

Lock valve Spring-loaded non-return valve

 Q_{max} = 25 l/min, p_{max} = 350 bar

ball type

Type series: RKVC-06-...



- Slip-in cartridge valve
- Exceptionally high Qmax with extremely low Δp
- Virtually leak-proof in closed condition
- No-flow direction can be reversed
- Can be used as a screw-in valve in conjunction with an ESH threaded mounting sleeve
- Can be used as right-angle valve

Description

The RKVC series spherical poppet-type check valve is characterized by very high pressure load capacity and extremely low Δp . The no-flow direction can be reversed by inverting the valve cartridge in its cavity. The push-in RKVC cartridge valve can be used in conjunction with an ESH threaded mounting sleeve like a screw-in valve.

The spring-loaded poppet-type check valve very robust, extremely leak-proof and insensitive to contamination. Valve seat, poppet and body are hardened. The properties of the sealing faces have been enhanced by precision mechanical processing. The valve is available in nominal sizes 04, 06, 08, 10, 16, 25, 32 and 40.

Symbol



Technical data

General characteristics	Description, value, unit
Function group	Lock valve
Function	Spring-loaded non-return valve
Design	Slip-in cartridge valve
Characteristic	ball type
Construction size	nominal size 06
Thread size	G 1/4"



General characteristics	Description, value, unit
Mounting attitude	unrestricted
Weight	0.007 kg

Hydraulic characteristics	Description, value, unit
Maximum operating pressure	350 bar
Maximum flow rate	25 l/min
Nominal flow rate	15 l/min
Flow direction	see symbol
Hydraulic fluid	HL and HLP mineral oil according to DIN 51 524; other fluids on request!
Minimum fluid temperature	- 30 °C
Maximum fluid temperature	+ 80 °C
Viscosity range	10 500 mm ² /s (cSt)
Minimum fluid cleanliness (cleanlineless class according to ISO 4406:1999)	class 20/18/15
Opening pressure	0.2 / 0.5 / 1 / 2 bar



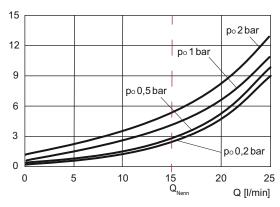
NOTE!

For other values please contact Bucher Hydraulics.

Performance graphs

measured with oil viscosity 33.0 mm²/s (cSt)

 Δp = f (Q) Pressure drop-flow rate characteristic Δp [bar]

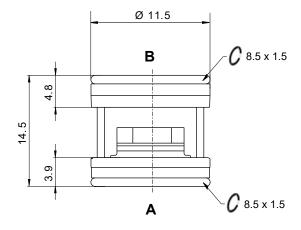




Dimensions and sectional view

Beispiel für die Masseinheit: Example for the dimensional units:

14.5 = 14.5 mm millimeter



Die angegebenen Maße gelten für den eingebauten Zustand / The dimensions specified apply to the mounted state. Für Bohrungsform CEG-01, CEG-02, CEG-03 und Einschraubhülse ESH For cavity CEG-01, CEG-02, CEG-03 and threaded mounting sleeve ESH

Installation information



NOTE!

The tightening torque must be observed, when installing with a threaded mounting sleeve ESH. The value can be found in the chapter dimensions and sectional view. Orifices or nozzles are to be placed after the check valve. If this is not possible, a right-angled bore must be designated between the check valve and the nozzle. (see data sheet 170-P-059000). Recommendation: before installing the valve, fit the O-ring in the cavity.



ATTENTION!

It must be ensured that the valve is firmly seated on the sealing surface during installation and does not protrude beyond the installation space or exceed the tolerance H.

Application Note



NOTE!

The maximum operating pressure must not be exceeded even when pressure peaks occur. In applications such as accumulator circuits, where sudden pressure can be applied to the valve in the free- flow direction, ensure that the specified flow ratings are not exceeded. Buyers bear the sole responsibility for ensuring that the valve is suitable for their applications and must be substantiated by trials or testing, if necessary.

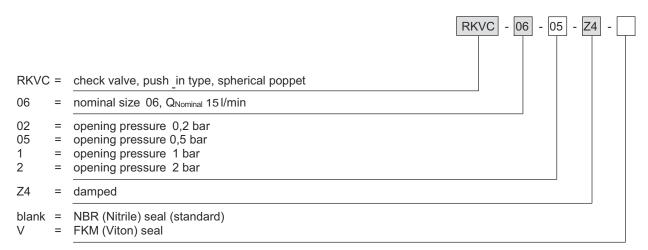


ATTENTION!

The valves are only suitable for pressure relief in the opening direction to a limited extent. (if necessary, please consult Bucher Hydraulics).



Ordering code



Related data sheets

Reference	Description
170-P-059000	Using nozzles or orifices before a Check Valve
170-P-060111	Threaded mounting sleeve ESH-G-08
170-P-080091	Cavity CEG-01-06
170-P-080101	Cavity CEG-02-06
170-P-080111	Cavity CEG-03-06

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