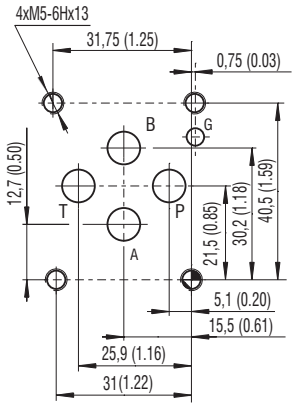
2RJV1-06/M

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

Technical Features

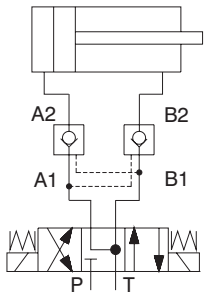
- Pilot to open check valve, poppet-type with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- Sandwich plate design for use in vertical stacking assemblies
- Sharp-edged steel seats for dirt-tolerant performance
- Leak-free closing, suitable for fast cycling with long life
- High flow capacity
- Optional bias spring ranges for back-pressure control
- Two 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



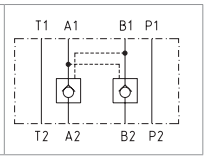
Ports P, A, B, T
max ∅7.5 mm (0.29 in)

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 two pilot ratios option. This requires at least one-third (ratio 3:1) 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	

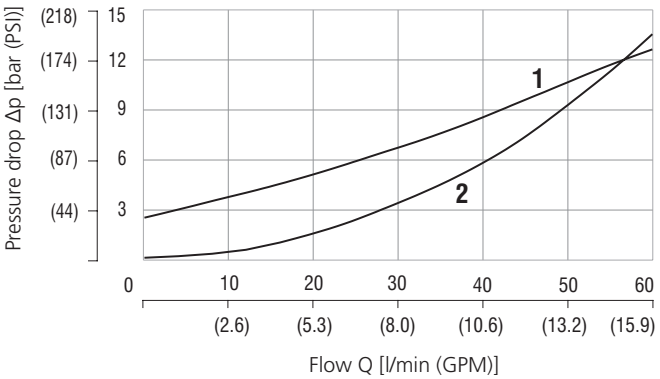
Technical Data

Valve size		06 (D 03)
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 / 9 : 1
Mass	kg (lbs)	0.8 (1.76)

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

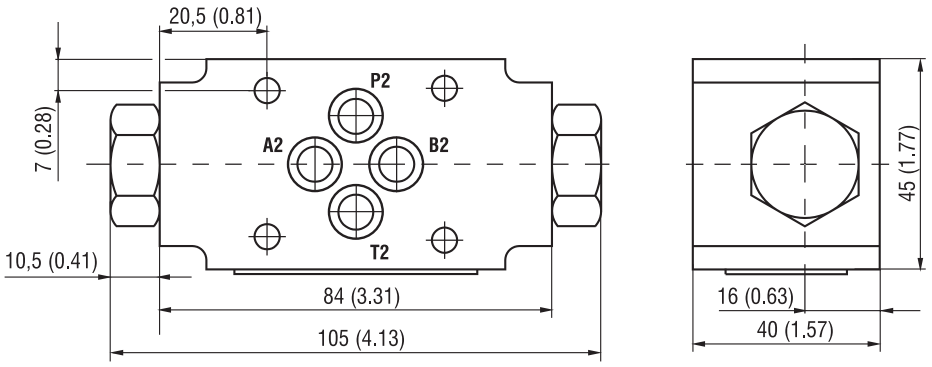
Characteristics measured at ν = 32 mm²/s (156 SUS)

Pressure drop related to flow rate



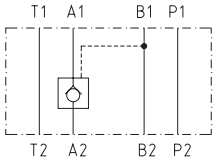
	Flow direction
1	A1→A2 (B1→B2)
2	A2→A1 (B2→B1)

Dimensions in millimeters (inches)

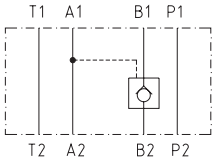


Functional symbols

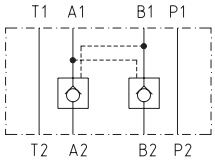
2RJV1-06/MA



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

2RJV1 - 06 / M □ □ - □ □ - □

Check valve, pilot to open, poppet-type, modular

Valve size

Modular sandwich plate design

Functional symbols

check valve in line A	**A**
check valve in line B	**B**
check valve in line A and B	**C**

Pilot ratio

3 : 1	**3**
9 : 1	**9**

Surface treatment

No designation	body phosphated, steel parts
	zinc-coated (ZnCr-3), ISO9227 (240 h)
A	zinc-coated (ZnCr-3), ISO 9227 (240 h)
B	zinc-coated (ZnNi), ISO 9227 (520 h)

Seals

No designation	NBR
V	FPM (Viton)

Cracking pressure

000	no spring
030	3 bar (43.5 PSI)
040*	4 bar (58.0 PSI)
050*	5 bar (72.5 PSI)
080*	8 bar (116 PSI)
120*	12 bar (174 PSI)

* Only for pilot ratio 3:1