

1 General

Pilot operated spring-loaded conical seat valve in cartridge form.

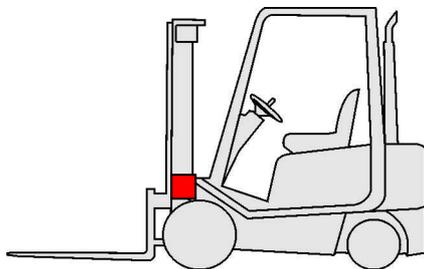
Hardened components (seat and cone) guarantees no oil leakage in neutral position and longer life-spans.

The valve offers security against unintended lowering of load if a feed-line breaks.

1.1 Applications

For sensitive support cylinder movements and similar applications up to 500 bar.

1.2 Mounting Location (Recommendation)



The check valve cartridge is mounted in a block construction and can be installed anywhere in the machine.

2 Function

Neutral position: Load pressure on A1 or B1 is locked leakage-free against A or B.

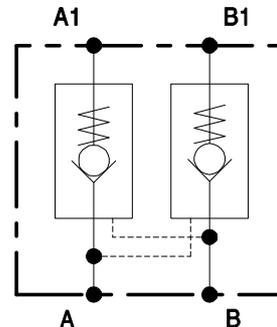
Inlet function: Through a check valve in the cylinder

Hydraulic unlocking: On pressure increase in A or B the connection first is partially opened via a pilot check valve and finally completely opened with a main spool. The through-flow connection from A₁ to A, or B₁ to B is guaranteed.

3 Characteristics

- Leakage-free support cylinder protection
- Subsequent installation possible
- Flat construction

4 Hydraulic Diagram



Connections:

A, B Inlet
A1, B1 Cylinderport

5 Technical Data

5.1 General

Installation position:	Any
Weight:	3.2 kg
Maximum input pressure:	500 bar
Connections:	
A, A1, B, B1	G 3/8
Opening ratio:	9 : 1
Check valve function:	A to A ₁ ; B to B ₁
Leakage rate:	Q _{max} = 1 cm ³ /h (= 16 drops/h)

5.2 Hydraulics

Input volume flow:	70 l/min
Hydraulic fluid:	Mineral oil (HL, HLP) conforming with DIN 51524, other fluids upon request
Hydraulic fluid temperature range:	-20 – +80 °C
Environmental temperature:	< +50 °C
Viscosity range:	2.8 – 500 mm ² /s
Contamination grade:	Filtering conforming with NAS 1638, class 9, with minimum retention rate β ₁₀ ≥ 75

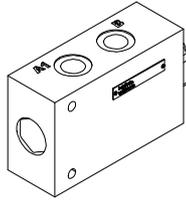
5.3 Standards

The following standards are to be observed because of the surface temperatures on the check valve:

- EN 563
Temperatures on surfaces that can be touched.
- EN 982
Safety-technical requirements for fluid-technical systems and their components.

Check Valve Block double unlockable

421.082.406.9



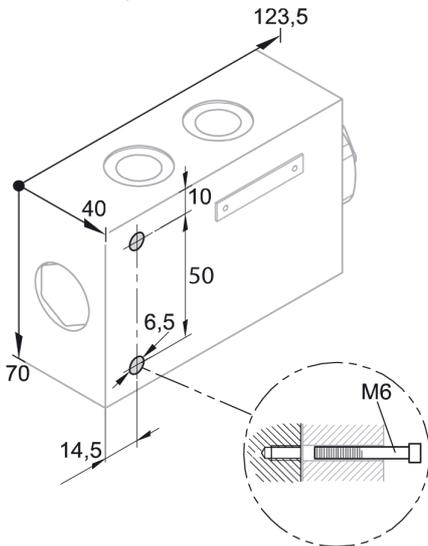
6 Installation

General Information

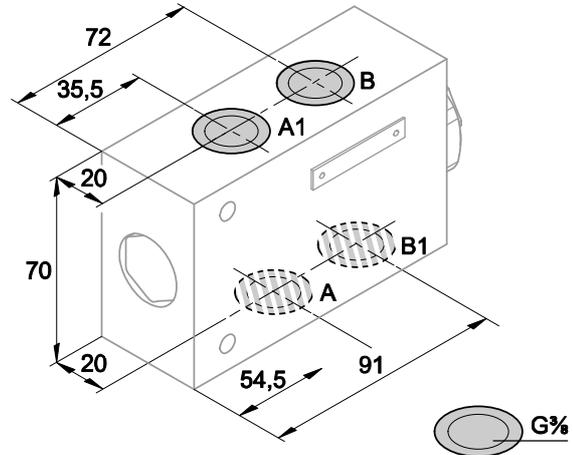
- Observe all installation and safety information of the construction machine manufacturer.
- Only technically permitted changes are to be made on the construction machine.
- The user has to ensure that the device is suitable for the respective application.
- Application exclusively for the range of application specified by the manufacturer.
- Before installation or deinstallation, the hydraulic system is to be depressurized.
- Settings are to be made by qualified personnel only.
- Opening is only to be performed with the approval of the manufacturer, otherwise the warranty is invalidated.
- No responsibility is taken for the correctness of these installation recommendations, the functionality and the technical details of the construction machine must be checked.

6.1 Installation

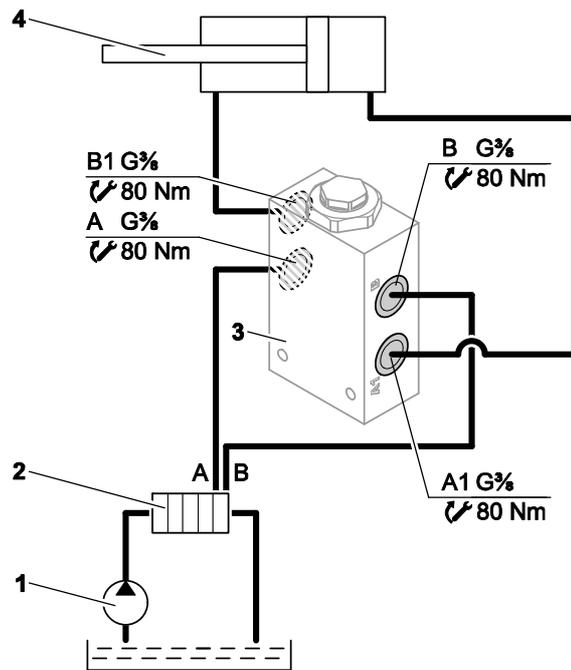
The check valve is built directly in the inlet and outlet side of the cylinder.



6.2 Connection Dimensions



6.3 Connection Recommendations



- 1 Pump
- 2 Main control
- 3 Check valve cartridge
- 4 Cylinder