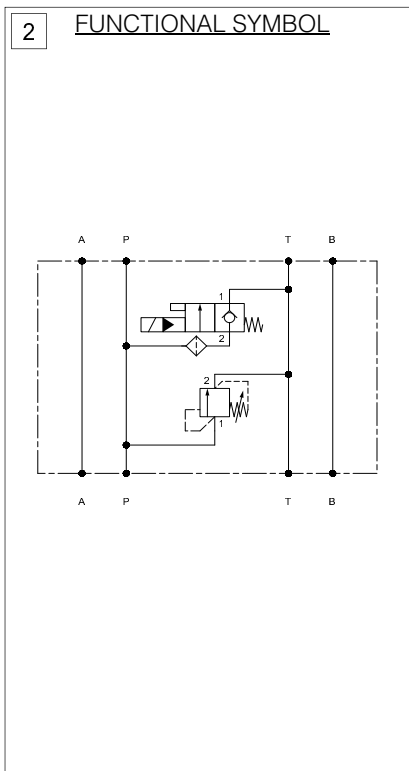
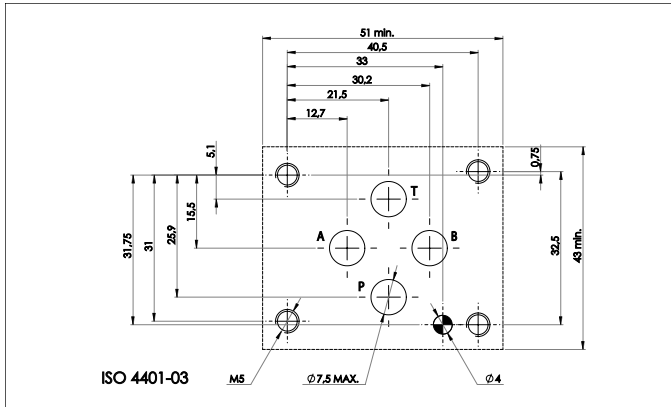


**STACKABLE VALVE CETOP 03
RELIEF VALVE AND BYPASS
TYPE AM3-M*EV*-***

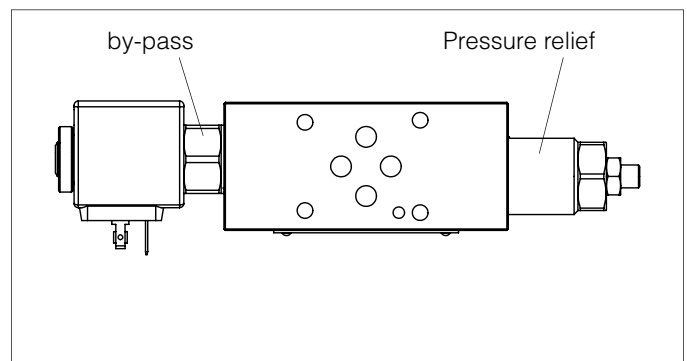


1 HOW TO READ THE MODEL CODE FOR AM3-M*EV

①	②	③	④	⑤	⑥	⑦							
AM3 -	(MO)	EV(C)	*	(024C)	(-) / (-)	(-)							
<table border="0"> <tr> <td style="vertical-align: top;"> <p>① AM3 : stackable valve CETOP 03 - Pressure 32 MPa (320 bar)</p> <p>② (MO) : pressure relief valve</p> <p style="padding-left: 20px;">MO : Pressure relief valve direct operated</p> <p style="padding-left: 20px;">MP : Pressure relief valve pilot operated</p> <p>③ EV(C) : bypass valve pilot operated</p> <p style="padding-left: 20px;">EVC : bypass valve normally closed</p> <p style="padding-left: 20px;">EVO : bypass valve normally open</p> <p>④ (*) : Code reserved for options and variants</p> <p style="padding-left: 20px;">04 : emergency push button</p> <p>⑤ (024C) : Electric voltage and solenoid coils</p> <p style="padding-left: 20px;">012C : coil(s) for V12DC</p> <p style="padding-left: 20px;">024C : coil(s) for V24DC</p> <p style="padding-left: 20px;">220R : coil(s) for V220-230 RAC</p> <p style="padding-left: 20px;">230/50 : coil(s) for V230/50 AC</p> <p>⑥ - : Coil connection</p> <p style="padding-left: 20px;">- : DIN 43650-A ISO 4400</p> <p style="padding-left: 20px;">AMP : Amp Junior Timer</p> <p>⑦ - : Design number (progressive) of the valves.</p> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							<p>① AM3 : stackable valve CETOP 03 - Pressure 32 MPa (320 bar)</p> <p>② (MO) : pressure relief valve</p> <p style="padding-left: 20px;">MO : Pressure relief valve direct operated</p> <p style="padding-left: 20px;">MP : Pressure relief valve pilot operated</p> <p>③ EV(C) : bypass valve pilot operated</p> <p style="padding-left: 20px;">EVC : bypass valve normally closed</p> <p style="padding-left: 20px;">EVO : bypass valve normally open</p> <p>④ (*) : Code reserved for options and variants</p> <p style="padding-left: 20px;">04 : emergency push button</p> <p>⑤ (024C) : Electric voltage and solenoid coils</p> <p style="padding-left: 20px;">012C : coil(s) for V12DC</p> <p style="padding-left: 20px;">024C : coil(s) for V24DC</p> <p style="padding-left: 20px;">220R : coil(s) for V220-230 RAC</p> <p style="padding-left: 20px;">230/50 : coil(s) for V230/50 AC</p> <p>⑥ - : Coil connection</p> <p style="padding-left: 20px;">- : DIN 43650-A ISO 4400</p> <p style="padding-left: 20px;">AMP : Amp Junior Timer</p> <p>⑦ - : Design number (progressive) of the valves.</p>						
<p>① AM3 : stackable valve CETOP 03 - Pressure 32 MPa (320 bar)</p> <p>② (MO) : pressure relief valve</p> <p style="padding-left: 20px;">MO : Pressure relief valve direct operated</p> <p style="padding-left: 20px;">MP : Pressure relief valve pilot operated</p> <p>③ EV(C) : bypass valve pilot operated</p> <p style="padding-left: 20px;">EVC : bypass valve normally closed</p> <p style="padding-left: 20px;">EVO : bypass valve normally open</p> <p>④ (*) : Code reserved for options and variants</p> <p style="padding-left: 20px;">04 : emergency push button</p> <p>⑤ (024C) : Electric voltage and solenoid coils</p> <p style="padding-left: 20px;">012C : coil(s) for V12DC</p> <p style="padding-left: 20px;">024C : coil(s) for V24DC</p> <p style="padding-left: 20px;">220R : coil(s) for V220-230 RAC</p> <p style="padding-left: 20px;">230/50 : coil(s) for V230/50 AC</p> <p>⑥ - : Coil connection</p> <p style="padding-left: 20px;">- : DIN 43650-A ISO 4400</p> <p style="padding-left: 20px;">AMP : Amp Junior Timer</p> <p>⑦ - : Design number (progressive) of the valves.</p>													

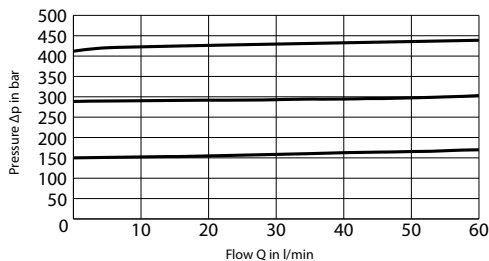
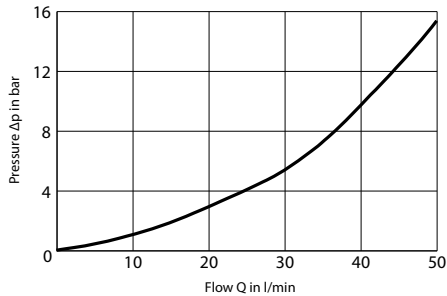
3 DESCRIPTION

The module acts as relief valve and solenoid by-pass valve with high performances and full cetop 03 flows. The Pressure relief valve is a 7/8" 14 UNF valve direct operated. Optionally can be installed the pilot operated relief valve which assure a constant behavior at different flow rates. The by-pass valve is a special 3/4" 16 UNF valve with bigger nose, able to manage 50 l/min with low pressure drops.



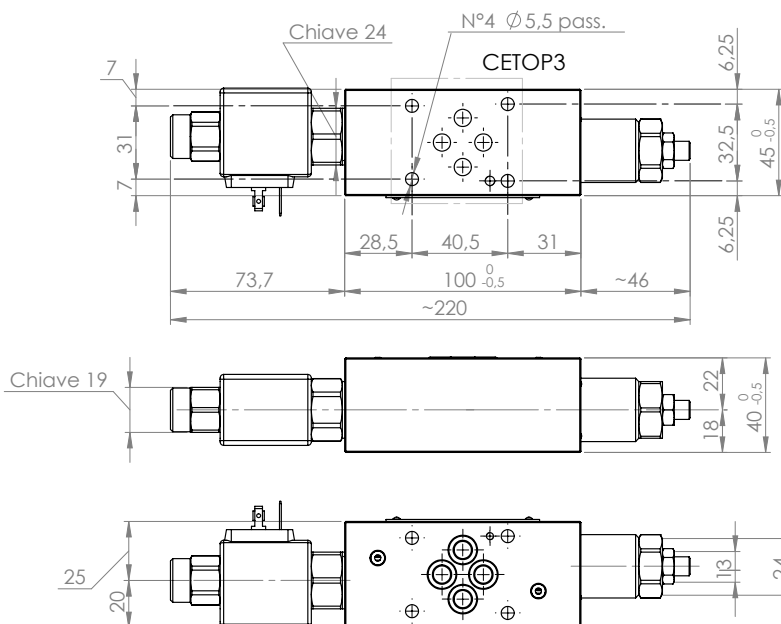
4 TYPICAL DIAGRAMS

Typical P-Q curves for valves AM3-M*EV in standard configuration, with mineral oil at $v=32 \text{ mm}^2/\text{s}$ and at $T=40^\circ\text{C}$.



7 INSTALLATION DIMENSIONS

(dimensions are mm)



5 TECHNICAL DATA

Nominal flow	50 l/min
Maximum rec. flow rate see	60 l/Min
Maximum nominal pressure (P, A, B)	32 MPa (320 bar)
Pressure drops	see 4
Electric characteristics	see 6
Protection to DIN 40050	IP 65
Duty cycle	100%
Dimensions	see 7
Installation	see 8
Valve Body	Steel
Mass	1,5 kg

6 ELECTRIC CHARACTERISTICS

Valve type AM3-M*EV are operated by solenoid that are energized :

- directly from a D.C. voltage supply
V 12 DC = 012C
V 24 DC = 024C
- by the use of coils that incorporate a full wave bridge rectifier, from A.C. voltage supply : V 220/50 - V 230/60 = 230/50

All connectors must conform to ISO 4400 (DIN 43650) and electric circuitry must be able to carry the following rated current values :
V 12 DC = 1,5 A
V 24 DC = 0,8 A V 230/50 = 0,14 A
Permissible supply voltage variation : $\pm 10 \%$

8 INSTALLATION

When assembled to its mounting plate, valve AM3-M*EV must be fastened with 4 bolts M5x45 (or M5x** according to the number of modules) tightened at 8 Nm torque. Leakage between valve and mounting surface is prevented by the positive compression on their seats of 4 seals of O-Ring type 2037.

9 HYDRAULIC FLUID

Seals and materials used on standard valves AM3-* are fully compatible with hydraulics fluids of mineral base, upgraded with antifoaming and anti oxidizing agents. The hydraulic fluid must be kept clean and filtered to ISO 4406 class 19/17/14, or better, and used in a recommended viscosity range from 10 cSt to 60 cSt.