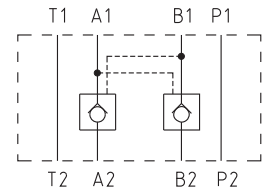


- Pilot operated check valve sandwich plate for use in stacking assemblies
- 3 models
  - double valve with check valves in lines A and B
  - single valve with check valve in line A
  - single valve with check valve in line B
- Installation dimensions to ISO 4401/DIN 24 340



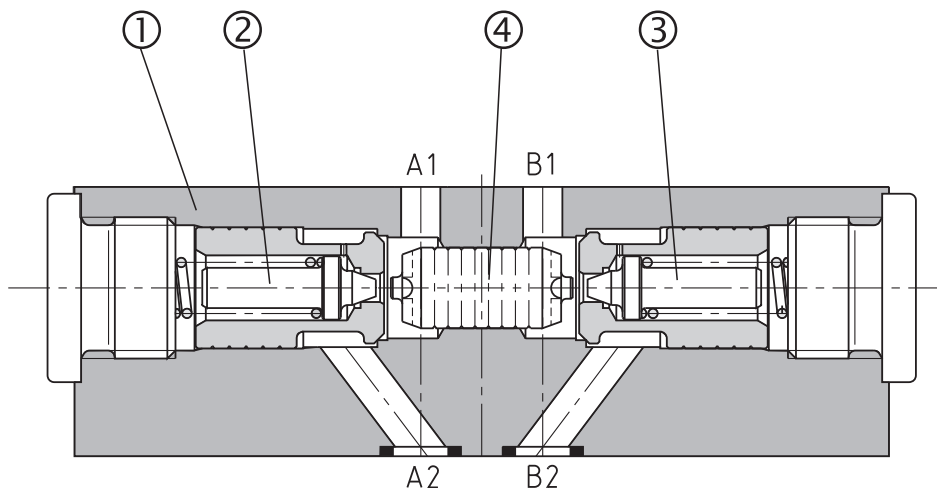
## Functional Description

A pilot operated check valve closes tightly the hydraulic circuit between the valve and the actuator. The valve consists of the steel housing (1), one or two check valves (2), (3) and the pilot piston (4). The main poppets of the check valves are provided with pilot poppets (5) which enable opening the check valve under pressure. When fluid flows from A1 to A2 it opens the check valve (2) and at the same time shifts the pilot piston (4) which opens by means of the pilot poppet (5) the check valve (3). When the pressure in channels A1 and B1 drops, the

springs push the poppets onto the seats and the circuit between the check valve and the actuator is closed under pressure.

To ensure that the check valves close tightly, a directional valve with functional symbol Y is to be used, which connects in its middle position the ports A1 and B1 with tank T (see the typical circuit diagram).

The valve housing (1) is phosphate coated, the surfaces of the other parts are zinc coated.



# Ordering Code

**VJR2-06/M**

**Pilot Operated Check Valve  
Sandwich Plate**

**Nominal size**

**Modular design**

no designation  
V

**Seals**  
NBR  
Viton

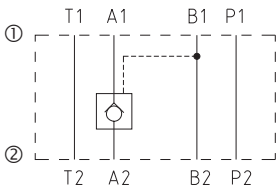
**A**  
**B**  
**C**

**Functional Symbols**  
check valve in line A  
check valve in line B  
check valves in lines A and B  
\* see the table Functional symbols

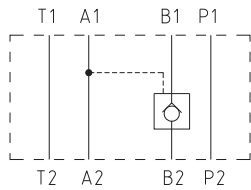
# Functional Symbols

**Arrangement of the check valves in the valve body**

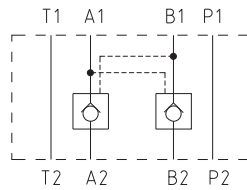
**VJR2-06/MA**



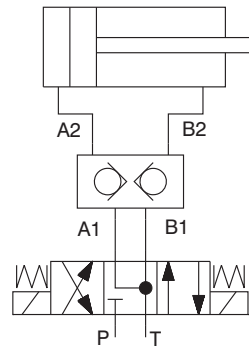
**VJR2-06/MB**



**VJR2-06/MC**



**Typical circuit with pilot operated check valve**



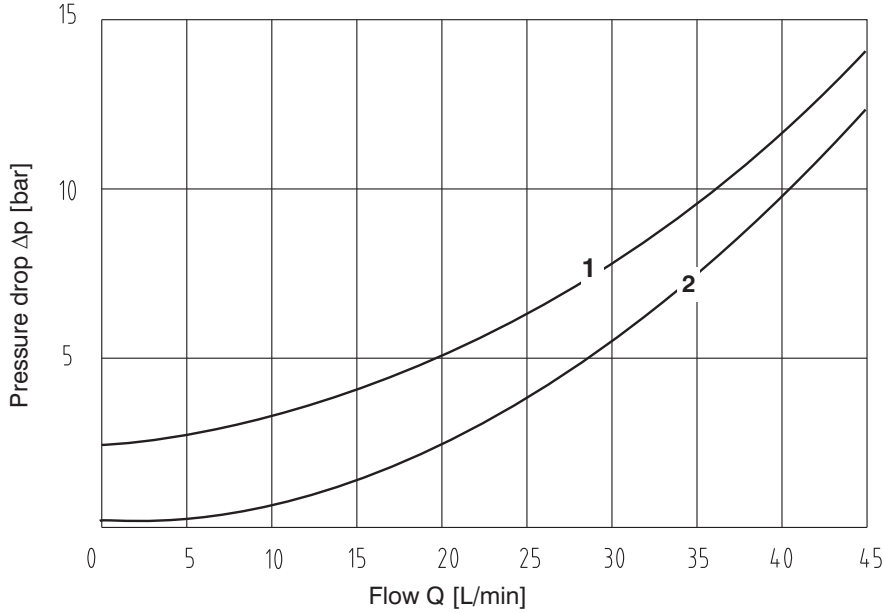
# Technical Data

Nominal size	mm	06
Maximum flow	L/min	45
Maximum operating pressure	bar	320
Cracking pressure	bar	2
Hydraulic fluid	Hydraulic oils of power classes (HL, HLP) to DIN 51524	
Fluid temperature range (NBR)	°C	-30 ... +100
Fluid temperature range (Viton)	°C	-20 ... +120
Viscosity range	mm <sup>2</sup> /s	20 ... 400
Maximum degree of fluid contamination	Class 21/18/15 to ISO 4406 (1999).	
Area ration (pilot piston / seat)	8,16 : 1	
Mounting position	optional	
Weight	kg	1,6

# Δp-Q Characteristics

Measured at  $v = 32 \text{ mm}^2/\text{s}$

Pressure drop  $\Delta p$  related to flow rate.

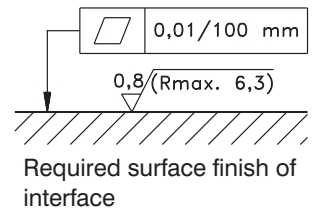
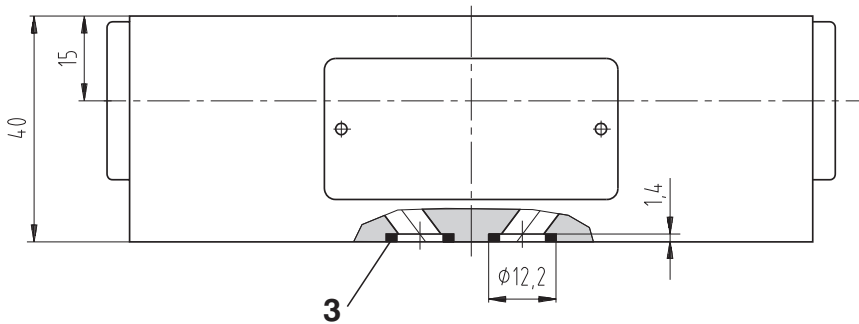
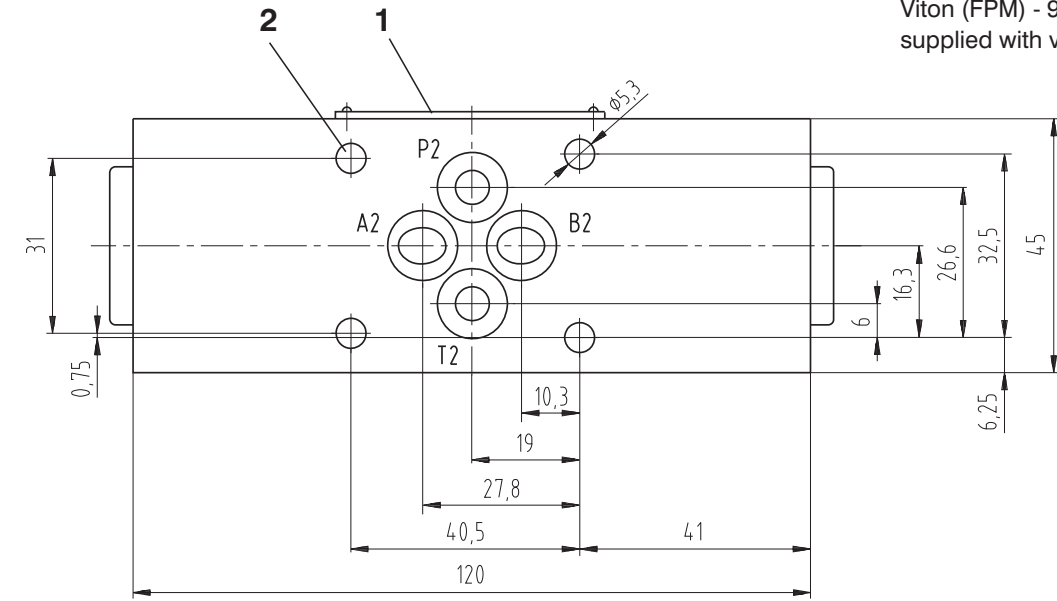


	Flow in direction
<b>1</b>	A1 → A2 (B1 → B2)
<b>2</b>	A2 → A1 (B2 → B1)

# Valve Dimensions

Dimensions in millimetres

- 1** Name plate
- 2** 4 mounting holes
- 3** Seal ring (4 pcs.):  
Standard (NBR) - 9.25 x 1.68  
Viton (FPM) - 9.25 x 1.78  
supplied with valve



## Spare Parts

### Seal kit

Type	Dimensions, quantity		Ordering number
	Square ring	O-ring	
Standard NBR 70	9,25 x 1,68 (4 pcs.)	-	535-0045
Viton	-	9,25 x 1,78 (4 pcs.)	535-0046

### Caution!

- The packing foil is recyclable.
- The protective plate can be returned to manufacturer.
- Tightening torque of the screws is 8.9 Nm.
- The technical information regarding the product presented in this catalogue is for descriptive purposes only. It should not be construed in any case as a guaranteed representation of the product properties in the sense of the law.

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