

Lock valve Spring-loaded non-return valve

Q_{max} = 60 l/min, p_{max} = 350 bar ball type Type series: RVVL-G-10-...

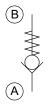


- Pipe line mounting valve
- Compact construction
- High pressure rating
- Very small pressure rise
- High opening pressures - Usable as preload valve

Description

The RVVL series check valve is specially designed for line-mounting installations. It is characterized by high opening pressures and incredibly low pressure rise. This is reflected in the flat performance graph. The valve can be used as a preload valve. The spring-loaded spherical poppet-type check valve is very robust, extremely leak-proof, and insensitive to contamination. The valve seat, poppet, and body are hardened. The

Symbol



properties of the sealing faces have been enhanced by precision mechanical processing. The valves prevent flow in the screw-in direction (B to A) and open in the opposite direction. The check valve is supplied completely mounted in a hexagonal body. The valve is available in nominal sizes 04, 06, 08, 10, 16, 25, 32 and 40.



Technical data

General characteristics	Description, value, unit
Function group	Lock valve
Function	Spring-loaded non-return valve
Design	Pipe line mounting valve
Characteristic	ball type
Construction size	nominal size 10
Thread size	G 1/2"
Mounting attitude	unrestricted
Weight	0.32 kg
Tightening torque steel	30 Nm

Hydraulic characteristics	Description, value, unit
Maximum operating pressure	350 bar
Maximum flow rate	60 l/min
Nominal flow rate	50 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 mm²/s (cSt)
Minimum fluid cleanliness (cleanlineless class according to ISO 4406:1999)	class 20/18/15
Opening pressure	4 / 6 / 8 / 10 / 12 bar



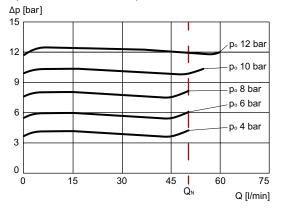
NOTE!

For other values please contact Bucher Hydraulics.

Performance graphs

measured with oil viscosity 33.0 mm²/s (cSt)

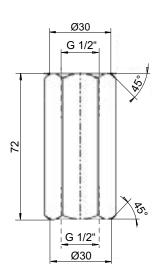
 Δp = f (Q) Pressure drop-flow rate characteristic

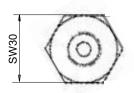




Dimensions and sectional view

RVVL-G-10 check valve for line-mounting installations





Installation information



NOTE!

When fitting the pipe line mounting valve, use the specified tightening torque. The value can be found in the chapter technical data.

Application Notes



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

		RVV L - G - 10 - 06 -
RVV	=	Preload check valve, spherical poppet design
L	=	Pipe line mounting valve
G	=	Whitworth pipe thread G1/2"
10	=	Nominal size 10, Q _{nominal} 50 l/min
4 6 8 10 12	= = = =	Opening pressure4 barOpening pressure6 barOpening pressure8 barOpening pressure10 barOpening pressure12 bar
blank V	=	NBR (Nitrile) seal (standard) FKM (Viton) seal

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