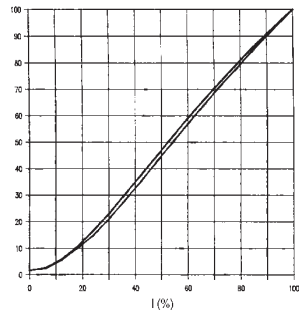
XP3... Proportional pressure control valves CETOP 3/NG6

Proportional maximum pressure valves type XP.3.*.. are used to regulate a hydraulic circuit pressure by means of a variable electric signal. Their precise implementation allows for high and constant operational standard up to a maximum 2,5 l/min flow rate. A manually pressure limit setting version is also available, to protect the system from uncontrolled electrical signals.

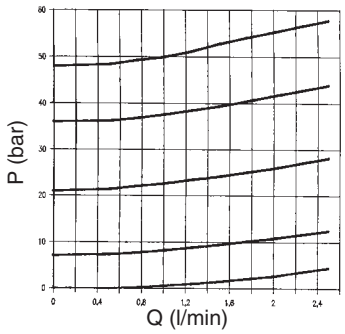
• Other valves (e.g. subplate or in-line mounted valves) should be ordered separately.

XP3...	
Standard connectors	Cap. I • 20
VMP / VML / VMPE	Cap. II • 6
REMSRA...	Cap. IX • 4

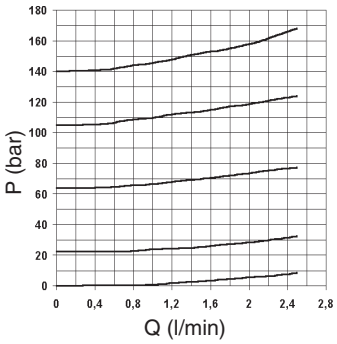
Pressure - Signal
(tested with Q = 1 l/min)



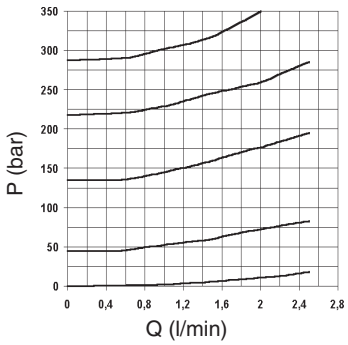
Pressure - Flow rate 1



Pressure - Flow rate 2



Pressure - Flow rate 3

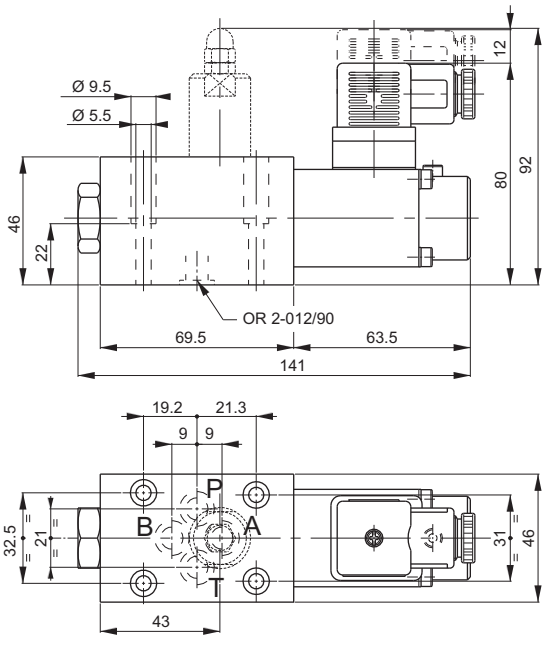


Ordering code

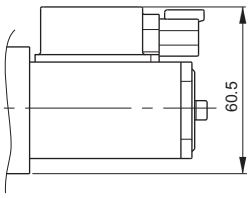
XP	Max. pressure valve
3	CETOP 3/NG6
*	**1** = max. 50 bar **2** = max. 140 bar **3** = max. 320 bar ← About pressure range 3 it's suggested to add a modular filter with 5µm cartridge
*	**E** = with manual limiter **S** = without manual limiter
*	Voltage: **F** =12V DC **G** =24V DC
**	Variant (*): **S1** =No variant **SV** =Viton **CZ** =Deutsch connection
1	Serial No.

(*) All variants are considered without connectors. The connectors must be order separately. See Ch. I Page 20

Overall dimensions

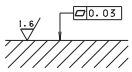


CZ Variant
Deutsch
connection DT04-2P



Fixing screws UNI 5931 M5x30
(min. 8.8 material screws are recommended)
Tightening torque 4 ÷ 5 Nm / 0.4 ÷ 0.5 Kgm

Support plane specifications



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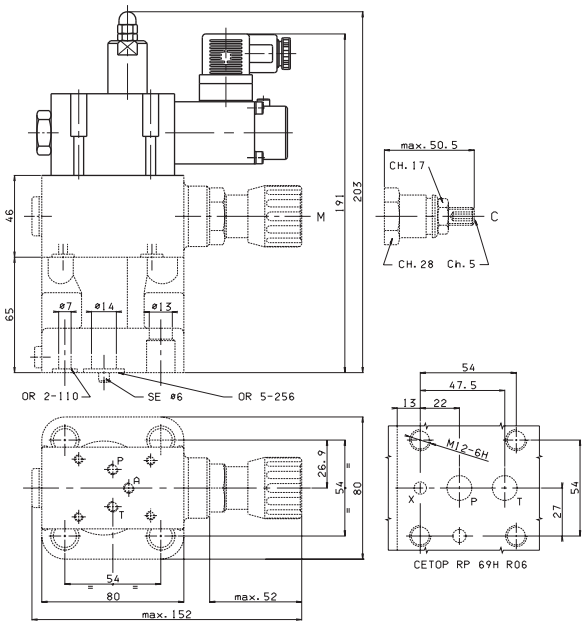
Max. operating pressure (depending on the flow rate)	350 bar
Max. flow	2,5 l/min
Max. ambient temperature	50° C
Linearity	See diagrams
Max. hysteresis	<3% of nominal value
Repeatibility error (between 150 and 680 mA)	<2%
Resistance at 20°C (24V)	24.6 Ohm
Resistance at 20°C (12V)	7.2 Ohm
Max. resistance (ambient 20°C) (24V) at op. temp.	31 Ohm
Max. resistance (ambient 20°C) (12V) at op. temp.	9 Ohm
Max. current at (24V)	0.68A
Max. current at (12V)	1.25A
Type of protection	IEC 144 class IP 65
Max. contamination level	class 8 in accordance with NAS 1638 with filter $ß_{10}≥75$
Fluid temperature	-20°C÷75°C
Fluid viscosity	10÷500 mm²/s
Weight	1,4 Kg

• Operating specifications are valid for fluids with 33 mm²/s at 50°C, using specified electronic control units.

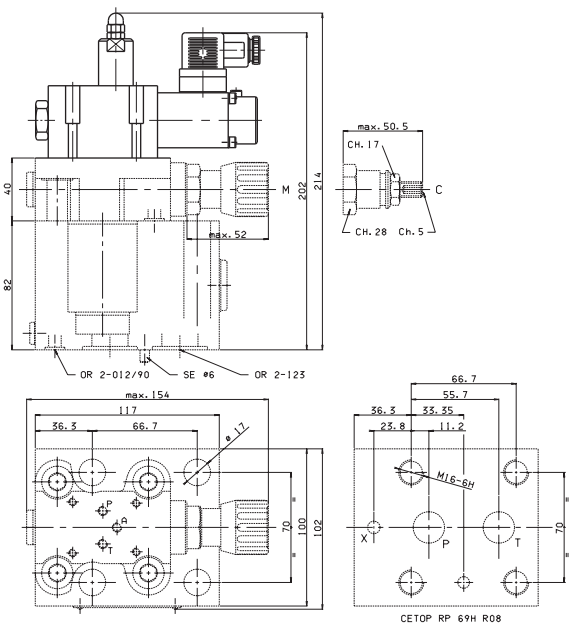
ELECTRONIC CONTROL UNITS

REMSRA**
Card type control for single solenoid 12V and 24V.
Recommended dither frequency 330 Hz.

TYPICAL INSTALLATION XP3... + VMPE16...



TYPICAL INSTALLATION XP3... + VMPE25...



WITH MOUNTING ON VMPE USE THE FOLLOWING CALIBRATED ORIFICES (SEE VMP*E VALVE AQ VARIANT)

VMPE16... **A = ∅ 1 mm**
B = ∅ 0,3 mm

VMPE25... **A = ∅ 1,2 mm**
B = ∅ 0,5 mm