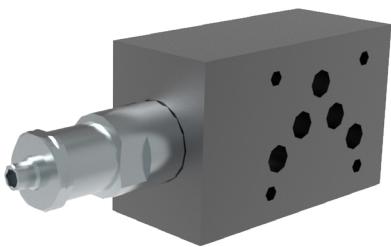


Pressure Relief Valve, Spool Type, Pilot Operated, Modular

VPN2-10/M(R)

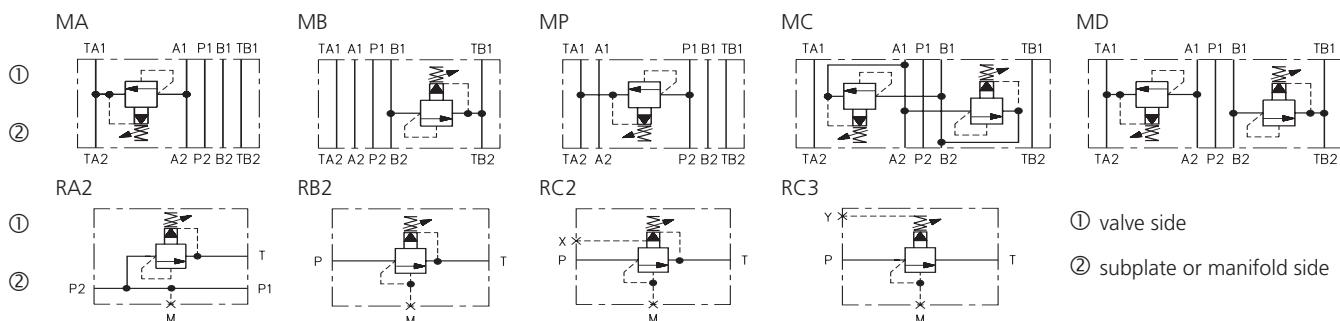
Size 10 (D05) • Q_{\max} 150 l/min (40 GPM) • p_{\max} 350 bar (5100 PSI)



Technical Features

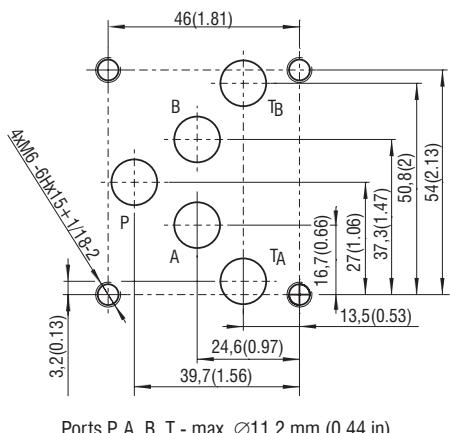
- › Pressure relief valve, spool type, pilot operated, with mounting interface acc. to ISO 4401, DIN 24340 (CETOP 05) or in-line design
- › Low hysteresis, accurate pressure control and low pressure drop
- › Wide pressure range up to 350 bar
- › High flow capacity
- › Hardened precision parts
- › Ideal for use as control valve where accuracy and repeatability is required
- › Adjustable by allen key or hand screw, optionally sealable (lockwire holes)
- › In the standard version, the valve housing is phosphated and steel parts are zinc-coated for 240 h protection acc. to ISO 9227

Functional Symbols



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

ISO 4401-05-04-0-05



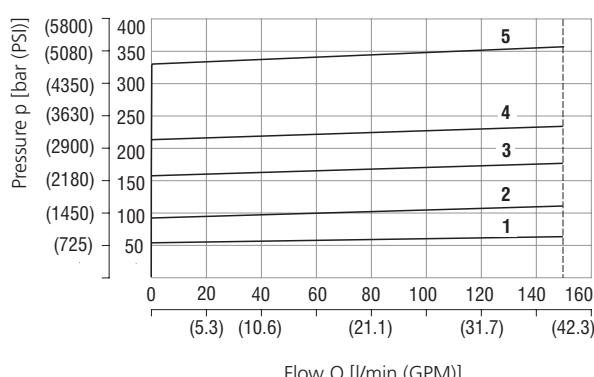
Technical Data

Valve size	10 (D05)	
Max. flow	l/min (GPM)	150 (40)
Max. operating pressure	bar (PSI)	350 (5080)
Fluid temperature range (NBR)	°C (°F)	-30 ... +100 (-22 ... 212)
Fluid temperature range (FPM)	°C (°F)	-20 ... +120 (-4 ... 248)
Mass	kg (lbs)	2.15 (4.74) 3.0 (6.61) 2.7 (5.95)
- models MA (B, P) 10		
- models MC (D) 10		
- models RA2, RB2, RC2 (3)		

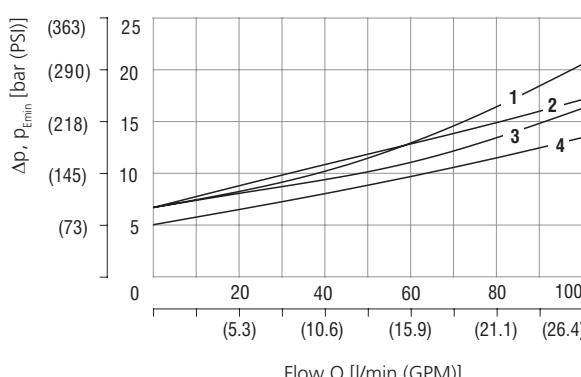
	Datasheet	Type
General information	GI_0060	Products and operating conditions
Mounting interface	SMT_0019	Size 10
Spare parts	SP_8010	

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

Relief pressure related to flow rate

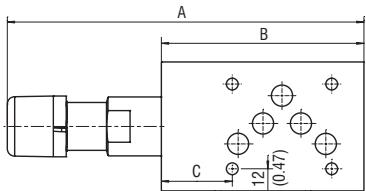


Minimum set and circulation pressure

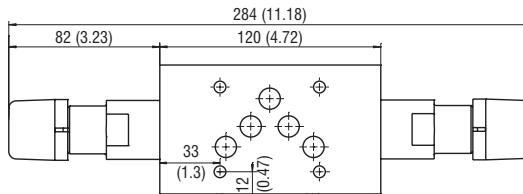


Dimensions in millimeters (inches)

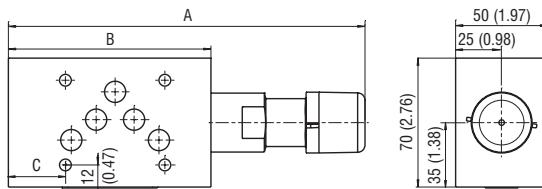
Model MA, MP



Model MC, MD

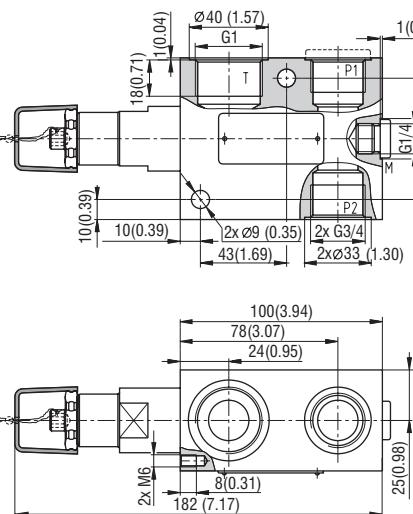


Model MB

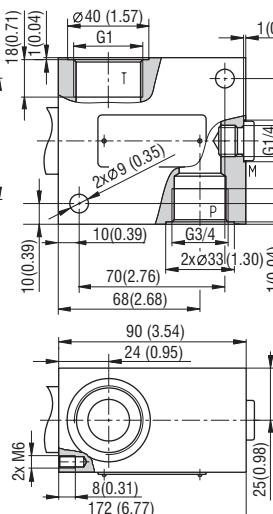


Size 10	A	B	C
MA	187 (7.36)	105 (4.13)	33 (1.30)
MB			38.5 (1.52)
MP	192 (7.56)	110 (4.33)	18 (0.71)

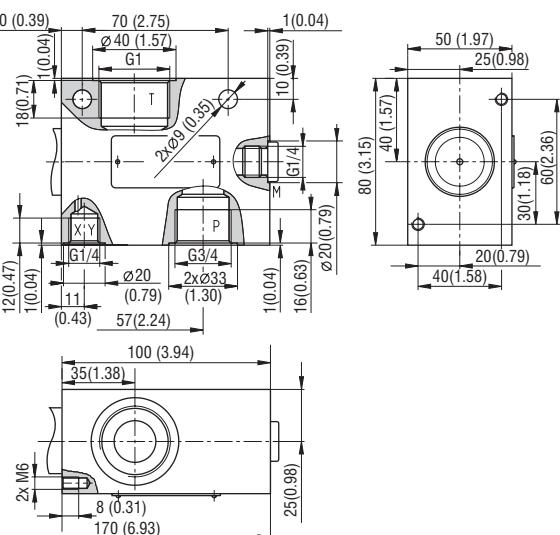
Model RA2



Model RB2



Model RC2, RC3



Ordering Code

VPN2-10 / - - -

Pressure relief valve, spool type,
pilot operated, modular

Model
modular, valve from A to TA
modular, valve from B to TB
modular, valve from P to TA
modular, valve from A to B and B to A
modular, valve from A to TA and B to TB
in-line valve, three ports, thread P1, P2-G3/4, T-G1
in-line valve, two ports, thread P-G3/4, T-G1
in-line valve, two ports, thread P-G3/4, T-G1, X-G1/4
in-line valve, two ports, thread P-G3/4, T-G1, Y-G1/4

MA
MB
MP
MC
MD
RA2
RB2
RC2
RC3

Surface treatment

No designation body phosphated, steel parts
zinc-coated (ZnCr-3), ISO 9227 (240 h)
A zinc-coated (ZnCr-3), ISO 9227 (240 h)
B zinc-coated (ZnNi), ISO 9227 (520 h)

No designation
V

Seals
NBR
FPM (Viton)

S
T
RS
RP
L

S/RS

Adjustment option*
allen key (hex. 6), without protective cap
allen key (hex. 6), with protective cap
hand screw, metal
hand screw, plastic
allen key (hex. 6), with protective cap, sealable
(lockwire holes)

Model with two pressure relief cartridges
A side, allen key (hex. 6), without protective cap
B side, hand screw, metal

*for dimensions of adjustment options see data sheet No.5163

6
10
16
21
32

32/10

Pressure range
up to 63 bar (910 PSI)
up to 100 bar (1450 PSI)
up to 160 bar (2320 PSI)
up to 210 bar (3050 PSI)
up to 320 bar (4600 PSI)

Model with two pressure relief cartridges
320 bar (4600 PSI) in port A, 100 bar (1450 PSI) in port B

Modular plate size

ISO 4401-05-04-0-05, DIN 24340 (CETOP 05), size 10