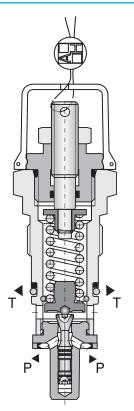
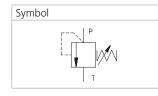


## Pressure Relief Valve, PED Certified, Poppet Type, Direct Acting

# VPP2-06-SV/xx-CE1017 M28x1.5 • Q<sub>max</sub> 50 l/min (13 GPM) • p<sub>max</sub> 320 bar (4600 PSI)





Relief pressure related to flow rate

## **Technical Features**

- Hydraulic safety relief valve suitable for use as a safety device in Category IV Group 2 applications acc.to European Commission (EC) Pressure Equipment Directive (PED) 2014/68/EU
  - CE marked valves are supplied with "Declaration of Conformity", "Operating Instructions" and the list of residual risks
- > Always follow the operating instructions supplied with the valve
- > Excellent stability throughout flow range with rapid response to dynamic pressure changes
- > Low hysteresis, accurate pressure control and low pressure drop through CFD optimized flow paths
- > Wide pressure range up to 320 bar
- > Hardened precision parts
- > Sharp-edged steel seats for dirt-tolerant performance
- > Leak-free closing, suitable for fast cycling with long life
- In the standard version, the valve is black oxide coated

#### **Functional Description**

A poppet type, direct acting hydraulic relief valve in the form of a screw-in cartridge intended for use as a pressure limiting device for common hydraulic circuit protection. The spring acts on the poppet and presses it onto the valve seat. If the hydraulic pressure is below the pre-set value, the valve is closed. If the hydraulic force exceeds the pre-set value the valve opens and flow passes to the tank port until the system pressure falls below the spring pre-set value and the valve closes again.

Technical Data		
Valve size / Cartridge cavity		M28x1.5 / QP2
Max. flow	l/min (GPM)	50 (13.2)
Max. operating pressure	bar (PSI)	320 (4640)
Fluid temperature range (NB	R) °C (°F)	-30+100 (-22 212)
Fluid temperature range (FPN	Л) °С (°F)	-20+120 (-4 248)
Viscosity range	mm <sup>2</sup> /s (SUS)	10 500 (49 2450)
Mass	kg (lbs)	0.4 (0.88)
	Datasheet	Туре
General information	GI_0060	Product and operating conditions
Valve bodies In-line me	ounted SB_0018	SB-QP2*
Cavity details	SMT_0019	SMT-QP2*
Spare parts	SP_8010	

## **Characteristics** measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

#### Pressure range 2.5 Pressure range 6.3 Pressure range 10 (580) ] 40 (2320) (1160) ] 80 Pressure p [bar (PSI)] (1740) (435) 120 30 (870) 60 (1160) (290) (580) 20 80 //0 (580) 40 (145) 10 (290) 20 0 10 20 30 0 30 40 10 20 30 40 50 10 20 0 40 50 (2.6) (5.3) (8.0)(10.6)(13.2) (2.6)(5.3)(8.0) (10.6) (2.6)(5.3) (8.0) (10.6) (13.2) Pressure range 25 Pressure range 32 Pressure range 16 (4640) (4640) ] 320 (4640) ] 320 320 Pressure p [bar (PSI)] (4060) 280 (4060) 280 (4060) 280 (3480) 240 (3480) (3480) 240 240 (2900) 200 (2900) 200 (2900) 200 (2320) 160 (2320) 160 (2320) 160 (1740) 120 (1740) 120 (1740) 120 (1160) (1160) (1160) 80 80 80 (580) 40 (580) 40 (580) 40 10 30 40 10 40 50 10 20 30 40 50 20 50 20 30 (10.6) (13.2) (10.6) (13.2) (2.6)(5.3)(7.9) (2.6)(5.3)(7.9) (2.6)(5.3)(7.9) (10.6) (13.2) Flow Q [l/min (GPM)] Flow Q [l/min (GPM)] Flow Q [l/min (GPM)]

Valves Adjusted by the Manufacturer

- > The valves are adjusted for the specified pressure at the relevant flow rate and they are fitted with tamper-indicating seals
- > The pressure and flow rate values are indicated in the valve description on the product [pressure: in bar, flow rate in l/min]
- The seals bear the company logo



### Valves NOT Adjusted by the Manufacturer

- Valves have no tamper-indicating seals
- > No pressure and no flow rate indicated
- > After the completion of the functional test, the adjusting screw is completely loosened and the pressure is set to p = 0 bar
- To adjust the required valve pressure proceed as follows:
  turn the adjusting screw to the right (clockwise) to increase the pressure
- turn the adjusting screw to the left (counter-clockwise) to decrease the pressure
- > The manufacturer accepts no responsibility for the adjustment, securing, and sealing of the valve

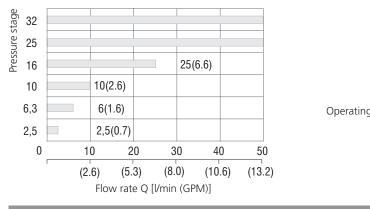
#### **Residual Risks**

Residual risks are listed and preventive measures against the occurrence of residual risk are described in the document "Operating instructions for pressure relief valve VPP2-06-SV/xx-CE1017" which is delivered with each valve.

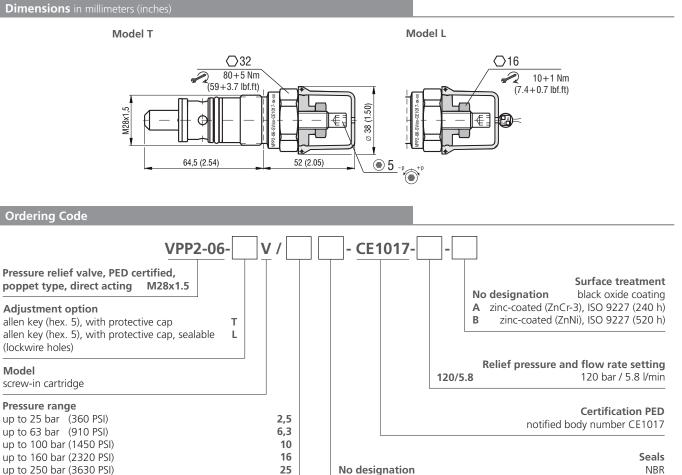
#### **Operating Region**

The diagram shows the operating region where the valve meets the requirements of Directive 2014/68/EU and Standard ISO 4126-1 on maximum short-time overshoot of system pressure by 10 % above the set cracking pressure when the valve opens. The dynamics of the valve depend on the kinematic viscosity of working fluid.

Measurement conditions: oil Renolin VG 32, T = 40 °C (104 °F), V = 0.5 I (0.132 gal US)



Operating region characteristics from certification of VPP2-06\*CE\*



32

V

FPM (Viton)

If not preset valves are ordered, pressure and flow rate information is not shown.

up to 320 bar (4600 PSI)