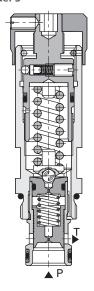
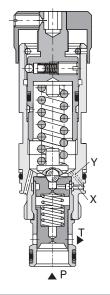
**VPN1-06/S** 

M22 x 1.5 • Q<sub>max</sub> 70 l/min (18.5 GPM) • p<sub>max</sub> 320 bar (4600 PSI)

#### Model S



### Model SX (SY)



# **Technical Features**

- > Excellent stability throughout flow range with rapid response to dynamic pressure changes
- > Low hysteresis, accurate pressure control and low pressure drop
- > Wide pressure range up to 320 bar
- > High flow capacity
- > Hardened precision parts
- > Ideal for use as control valve where accuracy and repeatability is required
- > External pilot and drain option
- > Adjustable by allen key or hand screw, optionally sealable (lockwire holes)
- > In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

### **Functional Description**

A pilot operated, spool type hydraulic relief valve in the form of a screw-in cartridge intended for use as a pressure limiting device. Fast-acting with low hysteresis. Because of the absence of any internal seals, the valve shows excellent reseating and repeatability characteristics. It may be used as a main pressure control element but due to its two stage design it is not recommended for safety applications where operating speed is critical. Version SX has an external pilot line, version SY allows a separate drain connection.

Model	S	SX	SY
Symbol		PX	

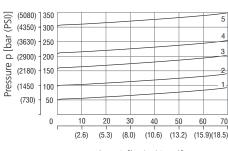
## **Technical Data**

Valve size / Cartridge cavity			M22 x 1.5 / QG2	M22 x 1.5 / QF2
Model			S	SX, SY
Max. flow		l/min (GPM)	70 (18.5)	
Max. operating pressure		bar (PSI)	320 (4640)	
Fluid temperature range (NBR)		°C (°F)	-30 +100 (-22 212)	
Fluid temperature range (FPM)		°C (°F)	-20 +120 (-4 248)	
Weight		kg (lbs)	0.25 (0.55)	
		Datasheet	Туре	
General information		GI_0060	Products and operating conditions	
Valve bodies	In-line mounted	SB_0018	SB-QG2*	-
	Sandwich mounted	SB-04(06)_0028	SB-*QG2*	-
Cavity details		SMT_0019	SMT-QG2*	SMT-QF2*
Spare parts		SP_8010		

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

### Relief pressure related to flow rate

# Model S, SX

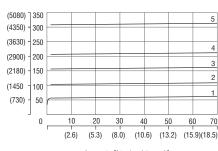


Flow Q [l/min (GPM)]

	Pressure range	
5	32	
4	21	
3	16	
2	10	
1	6	

## Relief pressure related to flow rate

# Model SY

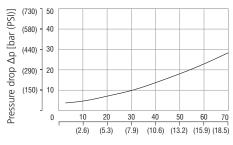


Flow Q [l/min (GPM)]

	Pressure range	
5	32	
4	21	
3	16	
2	10	
1	6	

# Minimum set and circulation pressure

Model S, SX, SY

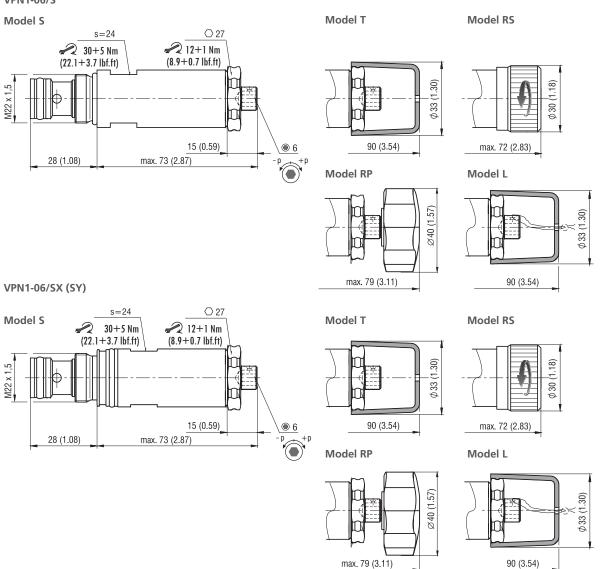


Flow Q [l/min (GPM)]

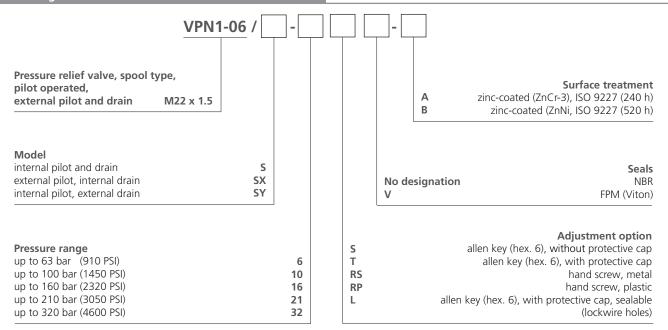
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### VPN1-06/S



# **Ordering Code**



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