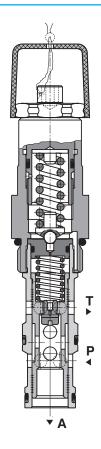
VRN2-10/S

M27 x 2 • Q_{max} 150 l/min (40 GPM) • p_{max} 320 bar (4600 PSI)



Technical Features

- > Excellent stability throughout flow range with rapid response to dynamic pressure changes
- > Low hysteresis, accurate pressure control and low pressure drop
- > Reverse relief protection
- > Wide pressure range up to 320 bar
- > High flow capacity
- > Hardened precision parts
- 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. Enhanced surface protection for mobile sector available for the steel parts (ISO 9227, 520 h salt spray)

Functional Description

This 3 way pilot operated pressure reducing valve is designed to reduce the system pressure at consumer port. Due to its 3 way design the valve provideds reverse relief protection of the secondary circuit to the tank port. The pressure can be set by an adjustment screw (by allen wrench or by hand) and the valve is optionally equipped with lockwire holes for sealing.



Technical Data

| Valve size / Cartridge cavity | | M27 x 2 / K3 |
|-------------------------------|-------------|-----------------------------------|
| Max. flow | l/min (GPM) | 150 (39.6) |
| Max. control flow | l/min (GPM) | 0.65 (0.17) |
| Max. operating pressure | bar (PSI) | 320 (4640) |
| Max. pressure (port T) | bar (PSI) | 160 (2320) |
| Fluid temperature range (NBR) | °C (°F) | -30 +100 (-22 212) |
| Fluid temperature range (FPM) | °C (°F) | -20 +120 (-4 248) |
| Weight | kg (lbs) | 0.35 (0.77) |
| | Datasheet | Туре |
| General information | GI_0060 | Products and operating conditions |
| Valve bodies In-line mounted | SB_0018 | SB-K3* |
| Cavity details | SMT_0029 | SMT-K3* |
| Spare parts | SP_8010 | |

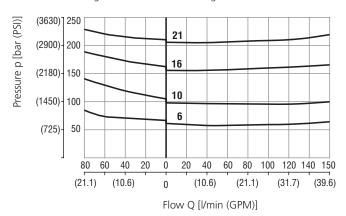


The volume flow, which is needed for control of output pressure and maintaining the adjusted value of reducing pressure, flows permanently through the pilot stage of valve.

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

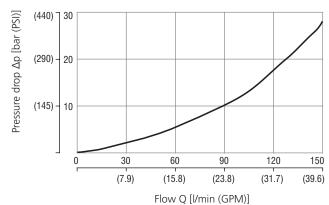
Reducing - relieving pressure related to flow rate

Relieving function A-T / Reducing function P-A



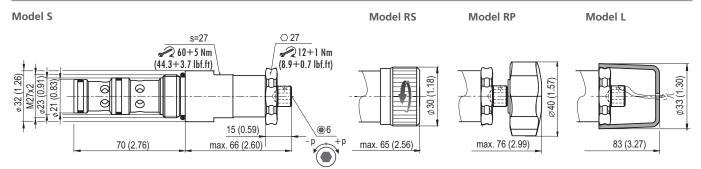
Pressure drop related to flow rate

Flow direction P-A Fully open valve cross section

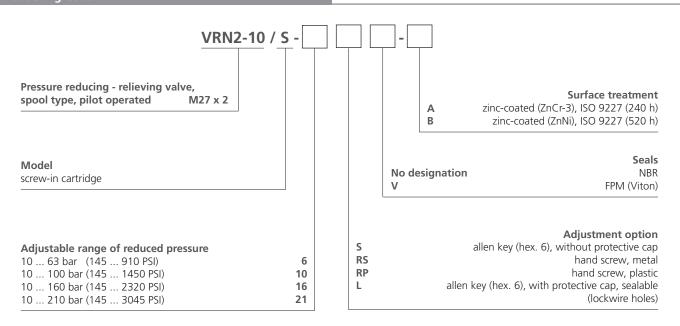


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