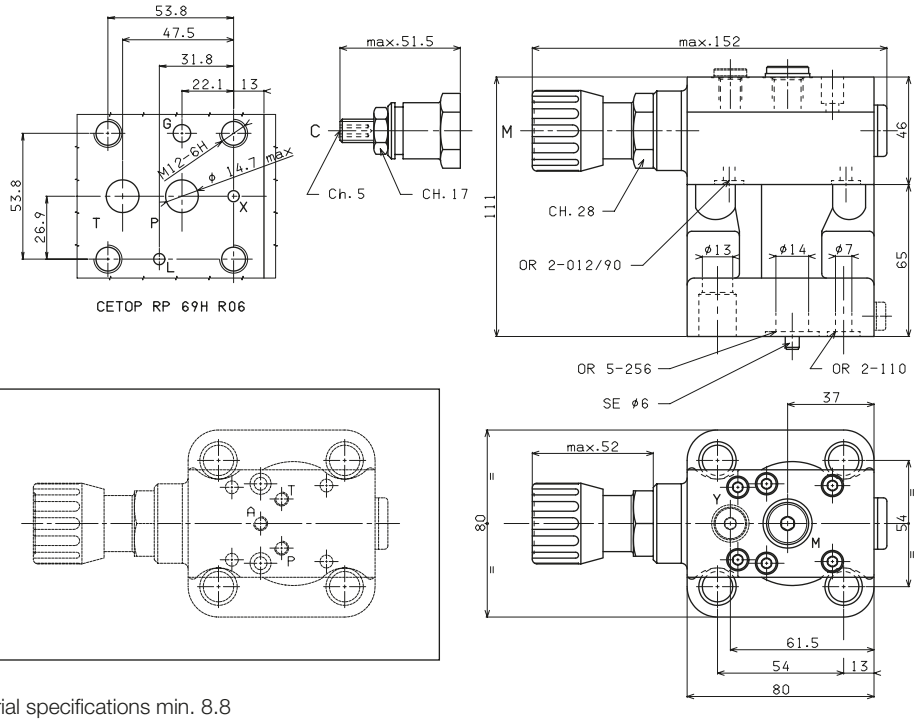
Ordering code

V	Valve
*	**M** = maximum pressure **S** = sequence **U** = exclusion (areas rep. 1,15 : 1)
*	**P** = Plate mounting **L** = In line mounting
*	**E** = Presetting for solenoid valve **Not for sequencing valve V.S.P...** (omit if not required)
***	Size (see overall dimensions) **16** - **25** = NG16 or NG25 **161 - 251** = for V.*.L... only (in line mounting valve)
*	Type of adjustment: **M** = Plastic knob **C** = Grub screw
*	Setting ranges **1** = 15 ÷ 45 bar **(white spring)** **2** = 15 ÷ 145 bar **(yellow spring)** **3** = 45 ÷ 400 bar **(green spring)**
**	**00** = No variant **V1** = FKM **AC** = Exclusion valve for accumulators (only for VU* , logic element areas rep. 12.5 : 1) **AQ** = Presetting for XP3
2	Serial No.

Hydraulic symbols

VMP16... VMP25**...** **Maximum pressure valve** Internal piloting and draining			
VSP16... VSP25**...** **Sequencing valve** Internal piloting External draining			
VUP16... VUP25**...** **Exclusion valve** External piloting Internal draining			

OVERALL DIMENSIONS V*P16...

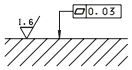


VERSION WITH PRESETTING FOR SOLENOID VALVE

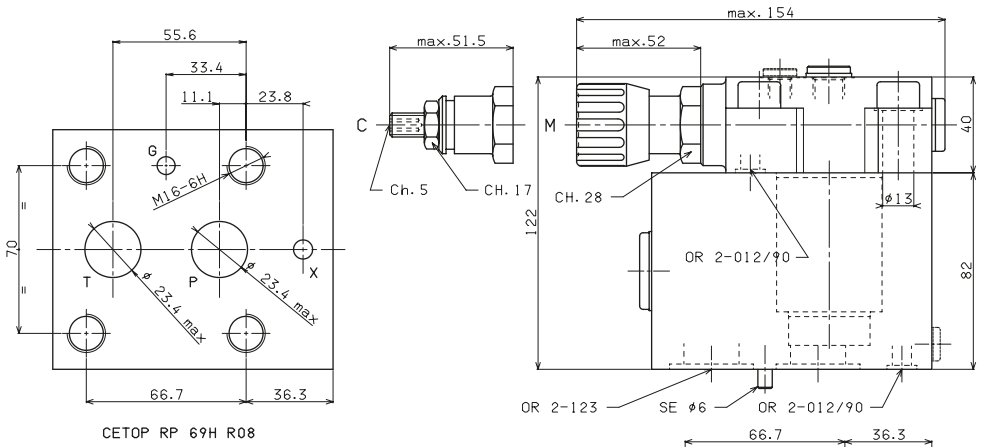
Fixing screws ISO 4762 M12x40 with material specifications min. 8.8
Tightening torque 70 Nm / 7 Kgm

M = 1/4" BSP connector for pressure gauge for maximum pressure valve version only
Y = 1/8" BSP external draining for sequencing valve version only

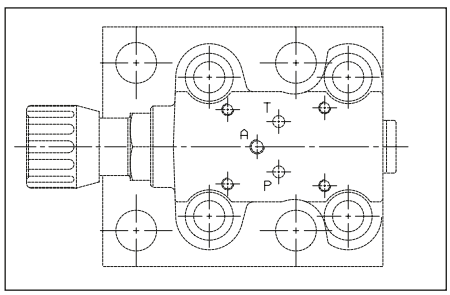
Support plane specifications

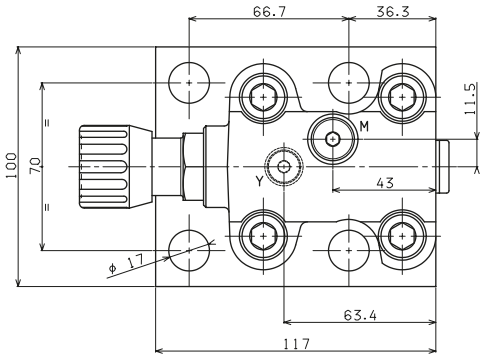


OVERALL DIMENSIONS V*P25...



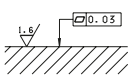
VERSION WITH PRESETTING FOR SOLENOID VALVE





Fixing screws ISO 4762 M16x100 with material specifications min. 8.8
Tightening torque 70 Nm / 7 Kgm
M = 1/4" BSP connector for pressure gauge for maximum pressure valve version only
Y = 1/8" BSP external draining for sequencing valve version only

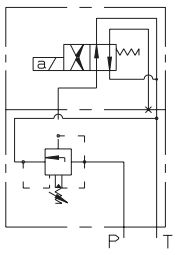
Support plane specifications

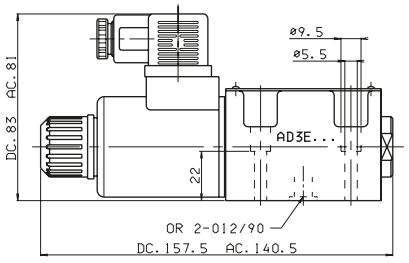


MOUNTING TYPE V*PE...

V*PE... + AD3E15E... OR AD3E16E...

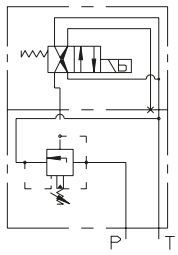
1) Solenoid de-energized, pump to tank.
2) Solenoid energized, circuit pressure controlled by valve on cover.
For mounting valves to have normally discharged configuration it is necessary to use an AD3E15F.. or AD3E16F... type solenoid valve, whilst for sub-plate mounting valves it is necessary to use type AD3E15E.. or AD3E16E.

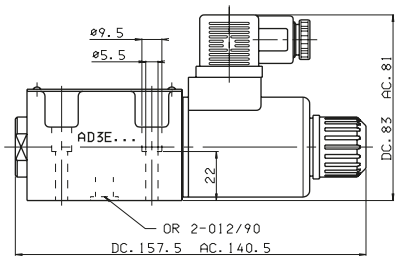




V*PE... + AD3E15F... OR AD3E16F...

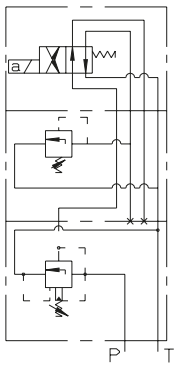
1) Solenoid de-energized, pump pressure controlled by valve on cover.
2) Solenoid B energized, pump to tank.

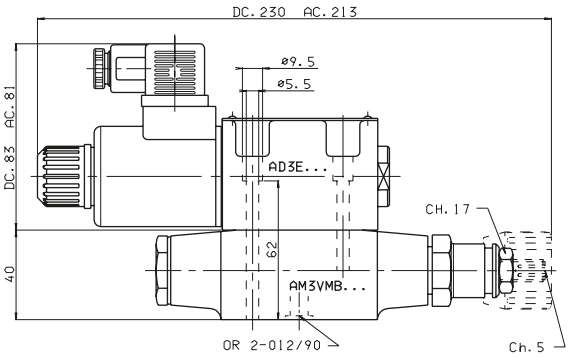




V*PE... + AM3VMB... + AD3E15E... OR AD316E...

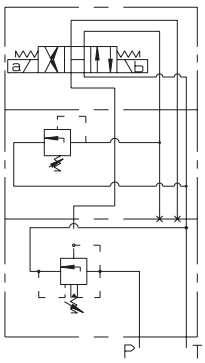
1) Solenoid de-energized, pump pressure controlled by valve on cover.
2) Solenoid energized, pump pressure controlled by valve AM3VMB.

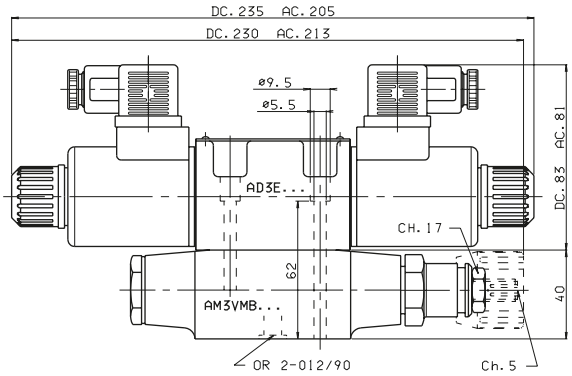




V*PE... + AM3VMB... + AD3E02C...

1) Solenoid de-energized, pump to tank.
2) Solenoid A energized, pump pressure controlled by valve AM3VMB.
3) Solenoid B energized, pump pressure controlled by valve on cover.





V*PE... + AM3VMAB... + AD3E01C...

1) Solenoid de-energized, pump pressure controlled by valve on cover.
2) Solenoid A energized, pump pressure controlled by valve AM3VMAB.
3) Solenoid B energized, pump pressure controlled by valve AM3VMAB.

