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## Throttling Check Valve SAE 3/4", adjustable

## 1 Product description

WESSEL throttling check valves are used to regulate the speed of cylinders.

#### 1.1 Applications

Throttling check valves are flanged directly on the cylinder connection and are adjustable depending on the application (speed regulation or preventing cavitation).

#### 1.2 Mounting Location (Recommendation)

WESSEL throttling check valves are flanged directly on the cylinder side to be restricted.

### 2 Funktion

The oil is fed to the cylinder via a check valve. (A-B) The speed regulation from B to A is performed via an adjusting spindle. Depending on the spindle setting, radial bore holes are released or closed and thus achieve the desired restriction of the volume flow. A permanently open bypass orifice prevents the throttling check valve from closing completely.

In the version with an additional nozzle, it is ensured that no pressure can be clamped at the output B.

## 2.1 Eigenschaften

- Low pressure loss during lifting
- Adjustable restriction during lowering
- Compact construction
- Direct installation on the cylinder

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## 3 Technical data

Criterion	Units	Value
Α		SAE ¾", check valve function
В		SAE ¾", throttled return
Max. operating pressure	bar	420 bar
Adjustable volume flow for the additional consumer		adjustable
Max. volume flow		250
Weight	kg	2,24
Installation position		any
Hydraulic fluid		Mineral oil (HL, HLP) conforming with DIN 51524, other fluids upon request
Hydraulic fluid temperature range	°C	-20 - +80
Ambient temperature:	°C	< +50
Viscosity range	mm²/s	2,8 – 500
Contamination grade		Filtering conforming with NAS 1638, class 9, with minimum retention rate β10≥75

## 4 Installation

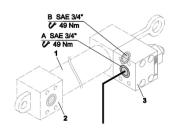
#### 4.1 General Information

- 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.

#### 4.2 Connection Recommendations

CAREFUL: Hydraulic hoses are not to come into contact with the throttling check valve because otherwise they are subject to thermal damaging. Ensure that standards EN 563 and EN 982 are observed.

- 1 Cylinder
- 2 Supply, ground side
- 3 Throttling check valve, rod side



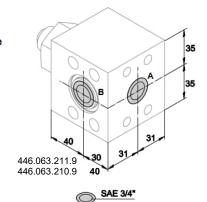


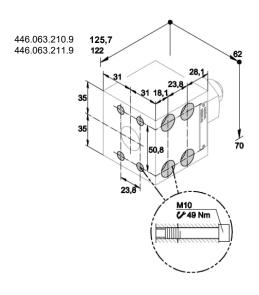
## Throttling Check Valve SAE 3/4", adjustable

#### 4.3 Installation

- Bolt onto cylinder with 4 clamp bolts.
- · Seals and flange surface must not be damaged.

#### 4.4 Anschlussmaße





#### 4.5 Settings volume flow

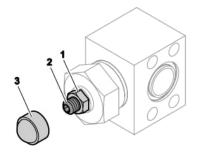
ATTENTION: The throttling check valve heats up during operation. Contact with the unit can cause burns.

- a. Remove the protective cap (3).
- b. Undo the counter-nut (1).
- c. Volume flow

Increase: Turn the adjustment spindle (2) to the left to the desired restrictor position.

**Decrease:** Turn the adjustment spindle (2) to the right to the desired restrictor position.

- d. Tighten the counter nut (2).
- e. Position the protective cap (3).



## 5 Hinweise, Normen und Sicherheitsanforderungen

#### 5.1 General remarks

- The views in drawings are shown in accordance with the European normal projection variant
- A comma (, ) is used as a decimal point in drawings
- All dimensions are given in mm



#### 5.2 Standards

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

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