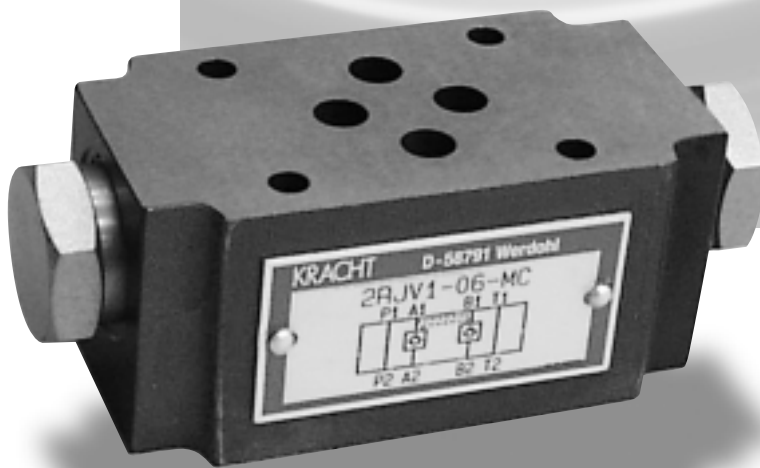
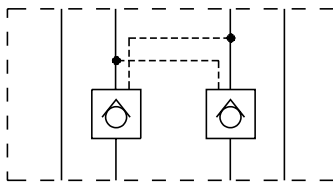


KRACHT



**Pilot operated  
check valves  
2RJV1-06**

# Pilot operated check valve 2RJV1-06



- Sandwich plate design for use in vertical stacking assemblies

- Three models:

- leakfree closure in line A
- leakfree closure in line B
- leakfree closure in line A and B

- Installation dimensions to ISO 4401-AB-03-4-A and DIN 24 340-A6

## Functional Description

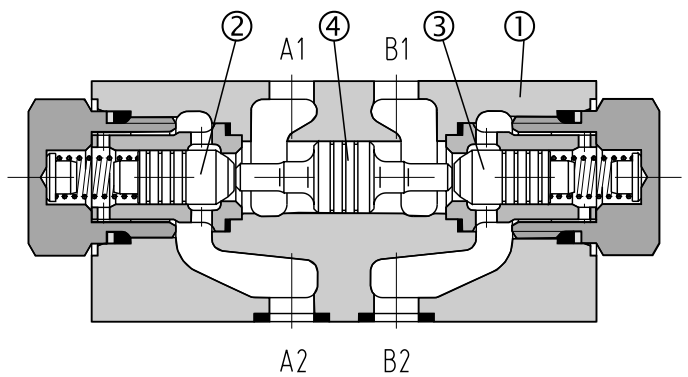
Model 2RJV1-06 are pilot operated check valves in a sandwich plate design used to give leakfree closure of one or two actuator ports under pressure, even during long idle periods. They basically consist of the cast iron housing (1), one or two check valves (2), (3) and the pilot piston (4). When the 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 valve seat properly, the actuator ports A2 and B2 of the directional valve should be connected to 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

EXAMPLE

**2RJV1-06-M**

**Pilot operated check valve**

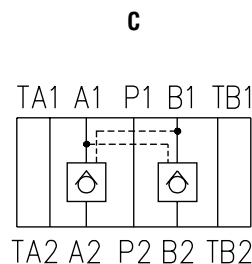
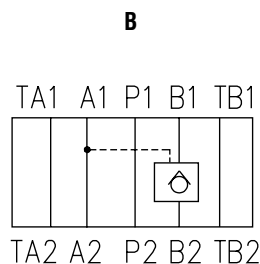
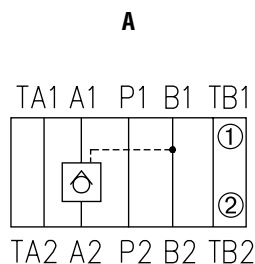
Norminal size

**Sandwich plate design**

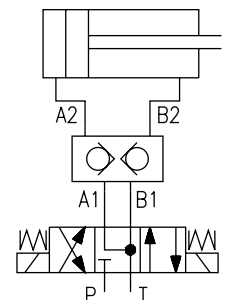
**Sealing**

no design. Standard (NBR)  
V FKM

### Functional symbols



**Typical circuit**

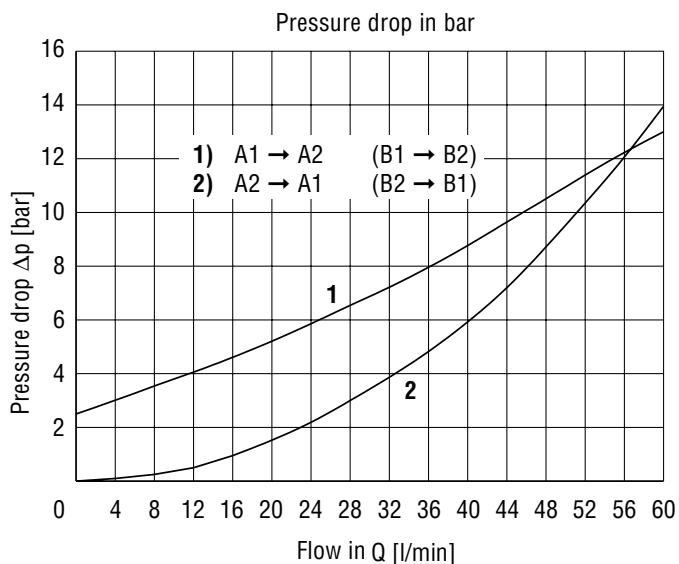


① valve side    ② subplate side

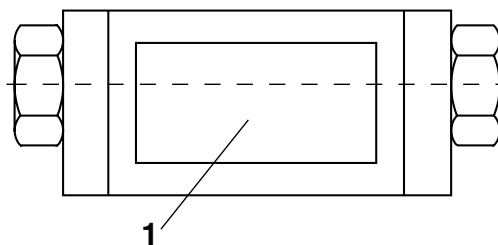
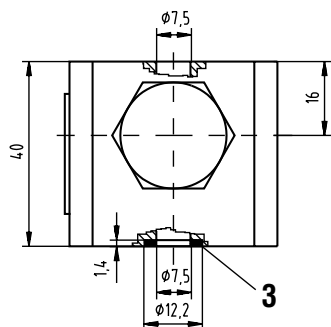
## Technical Data

Nominal size:	6 mm
Maximal flow rate:	60 l/min
Max. operating pressure:	320 bar
Cracking pressure:	see the Performance Curves
Hydraulic fluid:	Hydraulic oils of power classes HM, HV, to GETOP RP 91 H in viscosity classes ISO VG 32, 46 and 68.
Fluid temperature range:	-30 ... +80 °C
Viscosity range:	10 ... 400 mm <sup>2</sup> /s <sup>-1</sup>
Maximum degree of fluid contamination:	Class 18/15 according to ISO 4406. Therefore we recommend a filter with retention rate $\beta_{10} \geq 75$ .
Area ratios (pilot piston/poppet):	3
Weight:	0.8 kg (1.8 lb)
Mounting position:	optional

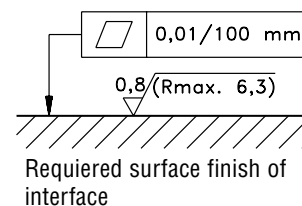
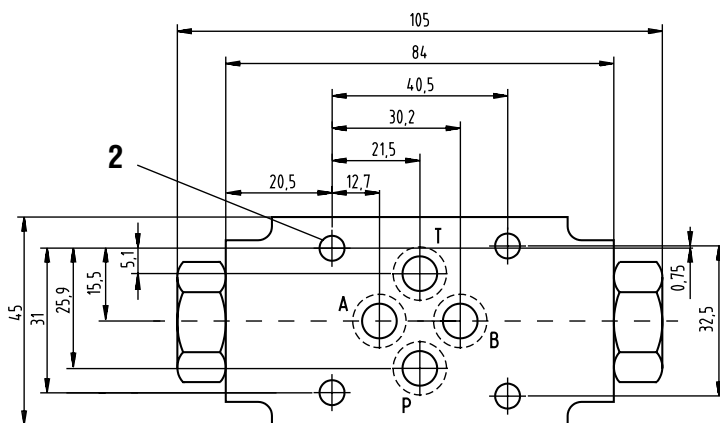
## Pressure losses measured at $v = 35 \text{ mm}^2/\text{s}$ and $t = 40 \text{ °C}$



## Valve Dimensions Dimensions in mm (in brackets)



- 1 Name plate
- 2 4 mounting through-holes  $\varnothing 5,4$
- 3 Square ring 012 (4 pcs) (9,25 mm x 1,68 mm NBR, and 9,25 x 1,78 FKM, supplied with each valve)



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Transfer pumps for lubricating oil supply equipment, low pressure filling and feed systems, dosing and mixing systems.

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Gear and turbine flow meters and electronics for volume and flow metering technology in hydraulics, processing and laquering technology.

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With our decades of experience, we are at your side, world-wide, for the professional mastery of specific applications and complete solutions in hydraulics and process technology.



2RJV1-06/e/01.05