



## 3 TECHNICAL DATA

Nominal flow	50 l/min	<b>Electric characters:</b> Valve type PMO*.78 are operated by solenoid that are energized from a D.C. voltage supply: V 12 DC = 012C V 24 DC = 024C With an appropriate electrical driver in order to control the input current at the valve Coils have an integrated quenching diode and their characteristics are: V 12 DC - limit current 1,0 A - 6,5 Ohm V 24 DC - limit current 0,6 A - 20,8 Ohm
Maximum rec. flow rate	50 l/min	
Maximum nominal pressure	35 MPa (350 bar)	
Optimal dither control	250 Hz	
Valve Hysteresis	<5 %	
Protection	IP 67	
Duty cycle	100%	
Installation and dimension	(see [5])	
Valve Body	Steel	
Mass	0,58 kg	
Note: pressure in T line influences valve performances		

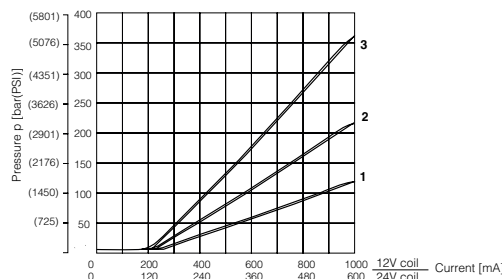
## 4 TYPICAL DIAGRAMS

Typical P-Q curves for valves PMO\*.78 in standard configuration, with mineral oil at  $v=32 \text{ mm}^2/\text{s}$  and at  $T=40^\circ\text{C}$ .

### p-I Chart

Measured at  $v = 32 \text{ mm}^2/\text{s}$  (156 SUS)

$p = f(I)$ ,  $Q = 5 \text{ L/min}$  (1.321 GPM)



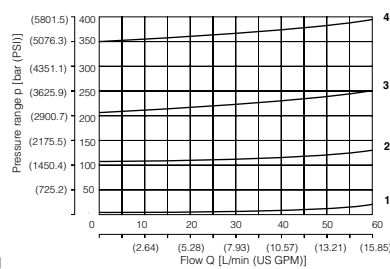
3	Pressure range 35
2	Pressure range 21
1	Pressure range 12

#### Attention:

The proportional pressure relief valve is not mechanically protected and it does not perform the relief valve function.

### p-Q Chart

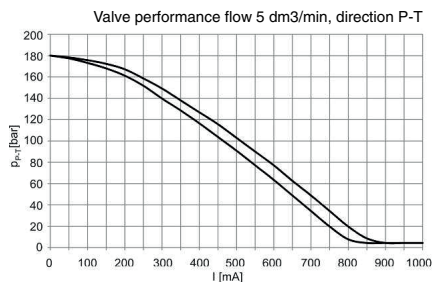
Measured at  $v = 32 \text{ mm}^2/\text{s}$  (156 SUS)



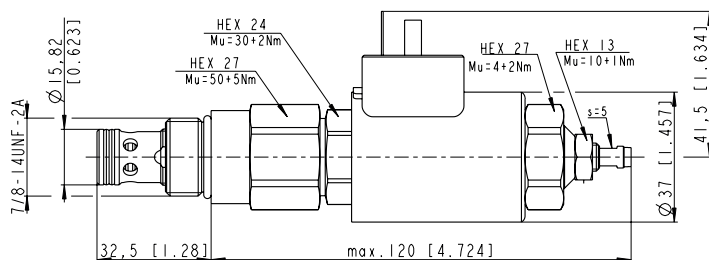
4	Pressure range 35
3	Pressure range 21
2	Pressure range 12
1	Min. pressure (range 35)

### PMOP.78 pressure setting

p-I Characteristics



## 5 INSTALLATION DIMENSIONS (mm)



## 6 HYDRAULIC FLUIDS

Seals and materials used on standard valves PMO\*.78 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.