

# Check Valve, Poppet Type, Pilot to Open, Modular

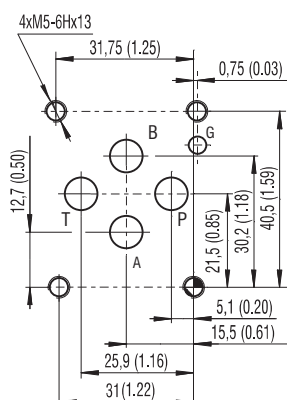
**2RJV1-06/M**

Size 06 (D03) •  $Q_{max}$  60 l/min (16 GPM) •  $p_{max}$  320 bar (4600 PSI)

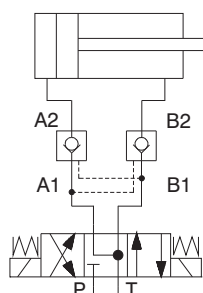

## Technical Features

- › Pilot to open check valve, poppet type with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- › Sandwich plate design for use in vertical stacking assemblies
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › High flow capacity
- › Optional bias spring ranges for back-pressure control
- › Three pilot ratios available
- › In the standard version, the valve housing is phosphated and steel parts are zinc-coated for 240 h protection acc. to ISO 9227

ISO 4401-03-02-0-05


Ports P, A, B, T max.  $\varnothing 7.5$  mm (0.29 in)

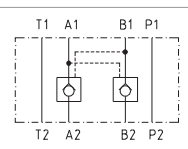
## Typical circuit with pilot operated check valve



## Functional Description

The valve allows flow to pass from port A(B)1 to A(B)2 while normally closing flow from A(B)2 to A(B)1 with load. When pressure is applied at pilot port. The flow passes from port 2 to 1. The valve has three pilot ratios option. This requires at least one-third (ratio 3:1), one-sixth (ratio 6:1) or one-ninth (ratio 9:1) of the load pressure to be applied at the opposite port to open the valve. The check valve is spring closed to secure the holding position in static conditions and without load. The valve is offered with optional bias spring ranges for back-pressure control.

### Symbol



## Technical Data

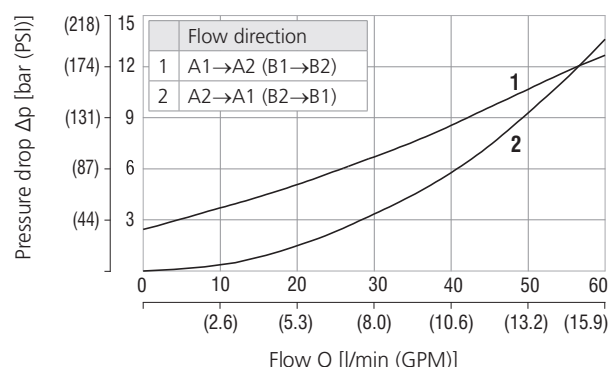
Valve size	06 (D03)	
Max. flow	l/min (GPM)	60 (15.9)
Max. operating pressure	bar (PSI)	320 (4640)
Cracking pressure	bar (PSI)	3 (43.5) 4 (58) 5 (72.5) 8 (116) 12 (174)
Fluid temperature range (NBR)	°C (°F)	-30 .... +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 .... +120 (-4 ... +248)
Pilot ratio	3:1 / 6:1 / 9:1	
Weight	kg (lbs)	0.8 (1.76)

	Datasheet	Type
General information	GI_0060	Products and operating conditions
Mounting interface	SMT_0019	Size 06
Spare parts	SP_8010	

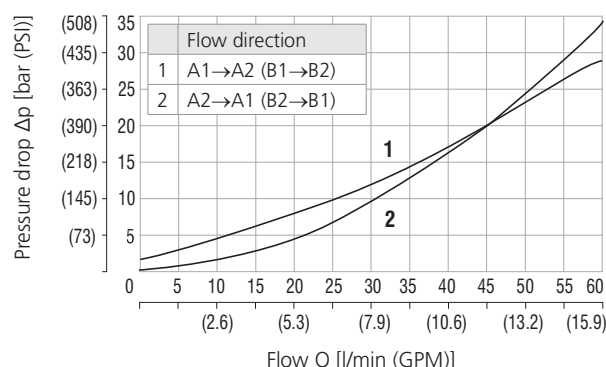
## Characteristics measured at $v = 32$ mm<sup>2</sup>/s (156 SUS)

### Pressure drop related to flow rate

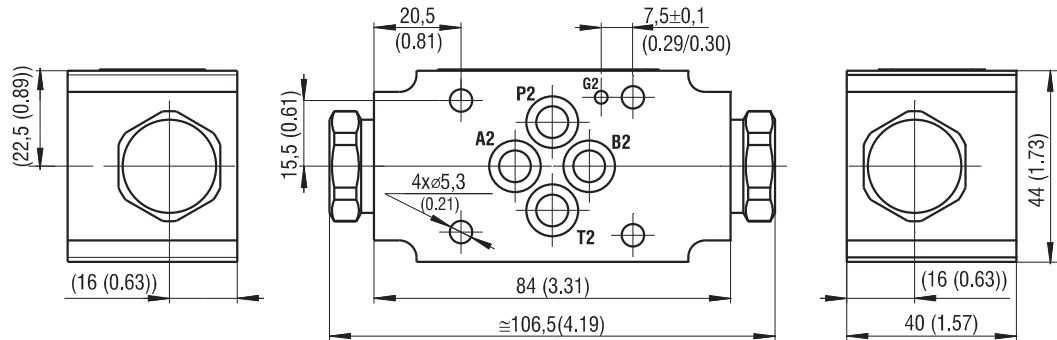
Pilot ratio 3 : 1



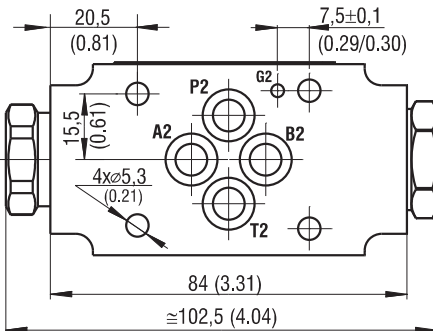
Pilot ratio 6 : 1



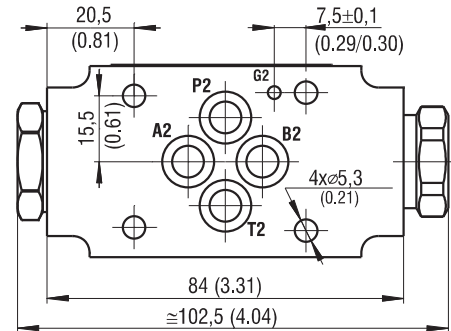
### Model MC



### Model MA

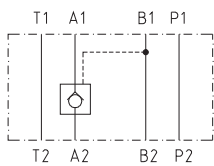


### Model MB

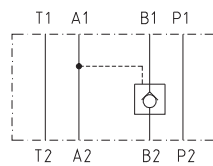


## Functional symbols

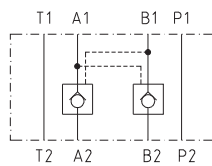
2RJV1-06/MA



## 2RJV1-06/MB



## 2RJV1-06/MC



- ① valve side
- ② subplate or manifold side

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

### Ordering Code

[illegible]

\*Preferred type for pilot ratio 3 :1 respective 9 :1