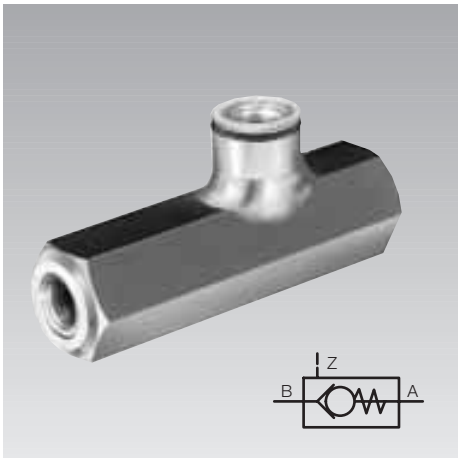
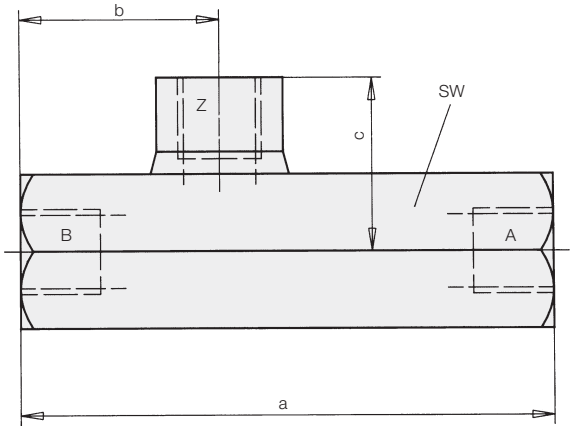
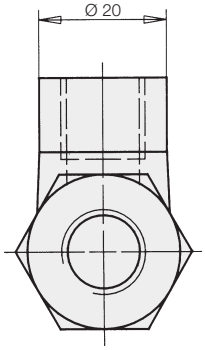
# Check Valve
## pilot operated, max. operating pressure 500 bar



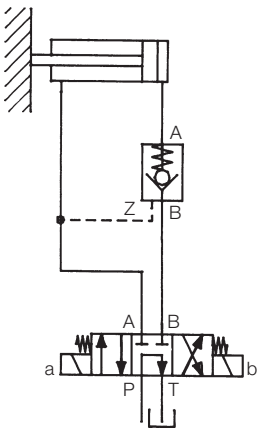




### Description

These check valves are designed in accordance with DIN ISO 1219. According to this definition this type of valve is a locking valve. The flow B → A is free. The flow A → B is locked, but it can be hydraulically unlocked by pressurising control port Z.

### Application

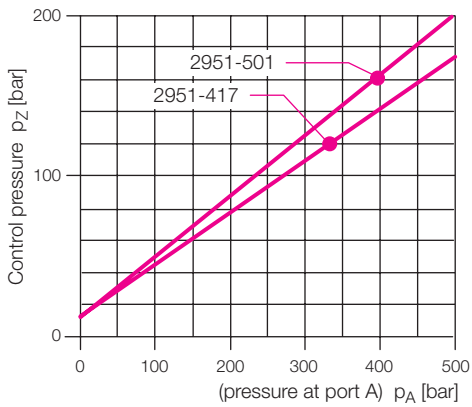
Locking of leakage free hydraulic cylinders, i.e. for maintaining the pressure and (or) the position, can also be used in combination with non-leakage free directional control valves.



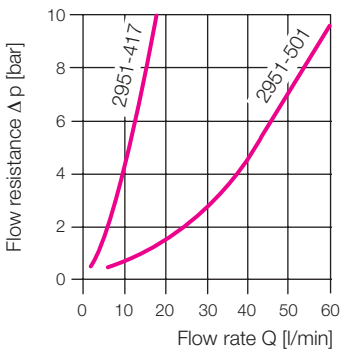

Pilot-operated version
see page 2
data sheet D 8.755

| Type | Spring-loaded ball-seat valve, leakage-free | | |
|---|---|---|---|
| Installation | by tube lines | | |
| Connection size A, B | | G 1/4 | G 1/2 |
| Control port Z | | G 1/4 | G 1/4 |
| Control volume | [cm³] | 0.15 | 0.40 |
| Control pressure pz ≥ | [bar] | 0.32 $p_A$ +12 | 0.38 $p_A$ +12 |
| Max. operating pressure | [bar] | 500 | 500 |
| Max. flow rate | [l/min] | 15 | 55 |
| a | [mm] | 84 | 100 |
| b | [mm] | 31.5 | 36.5 |
| c | [mm] | 27 | 31 |
| SW | [mm] | 24 | 32 |
| Weight | [kg] | 0.4 | 0.6 |
| **Part-no.** | | **2951-417** | **2951-501** |

Control pressure $p_Z$ for unlocking
[$p_B$ = 0 bar]




Δ p-Q curves for cinematic viscosity
valid for flow from B → A
and for unlocked return line A → B




Oil viscosity during measurement
60 mm²/s

### Important note

This pilot-operated check valve is not suitable for locking of double-acting swing clamps (pull-type cylinders). Due to the unfavourable surface ratio of these elements, the control pressure is not sufficient for unlocking and dangerous pressure intensifications occur. Please contact us!

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