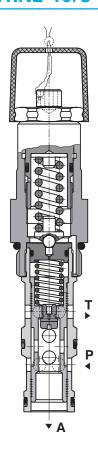
VRN2-10/S

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

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	

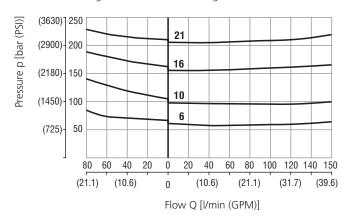


The volume flow, which is needed for control of output pressure and maintaining the adjusted value of reducing pressure, flows permanently through the pilot stage of valve.

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

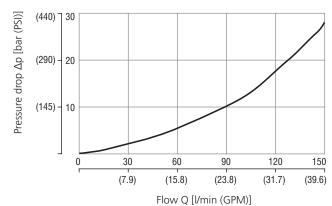
Reducing - relieving pressure related to flow rate

Relieving function A-T / Reducing function P-A



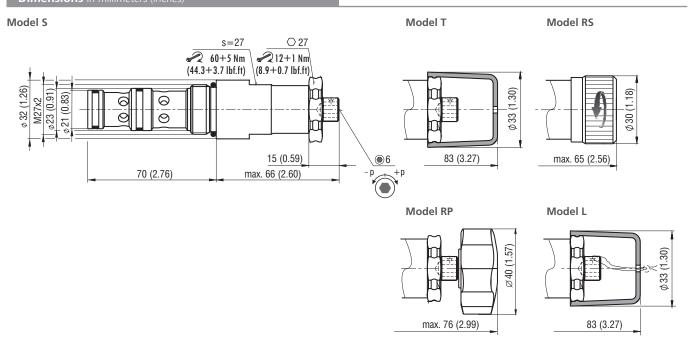
Pressure drop related to flow rate

Flow direction P-A Fully open valve cross section

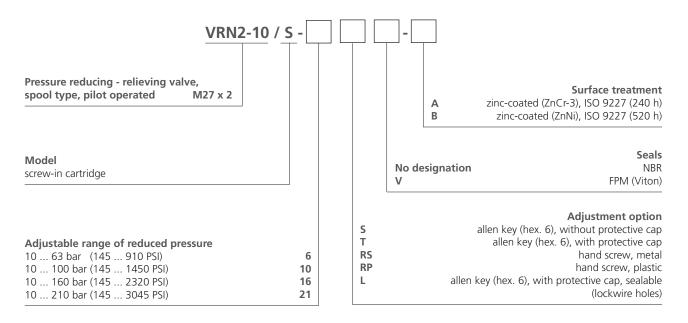


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