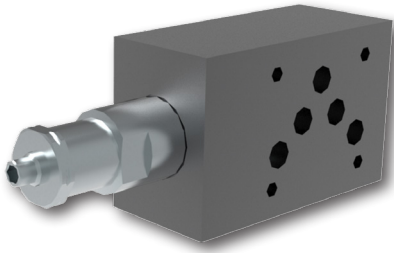


Pressure Relief Valve, Spool Type, Pilot Operated, Modular

VPN2-10/M(R)

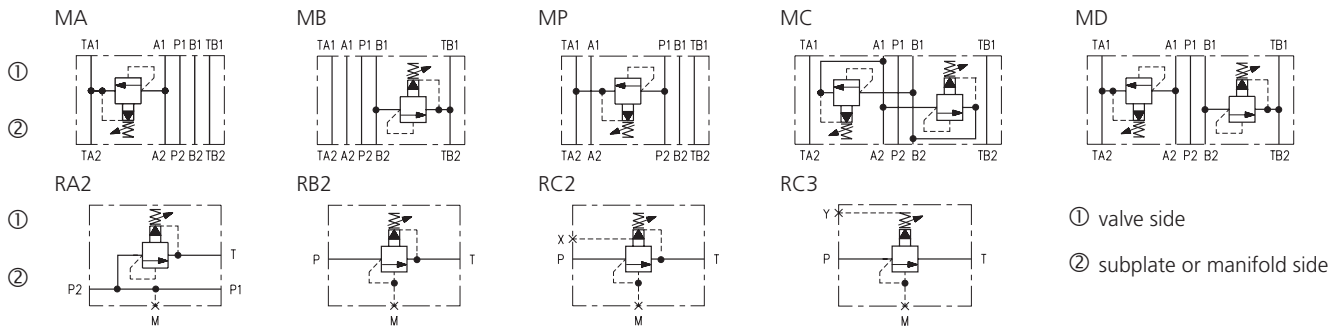
Size 10 (D05) • Q_{max} 150 l/min (40 GPM) • p_{max} 350 bar (5100 PSI)



Technical Features

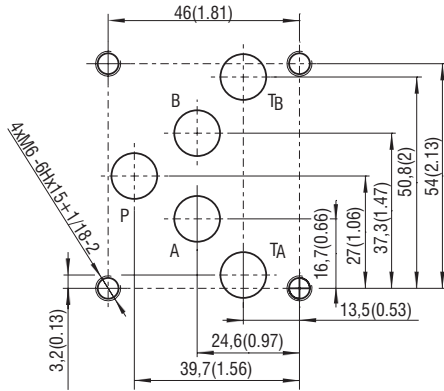
- › Pressure relief valve, spool type, pilot operated, with mounting interface acc. to ISO 4401, DIN 24340 (CETOP 05) or in-line design
- › Low hysteresis, accurate pressure control and low pressure drop
- › Wide pressure range up to 350 bar
- › High flow capacity
- › Hardened precision parts
- › Ideal 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 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)

Functional Symbols



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

ISO 4401-05-04-0-05



Ports P, A, B, T - max. $\varnothing 11.2$ mm (0.44 in)

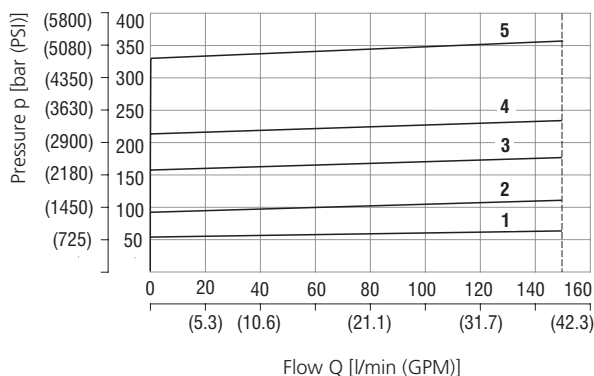
Technical Data

Valve size		10 (D05)
Max. flow	l/min (GPM)	150 (40)
Max. operating pressure	bar (PSI)	350 (5100)
Fluid temperature range (NBR)	°C (°F)	-30 ... +100 (-22 ... 212)
Fluid temperature range (FPM)	°C (°F)	-20 ... +120 (-4 ... 248)
Weight - models MA (B, P) 10	kg (lbs)	2.15 (4.74)
- models MC (D) 10		3.0 (6.61)
- models RA2, RB2, RC2 (3)		2.7 (5.95)

	Datasheet	Type
General information	HA 0060	Products and operating conditions
Mounting interface	HA 0019	Size 10
Spare parts	HA 8010	

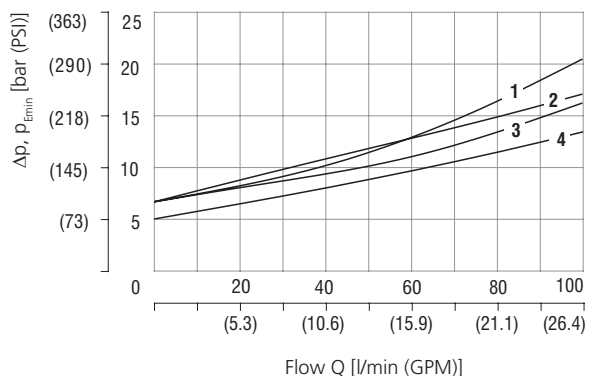
Characteristics measured at $v = 32$ mm²/s (156 SUS)

Relief pressure related to flow rate



Pressure range	6	10	16	21	32
	1	2	3	4	5

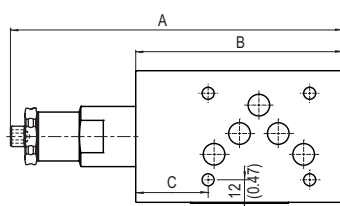
Minimum set and circulation pressure



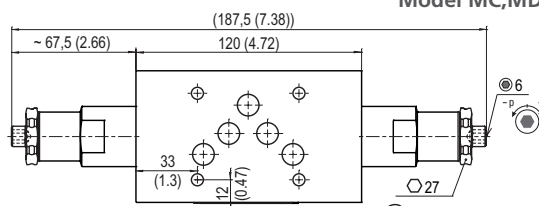
Models	MC	MP	MA, MB	RA, RB, RC
	1	2	3	4

Dimensions in millimeters (inches)

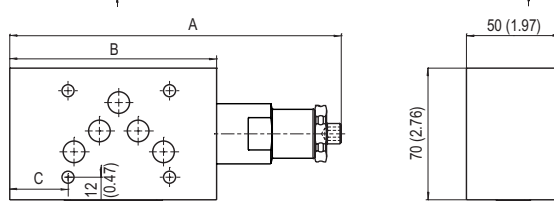
Model MA, MP



Model MC, MD



Model MB



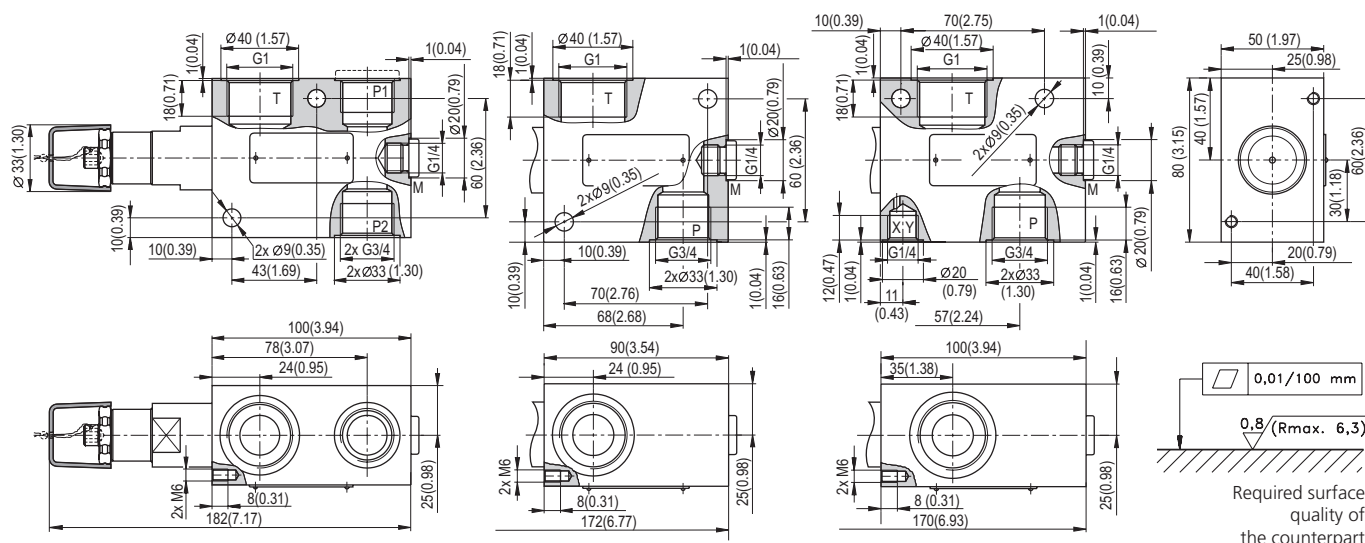
12+1 Nm
(8.9+0.7 lbf.ft)

Size 10	A	B	C
MA	172.5 (6.79)	105 (4.13)	33 (1.30)
MB			38.5 (1.52)
MP	177.5 (6.99)	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

Modular plate size

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

10

No designation

Surface treatment
standard
A zinc-coated (ZnCr-3), ISO 9227 (240 h)
B zinc-coated (ZnNi), ISO 9227 (520 h)

No designation

Seals
NBR
FPM (Viton)

S
RS
RP
L

Adjustment option*
allen key (hex. 6), without 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 datasheet No.5163

6
10
16
21
32

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