

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 pilot-operated check valve cartridge is built directly into the cylinder or used in a valve block.

2 Function

Neutral position: Load pressure on A1 is blocked from A, leakage free.

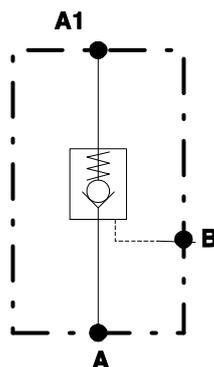
Inlet function: Through a check valve in the cylinder

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

3 Characteristics

- Leakage-free support cylinder protection

4 Hydraulic Diagram



Connections:

A	Inlet
A1	Cylinderport
B	Piloting port

5 Technical Data

5.1 General

Installation position:	Any
Weight:	0.4 kg
Maximum input pressure:	500 bar
Connections:	Step drill
Opening ratio:	9 : 1
Check valve function:	A to A 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.

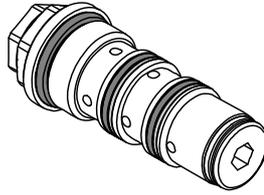
6 Installation

General Information

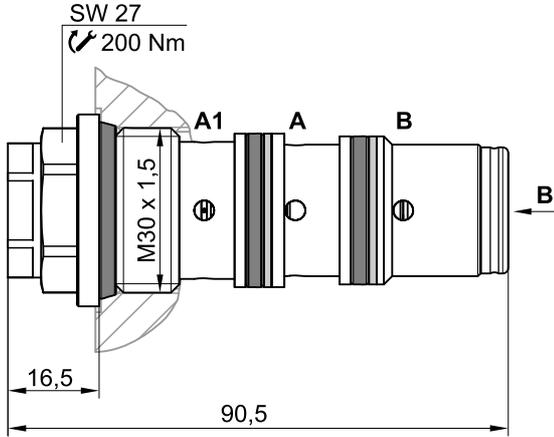
- Observe all installation and safety information of the construction machine manufacturer.
- Only technically permitted changes are to be made on the construction machine.
- The user has to ensure that the device is suitable for the respective application.
- Application exclusively for the range of 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.

Check valve cartridge
Cartridge, single unlockable

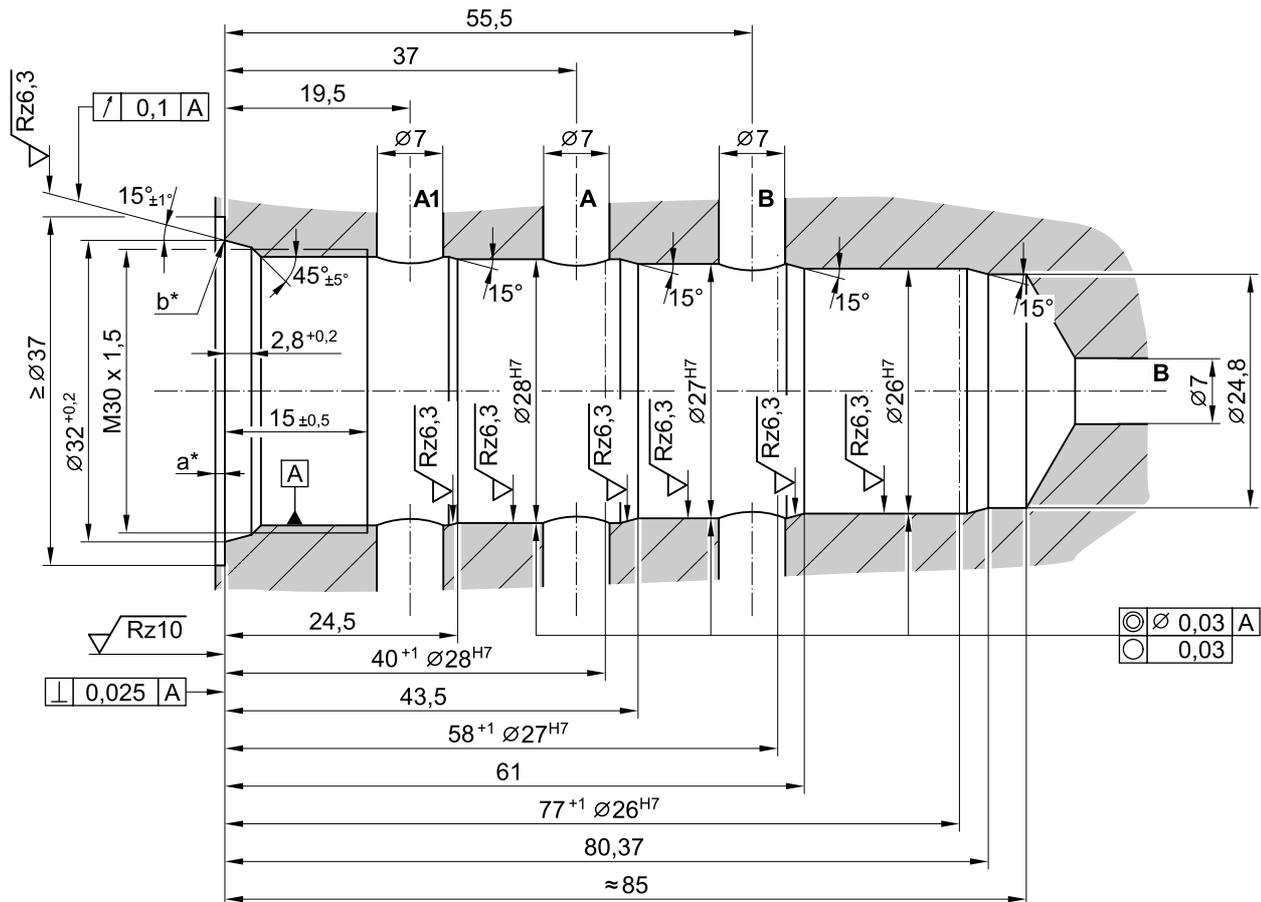
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6.1 Installation



6.2 Connection Dimensions



* a = Sink depth, b = Edge broken