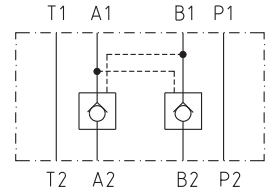


- Sandwich plate design for use in vertical stacking assemblies
- Three models:
 - leakfree closure in lines A and B
 - leakfree closure in line A
 - leakfree closure in line B
- Installation dimensions to ISO 4401 / DIN 24 340



Functional Description

Model 2RJV1-06 are pilot operated check valves in a sandwich plate design used to give leakfree closure of one or two actuator ports under pressure, even during long idle periods.

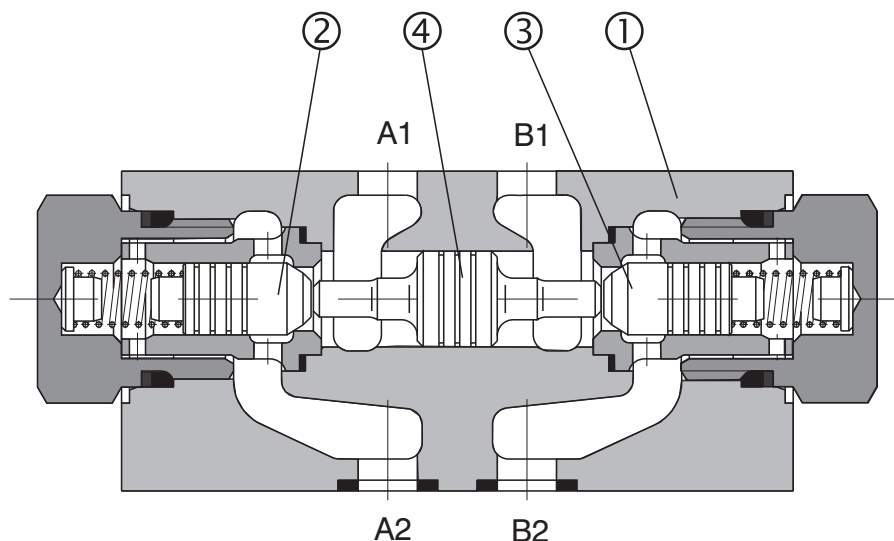
They basically consist of the cast iron housing (1), one or two check valves (2), (3) and the pilot piston (4).

When fluid flows from A1 (B1) to A2 (B2) it opens the check valve (2), (3) and at the same time shifts the pilot piston (4) to the right (left), thus opening the way B2 → B1 (A2 → A1). When the pressure drops (e. g. after shifting

the directional valve into its middle position), the springs push the poppets onto the seats and the circuit between the check valve and the cylinder is closed.

To ensure that the poppet valves seat properly, the actuator ports A2 and B2 of the directional valve should be connected to tank T in neutral position (functional symbol Y).

The basic surface treatment of the valve body is phosphate coated, whereas the surfaces of the other parts are zinc coated.



Ordering Code

2RJV1-06-M

**Pilot Operated Check Valve
Sandwich Plate**

no designation
V

Seals
NBR
Viton

Nominal size

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

Modular design

**FOR PREFERRED TYPES SEE BOLD TYPING IN ORDERING CODE
AND TABLE OF PREFERRED TYPES ON PAGE 4**

Functional Symbols

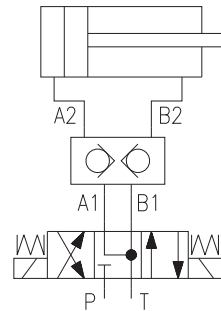
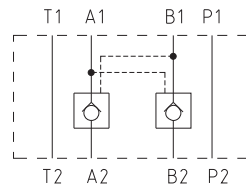
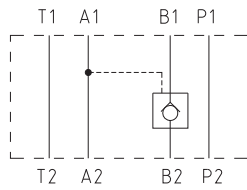
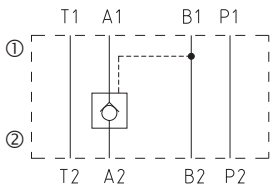
Arrangement of the check valves in the valve body

Typical circuit with pilot operated check valve

2RJV1-06-MA

2RJV1-06-MB

2RJV1-06-MC



- ① valve side
- ② subplate side

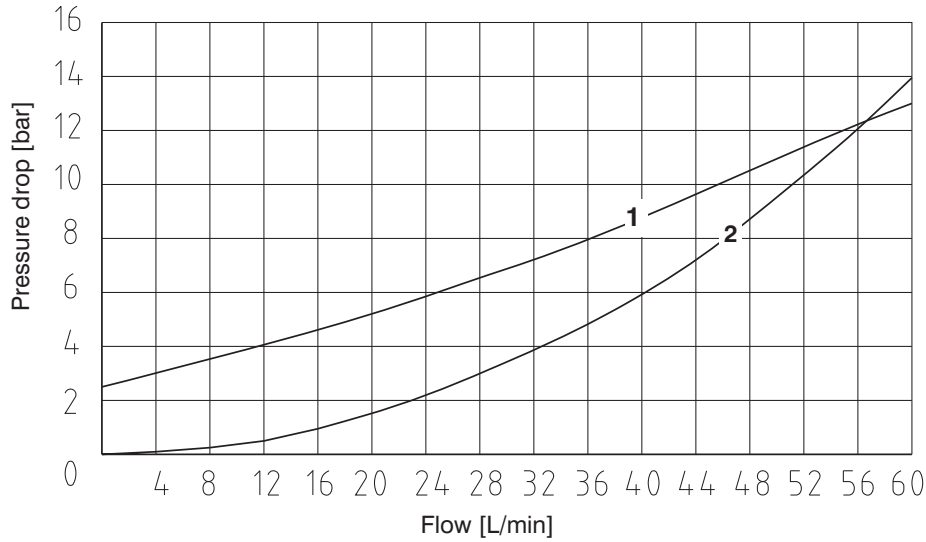
Technical Data

Nominal size	mm	06
Maximum flow	L/min	60
Max. operating pressure	bar	320
Cracking pressure	bar	see the Performance Curves
Hydraulic fluid		Hydraulic oils of power classes (HL, HLP) to DIN 51524
Fluid temperature range for (NBR)	°C	-30 ... +100
Fluid temperature range for (Viton)	°C	-20 ... +120
Viscosity range	mm ² /s	20 ... 400
Maximum degree of fluid contamination		Class 21/18/15 according to ISO 4406 (1999)
Area rations (pilot piston/poppet)		3 : 1
Mounting position		optional
Weight	kg	0.8

Δp-Q Characteristics

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

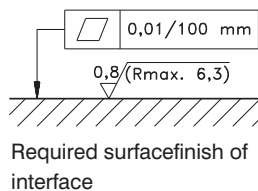
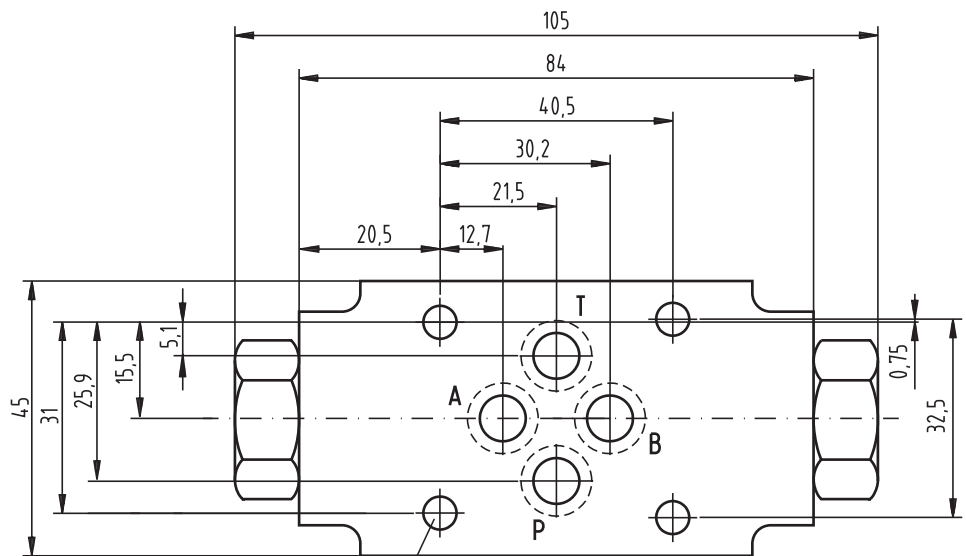
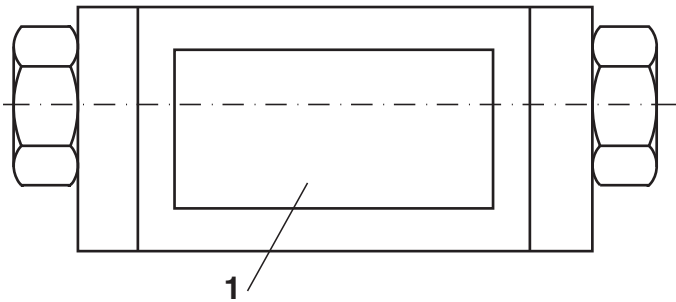
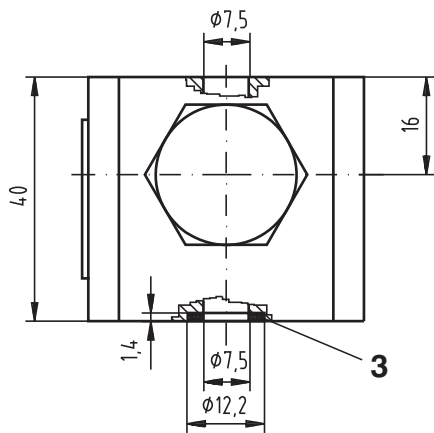
Pressure drop Δp related to flow rate.



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

Valve Dimensions

Dimensions in millimetres



- 1 Name plate
- 2 4 mounting through/holes
- 3 Square ring (9.25 x 1.68 NBR70 - 4 pcs.), supplied with each valve

Spare Parts

Seal kit

Type	Dimensions, quantity			Ordering number
	O-ring	Square ring	Back-up ring	
Standard NBR	14 x 1,78 NBR90 (2 pcs.)	9,25 x 1,68 NBR70 (4 pcs.)	17,83 x 22,19 x 1,14 (2 pcs.)	535-0093
	18 x 2,65 NBR70 (2 pcs.)	-	-	
Viton	9,25 x 1,78 (4 pcs.)	-	17,83 x 22,19 x 1,14 (2 pcs.)	535-0122
	14 x 1,78 (2 pcs.)	-	-	
	17,12 x 2,62 (2 pcs.)	-	-	

Preferred Types of Valves

Type	Ordering Number
2RJV1-06-MC	535-0021

Caution!

- The packing foil is recyclable.
- The protective plate can be returned to manufacturer.
- Studs bolt must be ordered separately.
Tightening torque of the bolts 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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