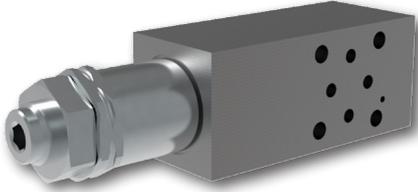


**VPP2-04/M(R)**

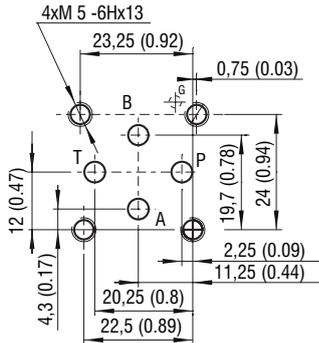
Size 04 (D02), 06 (D03) • Q<sub>max</sub> 40 l/min (11 GPM) • p<sub>max</sub> 320 bar (4600 PSI)



**Technical Features**

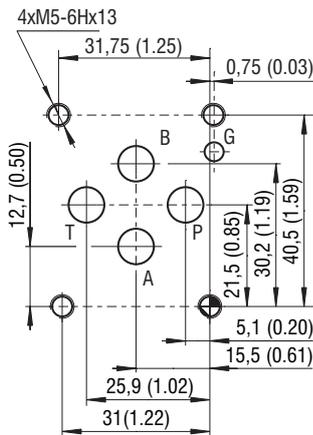
- › Pressure relief valve, poppet type, direct acting, modular with mounting interface acc. to ISO 4401, DIN 24340 (CETOP 02 and 03) or in-line design
- › Excellent stability throughout flow range with rapid response to dynamic pressure changes
- › Low hysteresis, accurate pressure control and low pressure drop
- › Wide pressure range up to 320 bar
- › Hardened precision parts
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › Adjustable by allen key or hand screw
- › In the standard version, the sandwich plate of valve is phosphated for basic surface corrosion protection and as preparation for painting. Steel parts are zinc-coated for corrosion protection 240 h in NSS acc. to ISO 9227.
- › Enhanced surface protection for mobile applications is available. The sandwich plate and steel parts are zinc-coated with corrosion protection 520 h in NSS

**ISO 4401-02-01-0-05**



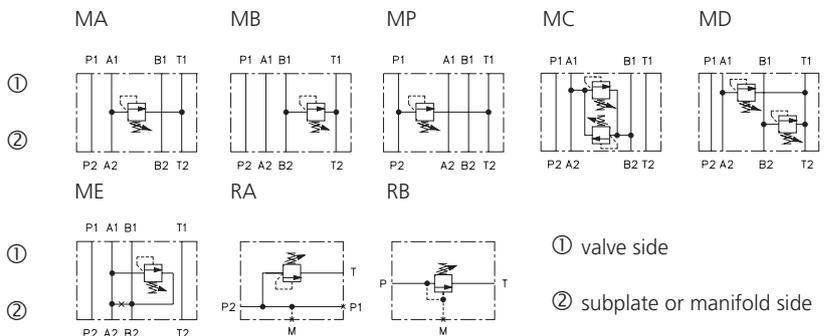
Ports P, A, B, T - max. Ø4.5 mm (0.18 in)

**ISO 4401-03-02-0-05**



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

**Functional Symbols**



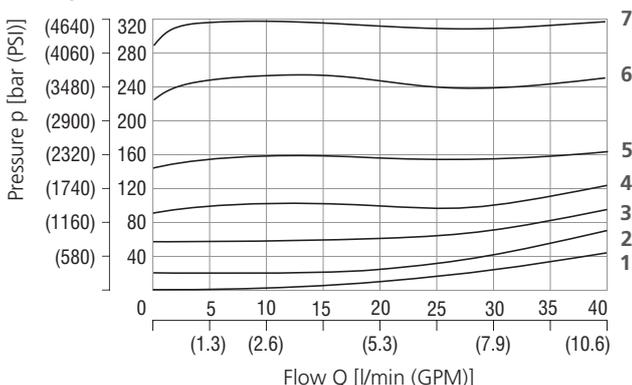
Notice: The orientation of the symbol on the name plate corresponds with the valve function.

**Technical Data**

Valve size	04 (D02), 06 (D03)	
Max. flow	l/min (GPM)	40 (10.6)
Max. pressure	bar (PSI)	320 (4600)
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) 04	kg (lbs)	0.82 (1.81)
- models MC (D, E) 04		1.32 (2.91), ME 1.25 (2.76)
- models MA (B, P) 06		1.12 (2.46)
- models MC (D, E) 06		1.42 (3.12), ME 1.35 (2.98)
- models RA1 (2), RB1 (2)		1.17 (2.57)
	Datasheet	Type
General information	HA 0060	Products operating conditions
Mounting interface	HA 0019	Size 04 / 06
Spare parts	HA 8010	

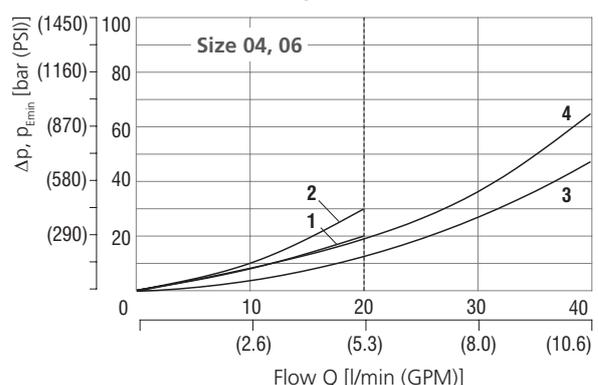
**Characteristics** measured at v = 32 mm<sup>2</sup>/s (156 SUS)

**Relief pressure related to flow rate**



Pressure range	Min. pressure setting	2	6	10	16	25	32
		1	2	3	4	5	6

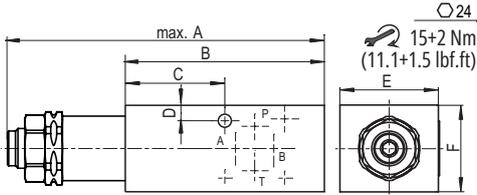
**Minimum set and circulation pressure**



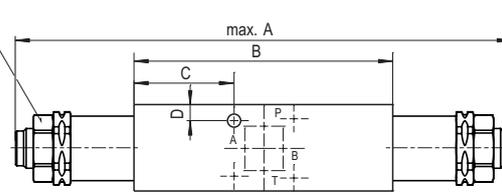
Size 04	Size 06	Models
1	3	MA, MB, MP, MD
2	4	MC, ME

Dimensions in millimeters (inches)

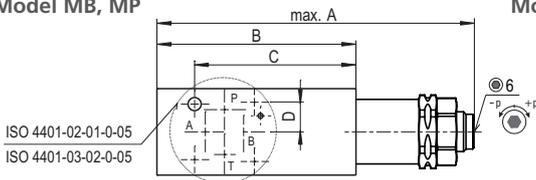
Model MA



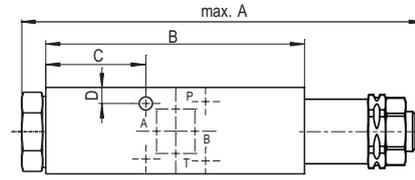
Model MC,MD



Model MB, MP

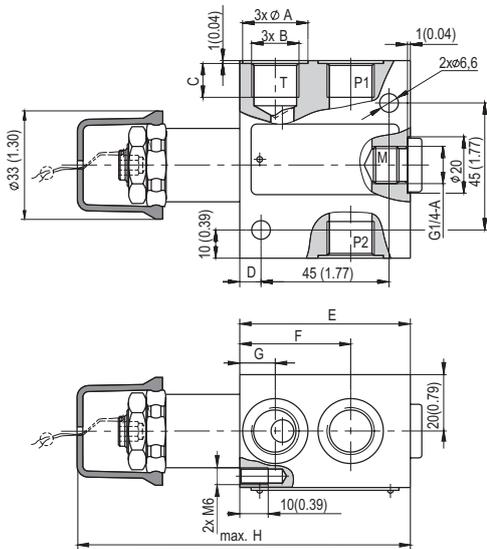


Model ME

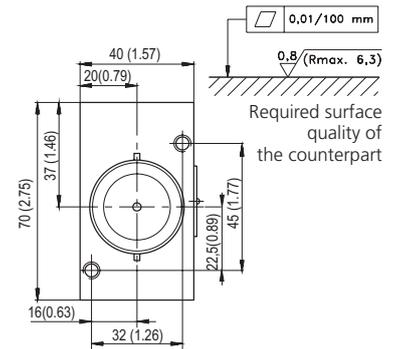
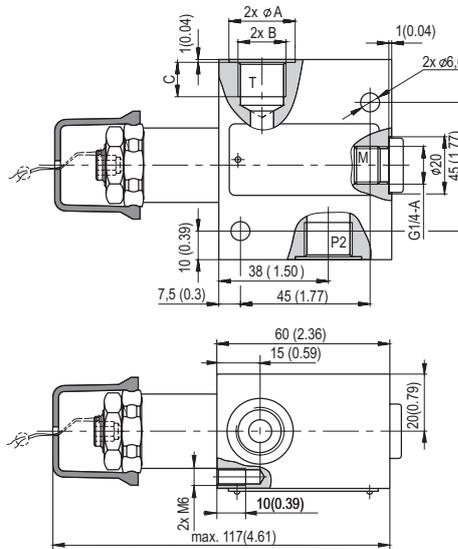


Version	Size	04 (D02)	06 (D03)
MA (B,P)	A	127 (5.00)	
MC (D)		198 (7.80)	188 (7.40)
ME		160 (6.30)	150 (5.91)
MA (B,P)	B	80 (3.15)	
MC (D,E)		104 (4.09)	94 (3.70)
MA (C,D,E)	C	40 (1.57)	25.5 (1.0)
MB (P)		64 (2.52)	68.5 (2.7)
MA (B,C) MD (E,P)	D	6.25 (0.25)	7 (0.28)
	E	35 (1.38)	40 (1.57)
	F	35 (1.38)	45 (1.77)

Model RA1, RA2



Model RB1, RB2



	RA1, RB1	RA2, RB2
A	∅ 23	∅ 28
B	G 3/8-A	G 1/2-A
C	12 (0.47)	14 (0.55)
D	7.5 (0.3)	18 (0.71)
E	60 (2.36)	70 (2.76)
F	39 (1.54)	46 (1.81)
G	12.5 (0.49)	16 (0.63)
H	117 (4.61)	127 (5)

Ordering Code

VPP2-04 / [ ] - [ ] - [ ] - [ ] - [ ]

Pressure relief valve, poppet type, direct acting, modular

Model

modular, valve from A to T **MA**  
 modular, valve from B to T **MB**  
 modular, valve from P to T **MP**  
 modular, valve from A to B and B to A **MC**  
 modular, valve from A to T and B to T **MD**  
 modular, valve from A to B **ME**  
 in-line valve, three ports, thread G 3/8 (P1, P2, T) **RA1**  
 in-line valve, three ports, thread G 1/2 (P1, P2, T) **RA2**  
 in-line valve, two ports, thread G 3/8 (P, T) **RB1**  
 in-line valve, two ports, thread G 1/2 (P, T) **RB2**

Modular plate size

ISO 4401-02-01-0-05, DIN 24340 (CETOP 02), size 04 **04**  
 ISO 4401-03-02-0-05, DIN 24340 (CETOP 03), size 06 **06**

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

**Seals**  
 NBR  
 FPM (Viton)

**Adjustment option\***  
 allen key (hex. 6), without protective cap  
 hand screw, metal  
 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.5093

**Pressure range**  
 up to 25 bar (360 PSI)  
 up to 63 bar (910 PSI)  
 up to 100 bar (1450 PSI)  
 up to 160 bar (2320 PSI)  
 up to 250 bar (3630 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