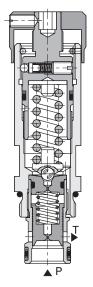
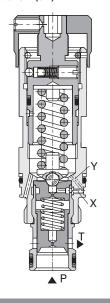
VPN1-06/S

M22 x 1.5 • Q_{max} 70 l/min (18.5 GPM) • p_{max} 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

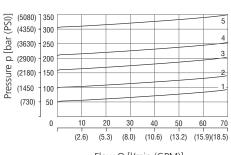
| Valve size / Cartridge cavity | | M22 x 1.5 / QG2 | M22 x 1.5 / RD3 |
|-------------------------------|--|-------------------|-----------------|
| Model | | S | SX, SY |
| Max. flow | l/min (GPM) | 70 (18.5) | |
| Max. operating pressure | bar (PSI) | 320 (4640) | |
| Fluid temperature range (NBR) | erature range (NBR) °C (°F) -30 +100 (-22 212) | |) (-22 212) |
| Fluid temperature range (FPM) | °C (°F) | -20 +120 (-4 248) | |
| Mass | 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-RD3* |
| 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

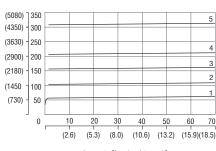


Flow Q [l/min (GPM)]

| Pressure range |
|----------------|
| 32 |
| 21 |
| 16 |
| 10 |
| 6 |
| |

Relief pressure related to flow rate

Model SY

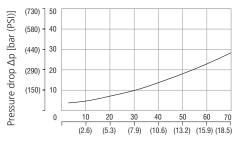


Flow Q [l/min (GPM)]

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

Minimum set and circulation pressure

Model S, SX, SY

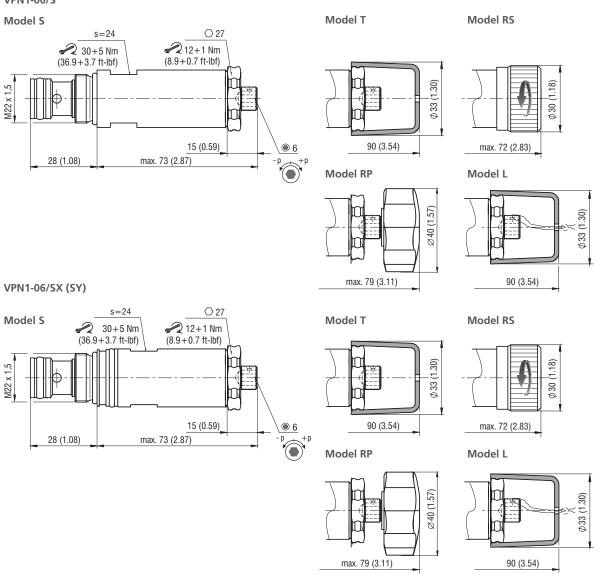


Flow Q [I/min (GPM)]

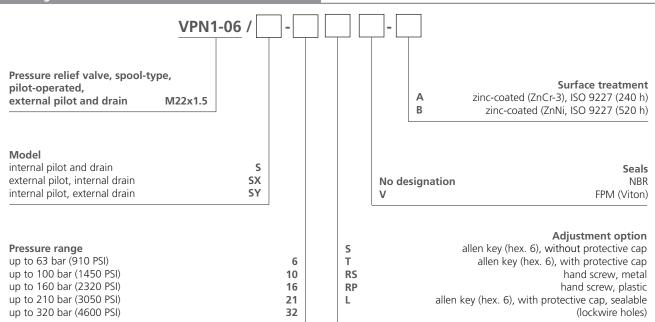
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VPN1-06/S



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