

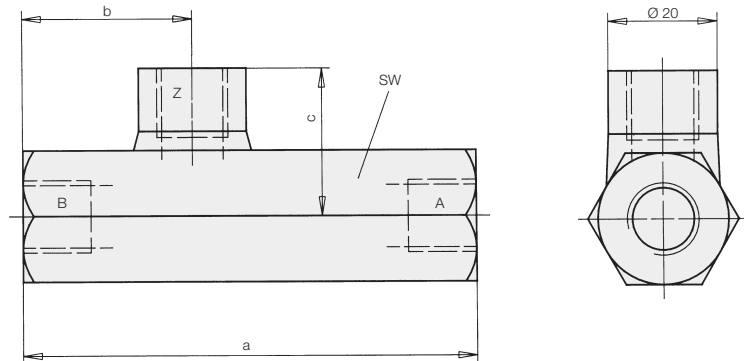
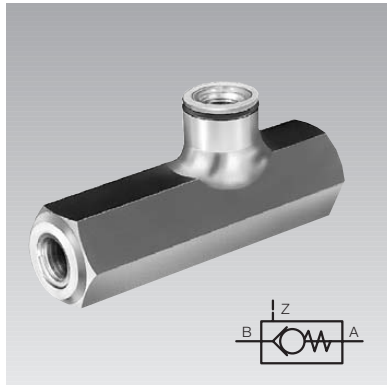


ROEMHELD

Issue 6-01 E

C 2.9511

Check Valve pilot operated, max. operating pressure 500 bar

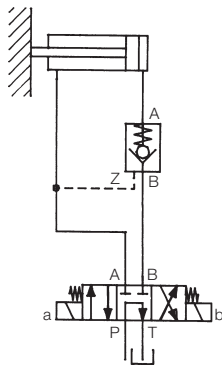


Description

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.

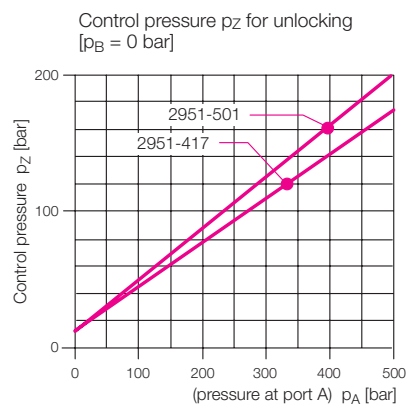
Application

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.

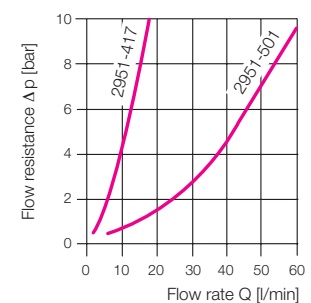


Pilot-operated version
see page 2
data sheet D 8.755

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	[cm ³]	0.15	0.40
Control pressure $p_z \geq$	[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	



Δp -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!

Subject to change without notice