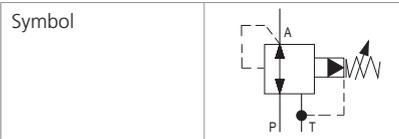


**Technical Features**

- › 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 provides 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		M27x2 / 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 (4600)
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		Type
General information		HA 0060 Products and operating conditions
Valve bodies	In-line mounted	HA 0018 SB-K3*
Cavity details		HA 0029 SMT-K3*
Spare parts		HA 8010

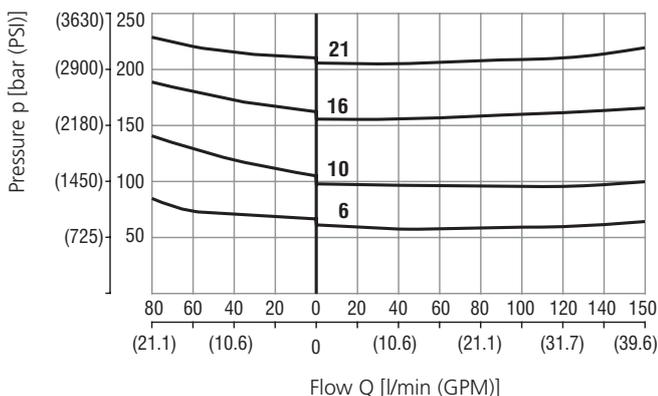


The volume flow, which is needed for control of output pressure and maintaining the adjusted value of reducing pressure, flows permanently through the pilot stage of valve.

**Characteristics** measured at v = 32 mm<sup>2</sup>/s (156 SUS)

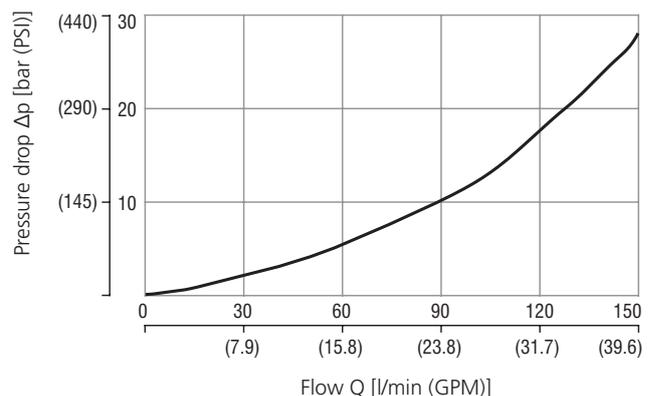
**Reducing - relieving pressure related to flow rate**

Relieving function A-T / Reducing function P-A



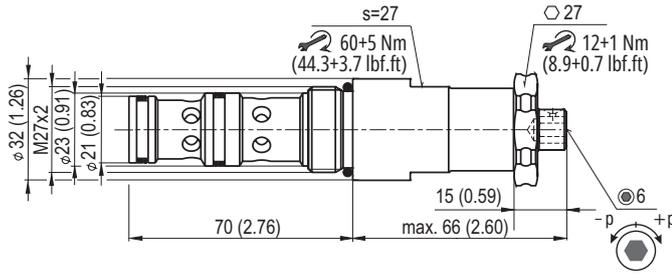
**Pressure drop related to flow rate**

Flow direction P-A  
Fully open valve cross section

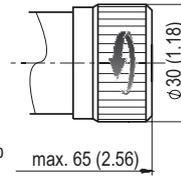


Dimensions in millimeters (inches)

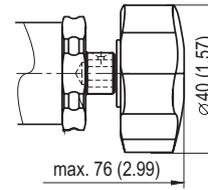
Model S



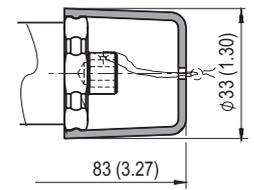
Model RS



Model RP



Model L



Ordering Code

VRN2-10 / S - [ ] [ ] [ ] - [ ]

Pressure reducing - relieving valve,  
spool type, pilot operated M27x2

Model  
screw-in cartridge

Adjustable range of reduced pressure

10 ... 63 bar (145 ... 910 PSI)	6
10 ... 100 bar (145 ... 1450 PSI)	10
10 ... 160 bar (145 ... 2320 PSI)	16
10 ... 210 bar (145 ... 3050 PSI)	21

Surface treatment

A	zinc-coated (ZnCr-3), ISO 9227 (240 h)
B	zinc-coated (ZnNi), ISO 9227 (520 h)

No designation  
V

Seals  
NBR  
FPM (Viton)

Adjustment option

S	allen key (hex. 6), without protective cap
RS	hand screw, metal
RP	hand screw, plastic
L	allen key (hex. 6), with protective cap, sealable (lockwire holes)