XP.3... PROPORTIONAL PRESSURE CONTROL VALVES CETOP 3/NG6

ARON SpA

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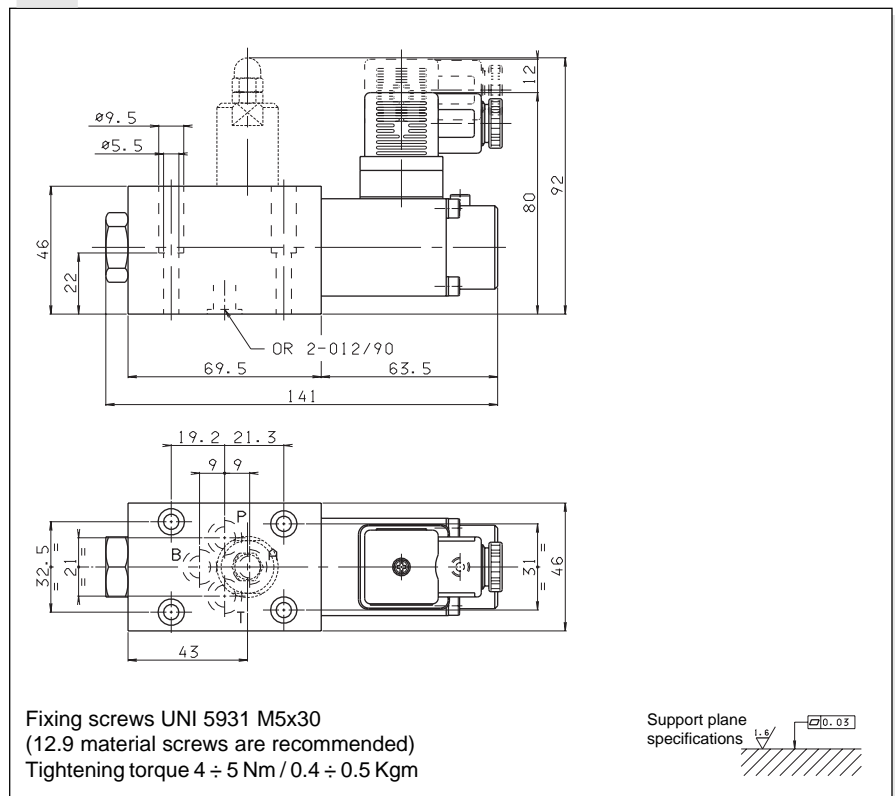
• Other valves (e.g. sub-plate or in-line mounted valves) should be ordered separately.

XP.3...	
REM.S.RA...	CH. IX PAGE 2
V.M.P... / V.M.L... / V.M.P.E...	CH. II PAGE 6

ORDERING CODE

XP	Max. pressure valve
3	CETOP 3/NG6
*	**1** = max.50 bar **2** = max.140 bar **3** = max.320 bar
*	**E** = with manual limiter **S** = with manual limiter
*	Voltages: **F** =12V DC **G** =24V DC
**	**00** =No variant **V1** =Viton
1	Serial No.

8

PRESSURE - SIGNAL
(tested with Q = 1 l/min)

PRESSURE - FLOW RATE 1

PRESSURE - FLOW RATE 2

PRESSURE - FLOW RATE 3

OVERALL DIMENSIONS

Fixing screws UNI 5931 M5x30
(12.9 material screws are recommended)
Tightening torque 4 ÷ 5 Nm / 0.4 ÷ 0.5 Kgm
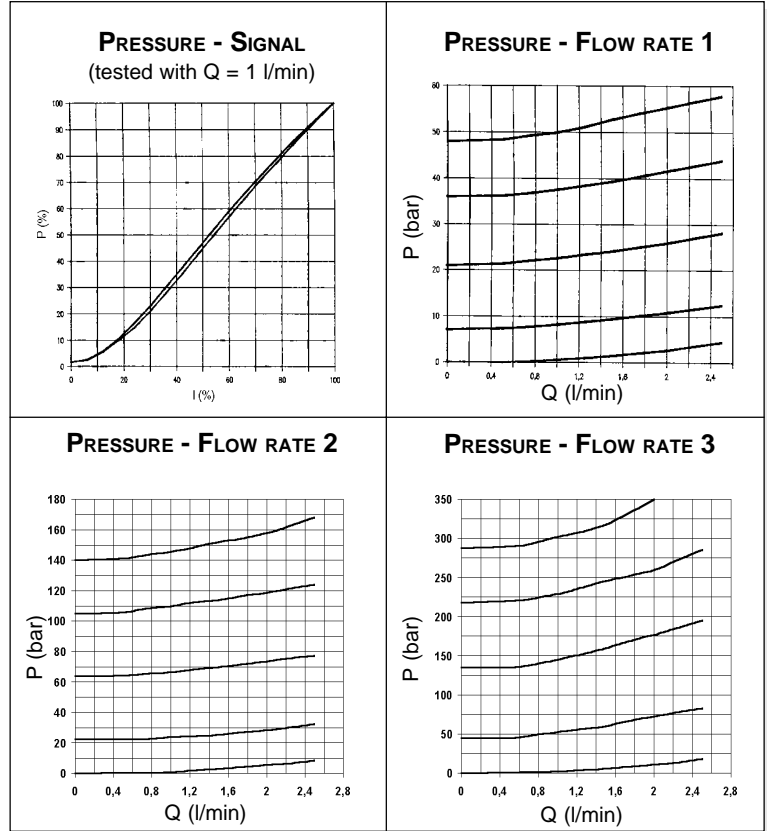
Support plane specifications

Max. operating pressure (depending on the flow rate)	320 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 $\beta_{10} \geq 75$
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 ARON electronic control units.**
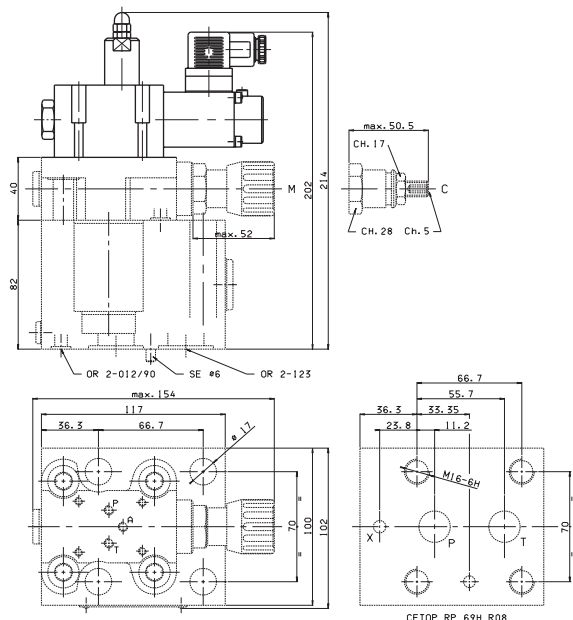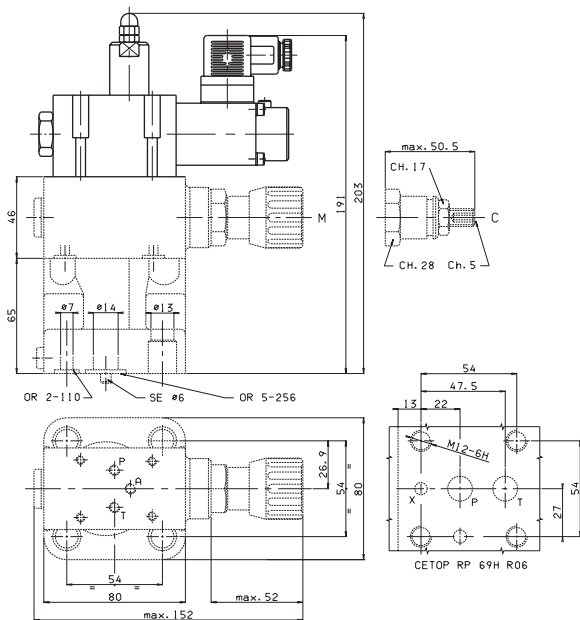
ELECTRONIC CONTROL UNITS

REM.S.RA.*.*.
Card type control for single solenoid 12V and 24V

TYPICAL INSTALLATION XP.3... + VMP.E.16...

TYPICAL INSTALLATION XP.3... + VMP.E.25...

• **WITH MOUNTING ON VMPE USE THE FOLLOWING CALIBRATED ORIFICES (SEE V.M.P.*.E VALVE AQ VARIANT)**

VMP.E.16... A = ∅ 1 mm
B = ∅ 0,3 mm

VMP.E.25... A = ∅ 1,2 mm
B = ∅ 0,5 mm

8