

06 (D03)

50 (13.2)

350 (5080)

210 (3050

(150-360) (290-910) (440-2320) (580-3050)

-30 +100 (-22 ... +212)

-20 +120 (-4 ... +248)

1.75 (3.85)

1.50 (3.31)

Туре

Products and operating conditions

ISO 4401-03-02-0-05

DIN 24340 (CETOP 03)

30-160

40-210

20-63

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

VRP2-06

Size 06 (D03) • Q_{max} 50 l/min (13 GPM) • p_{max} 350 bar (5100 PSI)

Technical Features

- Pressure reducing relieving valve, spool type, direct acting, with mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- > Excellent stability throughout flow range with rapid response to dynamic pressure changes
- > Low hysteresis, accurate pressure control and low pressure drop
- Wide pressure range up to 350 bar
- High flow capacity

Technical Data

Valve size

Max. flow

Mass

- Hardened precision parts
- > Pressure reduction function in ports P, A, or B
- > Adjustable by allen key or hand screw

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

Max. operating pressure (port T)

Fluid temperature range (NBR)

Fluid temperature range (FPM)

- model "A", "E"

- model "B", "P"

Reduced pressure range

General information

Mounting interface

Spare parts

(at Q = 5 l/min)

- > Good adjustment sensitivity with reduced drainage flow
- In the standard version, the valve housing is phosphated and steel parts are zinc-coated for 240 h protection acc. to ISO 9227

l/min (GPM)

10-25

bar (PSI)

bar (PSI)

bar

(PSI)

°C (°F)

°C (°F)

kg (lbs)

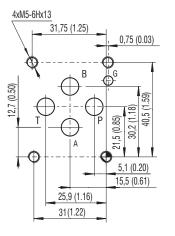
Datasheet

GI 0060

SP 8010

SMT_0019

ISO 4401-03-02-0-05



Ports P, A, B, T - max. Ø7.5 mm (0.29 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 E

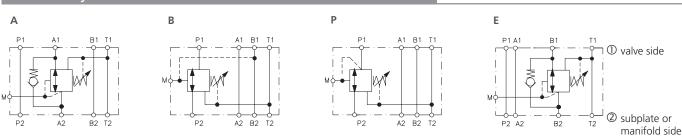
In model E, the fluid enters the valve body from the primary circuit through port B1 and passes through the metering edge, where its pressure is reduced. The flow is passed to the output port B2 and on to the user. The reverse free flow from port B2 to port B1 passes through a check valve which is connected 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

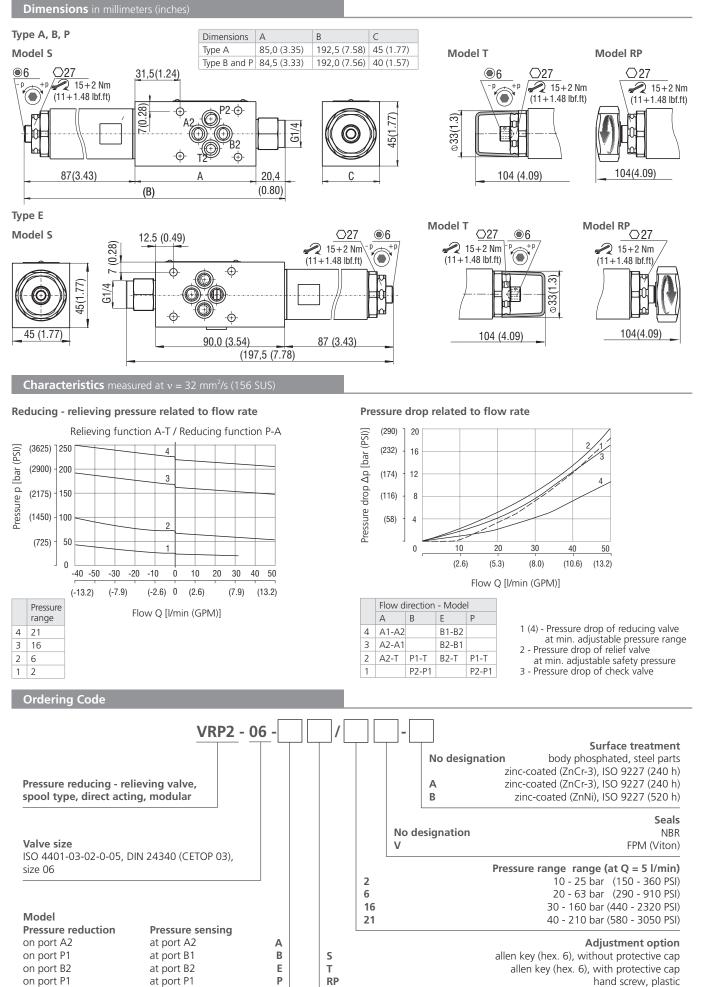
In model P, the pressure reduction occurs from port P2 to port P1, and is effective in both flow directions through the directional valve. Therefore, the protection of the secondary circuit is ensured for both flow directions.

Functional symbols



Notice: The orientation of the symbol on the name plate corresponds with the valve function.





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Subject to change · VRP2-06_5145_1en_02/2016