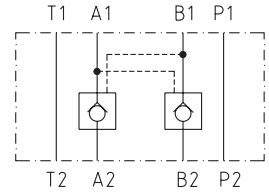


- Sandwich plate design for use in vertical stacking assemblies
- Three models:
 - leakfree closure in lines A and B
 - leakfree closure in line A
 - leakfree closure in line B
- Installation dimensions to ISO 4401 / DIN 24 340



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.

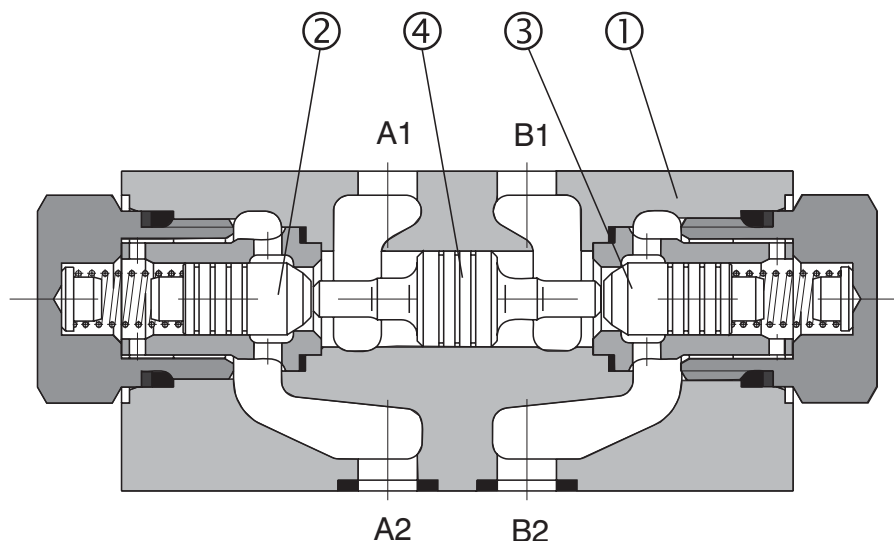
The valve consists of the cast iron housing (1), one or two check valves (2), (3) and the pilot piston (4).

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 (i. e. 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 valve body is phosphate coated, 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 **06 (D 03)**

Functional Symbols

Check valve in line A*

Check valve in line B*

Check valves in lines A and B*

* see the table Functional symbols

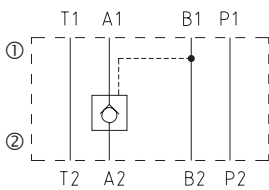
Modular design

A
B
C

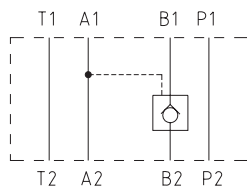
Functional Symbols

Arrangement of the check valves in the valve body

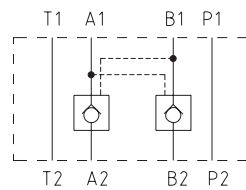
2RJV1-06-MA



2RJV1-06-MB

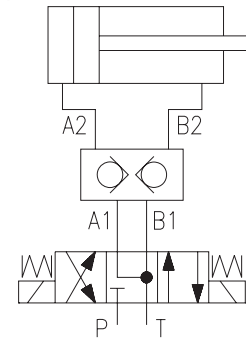


2RJV1-06-MC



- ① valve side
- ② subplate side

Typical circuit with pilot operated check valve



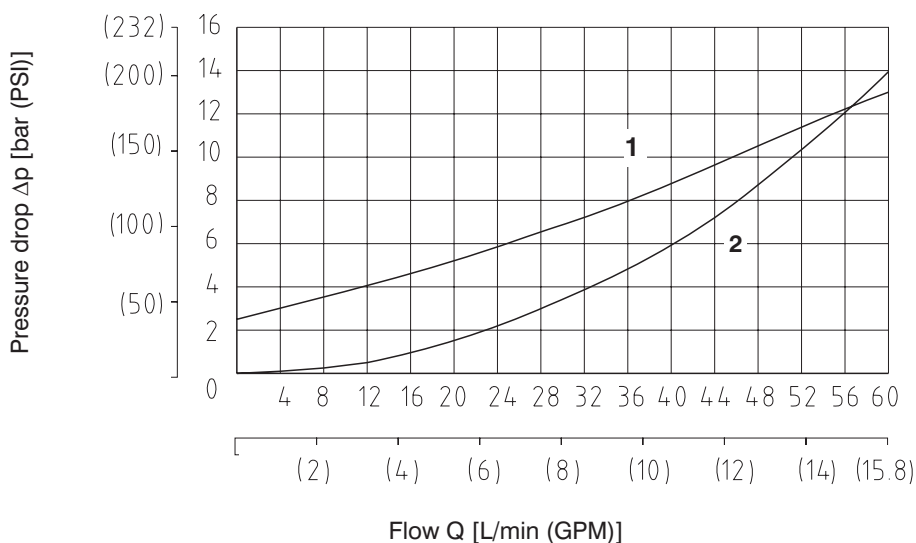
Technical Data

Valve size	mm (US)	06 (D 03)
Maximum flow	L/min (GPM)	60 (15.9)
Max. operating pressure	bar (PSI)	320 (4600)
Cracking pressure	bar (PSI)	see the Performance Curves
Hydraulic fluid		Hydraulic oils of power classes (HL, HLP) to DIN 51524
Fluid temperature range (NBR)	°C (°F)	-30 ... +100 (-22... +212)
Fluid temperature range (Viton)	°C (°F)	-20 ... +120 (-4... +248)
Viscosity range	mm ² /s (SUS)	20 ... 400 (98... 1840)
Maximum degree of fluid contamination		Class 21/18/15 to ISO 4406
Area ratio (pilot piston/poppet)		3 : 1
Mounting position		unrestricted
Weight	kg (lbs)	0,8 (1.8)

Δp-Q Characteristics

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

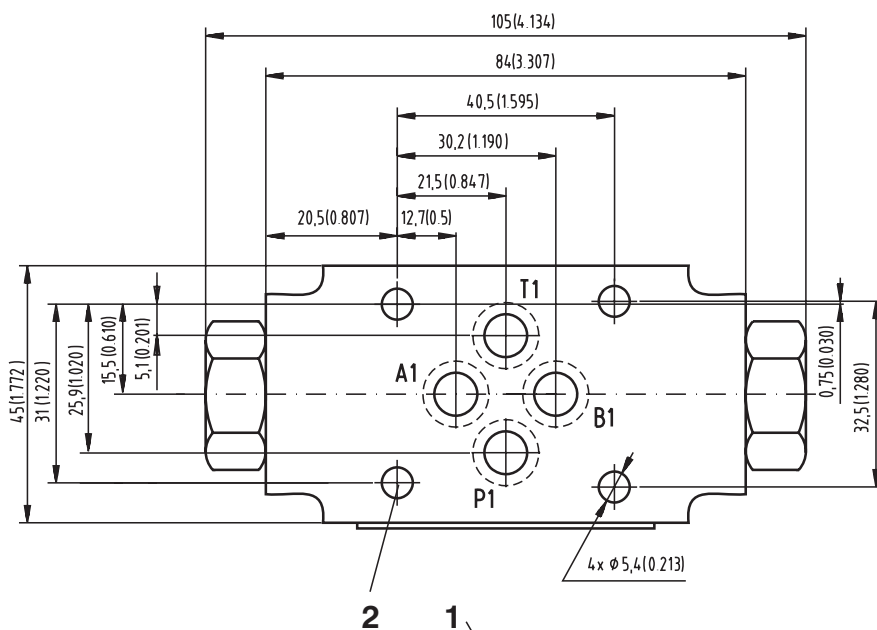
Pressure drop Δp related to flow rate.



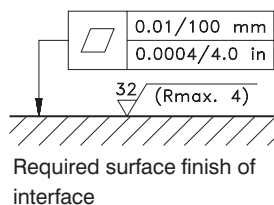
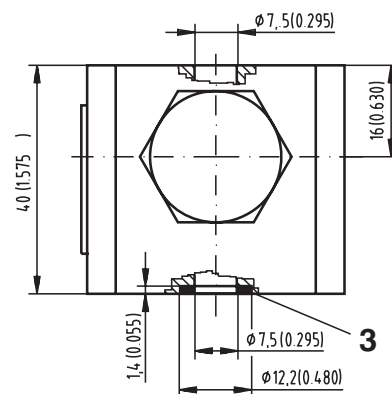
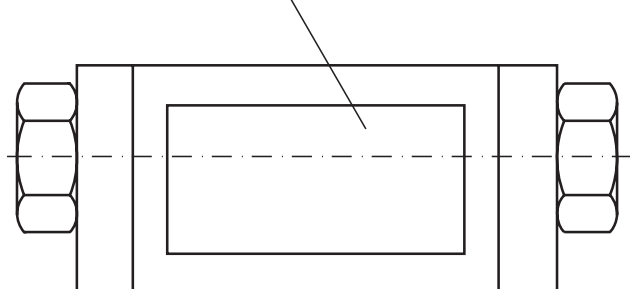
	Flow in direction
1	A1 → A2 (B1 → B2)
2	A2 → A1 (B2 → B1)

Valve Dimensions

Dimensions in millimeters (inches)



- Dimensions in millimeters:
- 1 Name plate
 - 2 4 mounting holes
 - 3 Square ring
9,25 x 1,68 NBR70 (4 pcs.)
supplied with valve



Spare Parts

Dimensions in millimeters

Seal kit

Type	Dimensions, quantity		Ordering number
	Square ring	O-ring	
Standard NBR 70	9,25 x 1,68 (4 pcs.)	-	28551800
Viton	-	9,25 x 1,78 (4 pcs.)	28551900

Caution!

- The plastic packaging is recyclable.
- Studs bolt must be ordered separately. For stud kits see data sheet HU 0030.
- Certified documentation is available per request.

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