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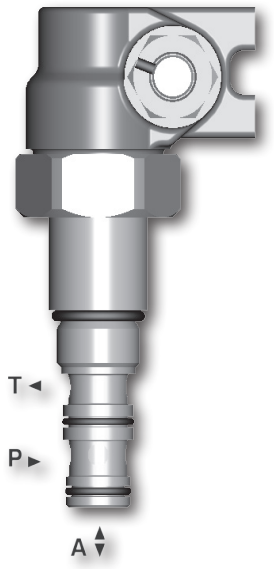
Proportional Pressure Reducing - Relieving Valve, Manually Operated

PVRR1-063

M20x1.5 • Qmax 20 l/min (5 GPM) • pmax 30 bar (435 PSI)



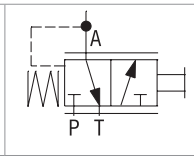
Technical Features

- Excellent stability throughout flow range with the rapid response to manually adjusted spool position and to dynamic operating pressure changes
- Low hysteresis, accurate pressure control and low pressure drop
- Integrated relief function for protection against pressure peaks
- In the basic position of actuator the output channel A is relieved by connecting to the tank
- Pressure range up to 10 bar
- Hardened precision parts
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

Functional Description

A mechanically direct-operated, spool-type pressure reducing-relieving valve in the form of a screw-in cartridge. Reduced pressure is proportional to manually adjusted stroke of the actuating system. This valve is intended for use as a pressure limiting device. Note: Consult factory for special OEM versions of this product.

Symbol



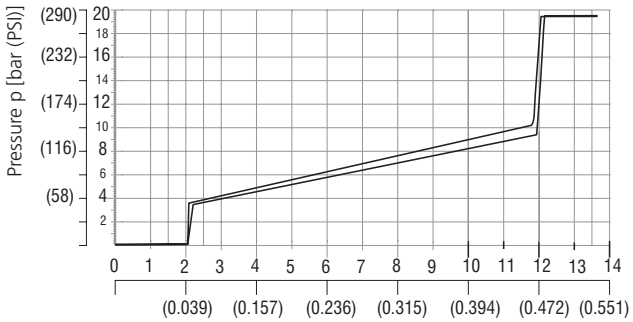
Technical Data

Valve size / Cartridge cavity		M20x1.5 / QE3
Max. pressure (port P)	bar (PSI)	30 (435)
Min. reduced pressure	bar (PSI)	3.5 (51)
Max. reduced pressure	bar (PSI)	10 (145)
Max. flow rate P-A	l/min (GPM)	20 (5.3)
Fluid temperature range (NBR)	°C (°F)	-30 .... +100 (-22 ... +212)
Fluid temperature range (Viton)	°C (°F)	-20 .... +120 (-4 ... +248)
Mass	kg (lbs)	0.328 (0.723)

	Data sheet	Type
General information	GI_0060	Products and operating conditions
Cavity details	SMT_0019	SMT-QE3*
Spare parts	SP_8010	

Characteristics measured at ν = 32 mm²/s (156 SUS)

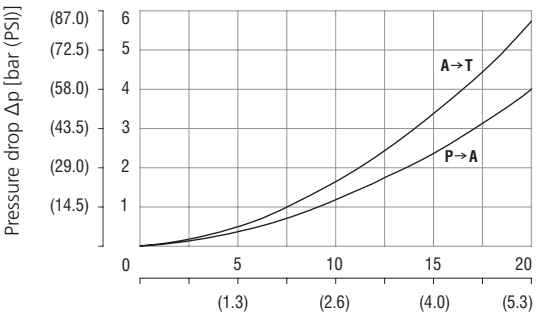
Reduced pressure related to stroke of actuating system



Stroke of actuating system of the valve s [mm (in)]

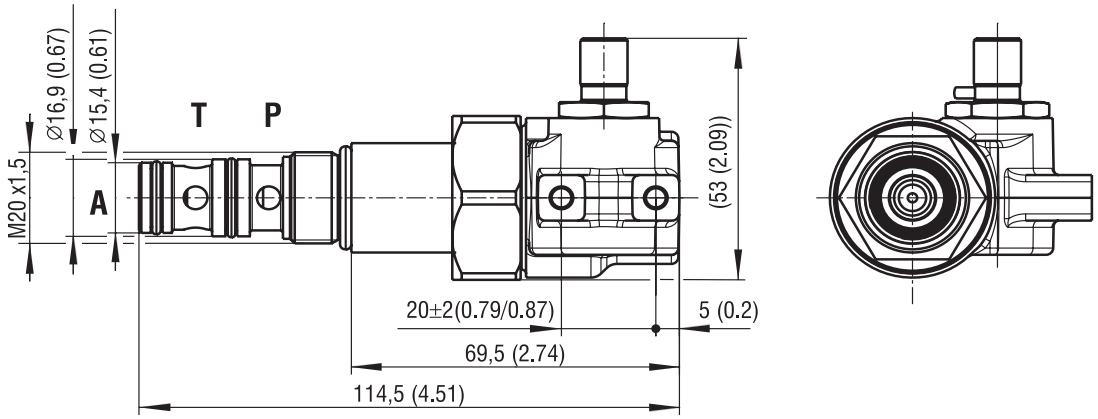
Pressure drop related to flow rate

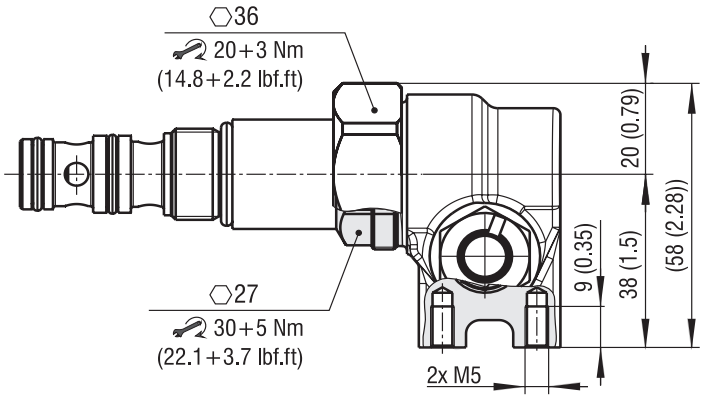
A-T, relieving function
P-A, reducing function



Flow Q [l/min (GPM)]

Dimensions in millimeters (inches)





Ordering Code

PVRR1 - 063 / S - ☐ - ☐ ☐ - ☐

Proportional Pressure Reducing - Relieving Valve, Manually Operated

Valve cavity
M20x1.5 / QE3

Model
screw-in cartridge

Range of regulated pressure
3.5 - 10 bar (51 - 145 PSI) **3,5/10**

Actuator
1 shaft with spring pin

Seals
No designation NBR
V FPM (Viton)

Surface treatment
A zinc-coated (ZnCr-3), ISO 9227 (240 h)