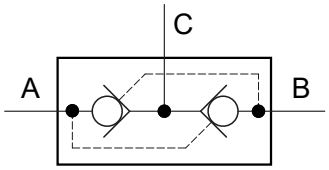
Lock valve
Inverse shuttle valve

Q_{max} = 12 l/min, p_{max} = 220 bar
Ball type,
Type series: IWRV-G-06-...

- Screw-in cartridge valve for cavity IRG-01-06
- Inverse shuttle valve
- Shuttle valve with inverse function
- The lower pressure is passed through, enabling flow at the lower pressure

Symbol



Description

The 3-way inverse shuttle valve blocks either inlet A or B. Port C is always connected to the lower pressure. The balls are mechanically linked, ensuring that simultaneous closing of both balls is prevented.
The ball-type shuttle valve design is highly robust, very leak-tight, and insensitive to contamination. The valve seat, ball, and housing are hardened. Sealing of the valve in the installation bore is achieved by a metallic sealing edge and an O-ring. The valve is available in nominal size 06.

Technical data

General characteristics	Description, value, unit
Function group	lock valve
Function	inverse shuttle valve
Design	screw-in cartridge valve
Characteristic	ball type
Construction size	nominal size 06
Thread size	G 1/4”
Mounting attitude	unrestricted
Weight	0.021 kg
Cavity acc. factory standard	IRG-01-06
Tightening torque steel	20 Nm

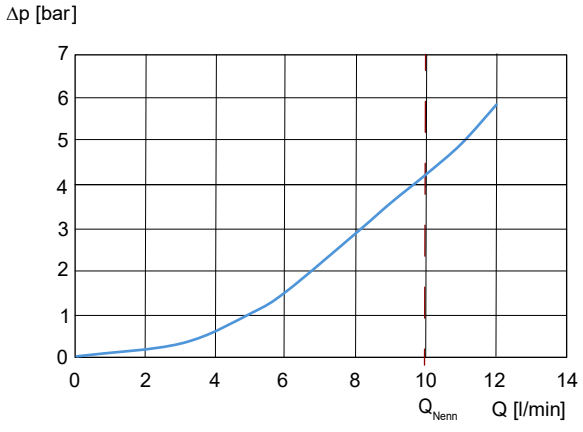
Hydraulic characteristics	Description, value, unit
Maximum operating pressure	220 bar
Maximum flow rate	12 l/min
Nominal flow rate	10 l/min
Flow direction	see symbol
Hydraulic fluid	HL and HLP mineral oil according to DIN 51 524; other fluids on request!
Minimum fluid temperature	- 20 °C
Maximum fluid temperature	+ 110 °C
Viscosity range	10 ... 500 mm^2/s (cSt)
Minimum fluid cleanliness (cleanlineless class according to ISO 4406:1999)	class 20/18/15

NOTE!
For other values please contact Bucher Hydraulics.

Performance graphs

measured with oil viscosity 33.0 mm^2/s (cSt)

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



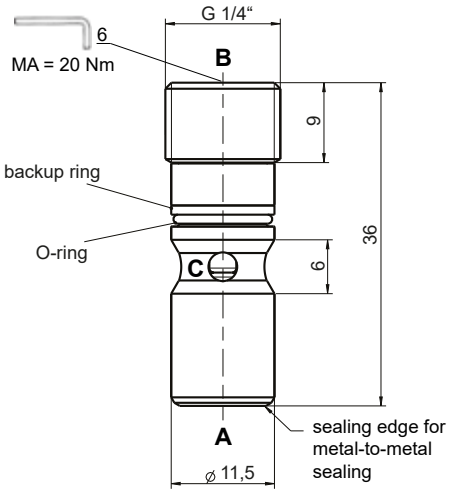
Installation

IWRV-G-06

The dimensions specified apply to the mounted state.

Beispiel für die Masseinheit:
Example for the dimensional units:

36 = 36 mm millimeter



For cavity IRG-01-06

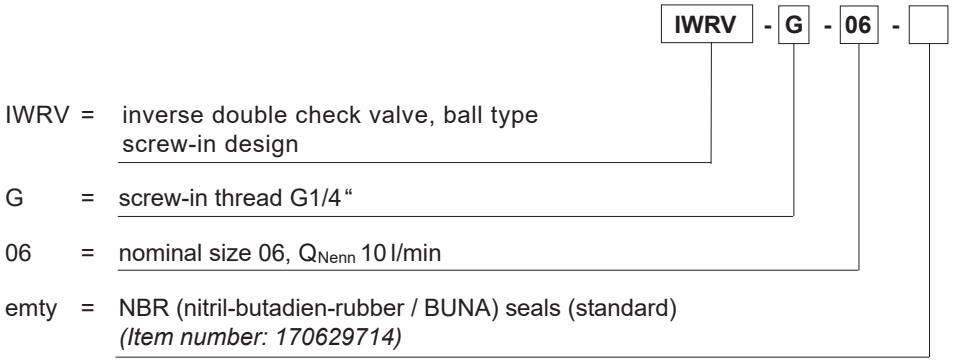
NOTE!
When fitting the screw-in cartridge valve, use the specified tightening torque. The value can be found in the chapter "Technical data".
Orifices or nozzles are to be placed after the check valve. If this is not possible, a right-angled bore must be designated between the check valve and the nozzle. (see data sheet 170-P-059000).

ATTENTION!
When fitting the valve, make sure that it is firmly seated on the sealing surface and that it is not deformed by the use of excessive force.

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.

Ordering code



Related data sheets

Reference	Description
170-P-059000	Using nozzles or orifices before a Check Valve
170-P-080129	cavity IRG-01-06

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