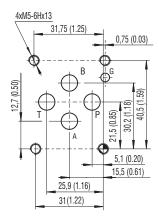




## **Technical Features**

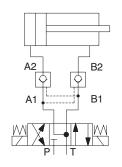
- Pilot to open check valve, poppet type with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- > Sandwich plate design for use in vertical stacking assemblies
- > Sharp-edged steel seats for dirt-tolerant performance
- > Leak-free closing, suitable for fast cycling with long life
- > 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



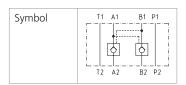
Ports P, A, B, T max. Ø7.5 mm (0.29 in)

## 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.



## **Technical Data**

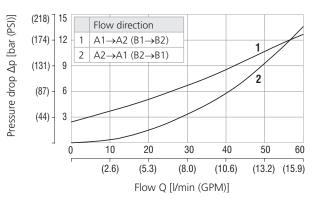
Valve size		06 (D03)	
Max. flow	l/min (GPM)	60 (15.9)	
Max. operating pressure	bar (PSI)	320 (4640)	
Cracking pressure	bar (PSI)	3 (43.5) 4 (58) 5 (72.5) 8 (116) 12 (174)	
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)	
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)	
Pilot ratio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

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

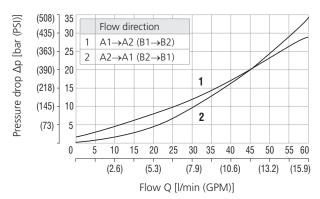
# **Characteristics** measured at $v = 32 \text{ mm}^2\text{/s}$ (156 SUS)

#### Pressure drop related to flow rate

Pilot ratio 3:1



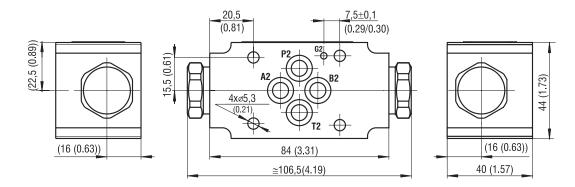
Pilot ratio 6:1



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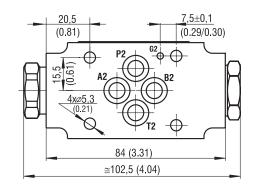


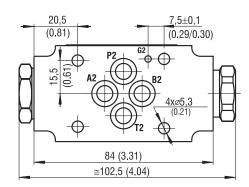
#### Model MC



Model MB

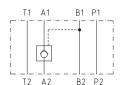
#### Model MA



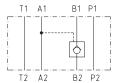


## **Functional symbols**

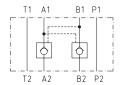
## 2RJV1-06/MA



## 2RJV1-06/MB



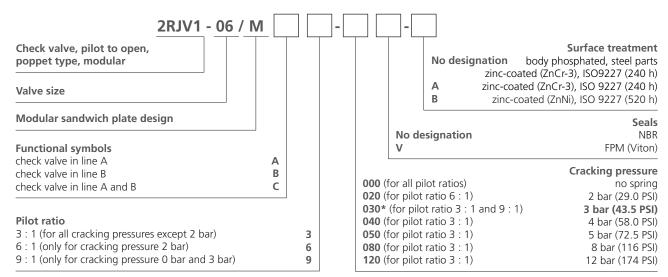
## 2RJV1-06/MC



- ① valve side
  - subplate or manifold side

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

## **Ordering Code**



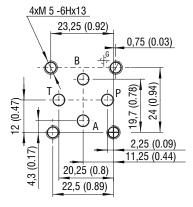
\*Preferred type for pilot ratio 3:1 respective 9:1

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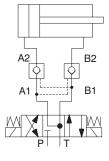


#### ISO 4401-02-01-0-05



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

## Typical circuit with pilot operated check valve

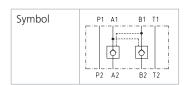


## **Technical Features**

- Pilot to open check valve, poppet-type with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 02)
- > 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
- In the standard version, the valve housing is phosphated and steel parts are zinc-coated for 240 h protection acc. to ISO 9227

## **Functional Description**

The valve allows flow to pass from port A(B)1 to A(B)2 while normally under load inhibiting flow from A(B)2 to A(B)1. When pressure is applied at the pilot port, the valve is opened and flow passes from port 2 to 1. The valve has a 3:1 pilot ratio, meaning that at least one third of the load pressure must be applied to open the valve. The check valve is spring closed to secure the holding position in static conditions and without load.



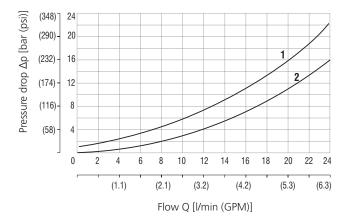
## **Technical Data**

Valve size		04 (D02)	
Max. flow	l/min (GPM)	20 (5.3)	
Max. operating pressure	bar (PSI)	320 (4640)	
Cracking pressure	bar (PSI)	1 (14.5)	
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)	
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)	
Pilot ratio		3:1	
Mass	kg (lbs)	0.7 (1.54)	

	Datasheet	Туре
General information	GI_0060	Products and operating conditions
Mounting interface / tolerances	SMT_0019	Size 04
Spare parts	SP_8010	

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

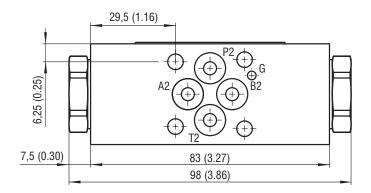
## Pressure drop related to flow rate

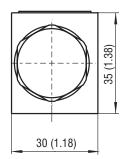


	Flow direction
1	A1→A2 (B1→B2)
2	A2→A1 (B2→B1)

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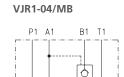




# **Functional symbols**

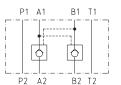
# P1 A1 B1 T1

VJR1-04/MA



B2 T2

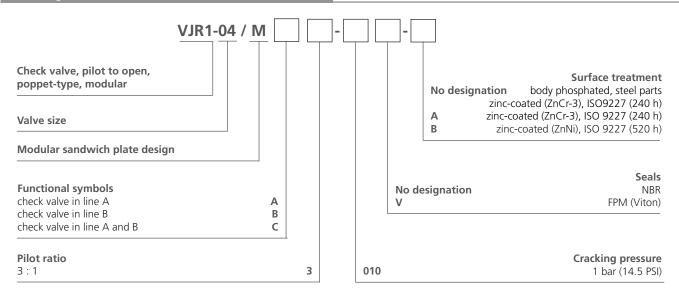
## VJR1-04/MC



- ① valve side
  - subplate or manifold side

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

# Ordering Code



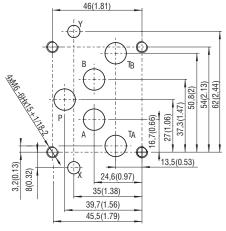
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# **VJR3-10/M**

Size 10 (D05) • Q<sub>max</sub> 140 l/min (37 GPM) • p<sub>max</sub> 350 bar (5100 PSI)

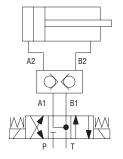


#### ISO 4401-05-04-0-05



Ports P, A, B, T - max. Ø11,2 mm (0.44 in)

## Typical circuit with pilot operated check valve

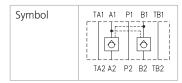


## **Technical Features**

- Pilot to open operated check valve, poppet type with subplate mounting surface acc. to ISO 4401, DIN 24340 (CETOP 05) standards
- > Sandwich plate design for use in vertical stacking assemblies
- > Sharp-edged ground steel seats for for dirt-tolerant performance
- > Leak-free closing and suitable for fast cycling with long life
- > High flow capacity
- Valve is fitted with decompression stage facilitating steady opening without pressure peaks
- In the standard version, the valve housing is phosphated and steel parts zinc coated for 240 h protection acc. to ISO 9227

## **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 a 6:1 pilot ratio. The check valve is also spring closed to secure holding position in static conditions without the load. The valve is offered with optional bias spring ranges for back-pressure control.



## **Technical Data**

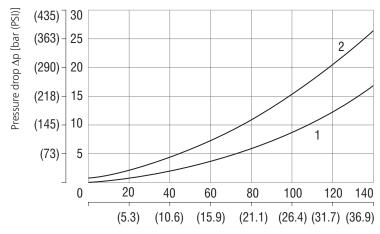
Spare parts

Valve size		10 (D05)
Max. flow	l/min (GPM)	140 (37)
Max. operating pressure	bar (PSI)	350 (5080)
Cracking pressure	bar (PSI)	2 (29)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)
Pilot ratio		6:1
Weight	kg (lbs)	2.2 (4.85)
	Datasheet	Type
General information	GI_0060	products and operating conditions
Mounting interface / tolerances	SMT_0019	Size 10

SP\_8010

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

## Pressure drop related to flow rate



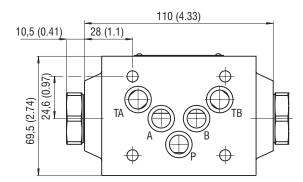
Flow	Q	[l/min	(GPM)]
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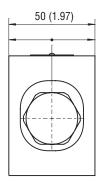
	Flov	Flow direction	
1	A1-	→A2 (B1→B2)	
2	A2-	→A1 (B2→B1)	

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## Model "C"



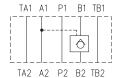


## **Functional symbols**

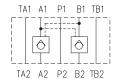
## VJR3-10/MA

# TA1 A1 P1 B1 TB1

#### VJR3-10/MB



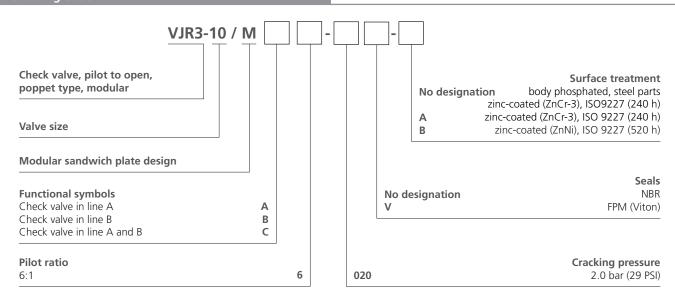
## VJR3-10/MC



- 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**



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