VRP2-06

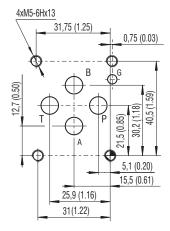
Size 06 (D03) • Q_{max} 50 l/min (13 GPM) • p_{max} 350 bar (5100 PSI)



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
- Hardened precision parts
- > Pressure reduction function in ports P, A, or B
- Adjustable by allen key or hand screw
- > Good adjustment sensitivity with reduced drainage flow
- In the standard version, the valve housing is phosphated for basic surface corrosion protection and as preparation for painting. Steel parts are zinc-coated for 240 h salt spray protection acc. to ISO 9227
- Enhanced surface protection for mobile sector available for the valve housing and steel parts (ISO 9227, 520 h salt spray)

ISO 4401-03-02-0-05



Ports P, A, B, T - max. ∅7.5 mm (0.29 in)

Technical Data

Valve size		06 (D03)			
Max. flow	l/min (GPM)	50 (13.2)			
Max. operating pressure (ports P, A, B)	bar (PSI)	350 (5080)			
Max. operating pressure (port T)	bar (PSI)	210 (3050)			
Reduced pressure range (at Q = 5 l/min)	bar	10-25	20-63	30-160	40-210
	(PSI)	(150-360)	(290-910)	(440-2320)	(580-3050)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)			
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)			
Weight - model "A", "E"	ka (lbs)	1,75 (3.85)			
- model "B", "P"	kg (lbs)	1,50 (3.31)			
	Datasheet	Type			
General information	GI_0060	Products and operating conditions			
Mounting interface	SMT_0019	ISO 4401-03-02-0-05 DIN 24340 (CETOP 03)			
Spare parts	SP_8010				

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.

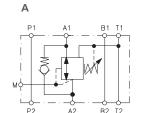
Model B

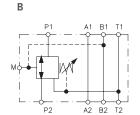
In model B, the pressure reduction occurs from port P2 to port P1, but only if the flow in port B passes towards the user (not opposite). The protection of the secondary circuit is therefore ensured for one flow direction only.

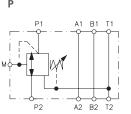
Model P

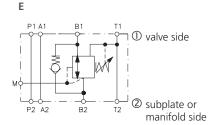
In model P, the pressure reduction occurs from port P2 to port P1, and is effective in both flow directions through the directional valve. Therefore, the protection of the secondary circuit is ensured for both flow directions.

Functional symbols







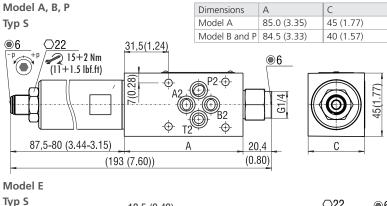


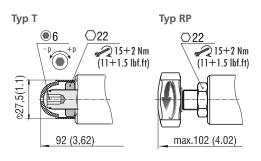
Notice: The orientation of the symbol on the name plate corresponds with the valve function.

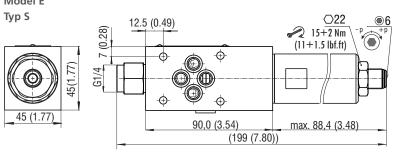
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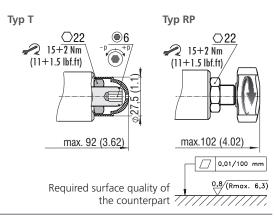


Dimensions in millimeters (inches)









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 (3625) 7250 Pressure p [bar (PSI)] (2900)200 3 (2175) 150 100 (1450)(725)50 0 -50 -40 -30 -20 -10 0 10 20 30

(2.6)

(7.9)

(13.2)

(-2.6) 0

Flow Q [l/min (GPM)]

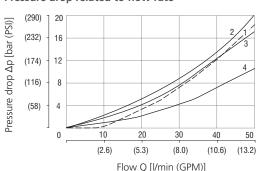
Pressure range
4 21
3 16
2 6

1 2

(-13.2)

(-7.9)

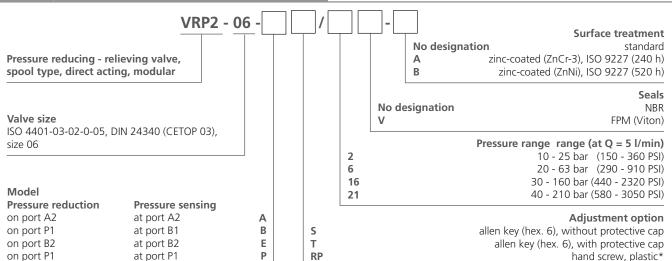
Pressure drop related to flow rate



	Flow direction - Model					
	А	В	Е	Р		
4	A1-A2		B1-B2			
3	A2-A1		B2-B1			
2	A2-T	P1-T	B2-T	P1-T		
1		P2-P1		P2-P1		

- 1 (4) Pressure drop of reducing valve at min. adjustable pressure range
- 2 Pressure drop of relief valve at min. adjustable safety pressure3 - Pressure drop of check valve

Ordering Code



^{*}For pressure ranges 16 and 21 is possible to adjust reduced pressure only in circuit without pressure