

04 (D02)

20 (5.3)

320 (4640)

210 (3050)

-30 +100 (-22 ... +212) -20 +120 (-4 ... +248)

0.82 (1.81)

0.60 (1.32)

Type

Products and operating conditions

ISO 4401-02-01-0-05

DIN 24340 (CETOP 02)

30-160

(290-910) (440-2320) (730-3050)

50-210

20-63

Pressure Reducing - Relieving Valve, Spool Type, Direct Acting, Modular

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Technical Features

Wide pressure range up to 320 bar

Max. operating pressure (ports P, A, B)

Max. operating pressure (port T)

Fluid temperature range (NBR)

Fluid temperature range (FPM)

- model "B", "P"

Reduced pressure range (at Q = 5 l/min)

Weight - model "A"

General information

Mounting interface

Spare parts

Pressure reduction function in ports P, A, or B Adjustable by allen key or hand screw

Hardened precision parts

Technical Data

Valve size

Max. flow

VRP2-04

Size 04 (D02) • Q 20 l/min (5 GPM) • p____ 320 bar (4600 PSI)

Low hysteresis, accurate pressure control and low pressure drop

Good adjustment sensitivity with reduced drainage flow

Pressure reducing - relieving valve, spool type, direct acting, with mounting interface acc. to ISO 4401, DIN 24340 (CETOP 02) Excellent stability throughout flow range with rapid response to dynamic pressure changes

In the standard version the valve body is phosphated. The steel parts are zinc coated (240 h corrosion protection in NSS acc. to ISO 9227)

l/min (GPM)

10-25

(150-360)

bar (PSI)

bar (PSI)

bar

(PSI)

°C (°F)

°C (°F)

kg (lbs)

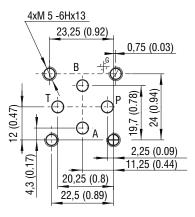
Datasheet

SMT 0019

GI_0060

SP_8010

ISO 4401-02-01-0-05



Ports P, A, B, T - max. Ø 4.5 mm (0.18 in)

Functional Description

The pressure valves VRP2 are directly operated reducing-relieving valves for vertical stacking assemblies designed as 3 way valves, which means it includes pressure protection of the secondary circuit. The valve consists of the valve body, control spool, spring, and adjustment element. The body includes a port M with thread G 1/4 for attachment of a pressure measuring device or a by-pass free flow check valve. Model A

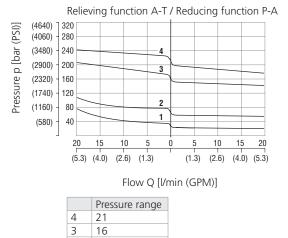
In model A, the fluid enters the valve body from the primary circuit through port A1 and passes through the metering edge, where its pressure is reduced. The flow is passed to the output port A2 and on to the user. The reverse free flow from port A2 to port A1 passes through a check valve which is connected in parallel to the metering edge of the control spool. Model B

In model B, the pressure reduction occurs from port P2 to port P1, but only if the flow in port B passes towards the user (not opposite). The protection of the secondary circuit is therefore ensured for one flow direction only. Model P

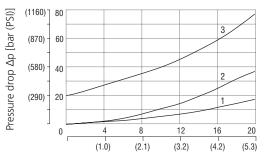
In model P, the pressure reduction occurs from port P2 to port P1, and is effective in both flow directions through the directional valve. Therefore, the protection of the secondary circuit is ensured for both flow directions.

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









Flow O [l/min (GPM)]

- 1 Pressure drop of check valve
- 2 Pressure drop of reducing valve
- at min. adjustable pressure range Pressure drop of relief valve
- at min. adjustable safety pressure

	Direction	
	Model A	Models P, B
3	A2–T	P1-T
2	A1–A2	P2-P1
1	A2–A1	

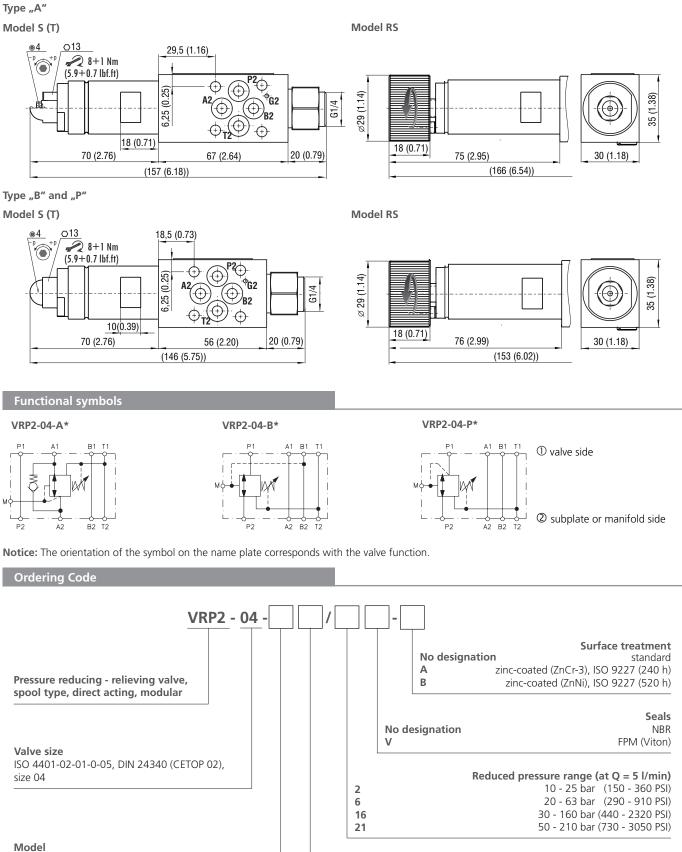


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Туре "А"



S

Т

RS

Α

В

Ρ

Pressure sensing

at port A2

at port B1

at port P1

Pressure reduction

on port A2

on port P1

on port P1