

Lock valve Shuttle valve

$Q_{\max} = 12 \text{ l/min}$, $p_{\max} = 350 \text{ bar}$

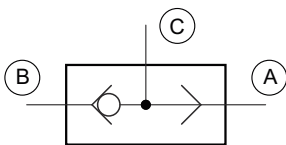
Ball type,

Type series: WRVC-G-04-...



- Screw-in cartridge valve
- Shuttle valve
- Lower Δp compared to check valves made by other manufacturers
- Virtually leak-proof in closed condition
- High pressure rating

Symbol



Description

The WRVC series shuttle valve is characterized by very high pressure load capacity and extremely low Δp . The 3-way shuttle valve shuts off whichever of the inlet ports A or B is at the lower pressure. Port C is thus always connected to the higher pressure.

The shuttle valve in ball-type design is very robust, extremely leak-proof and insensitive to contamination.

Valve seat, ball and body are hardened.

Depending on the version, the size 04 valve is sealed at port A either by a metal-to-metal sealing edge or by an O-ring. Port B is sealed by an O-ring with a backup ring. The WRVC-G valve is available in nominal sizes 04, 06, 08 and 10.

Technical data

General characteristics

General characteristics	Description, value, unit
Function group	lock valve
Function	shuttle valve
Design	screw-in cartridge valve
Characteristic	ball type
Construction size	nominal size 04
Thread size	G 1/8"
Mounting attitude	unrestricted
Weight	0.008 kg
Tightening torque steel	WRVC-G-04 = 5 Nm; WRVC-G-04-DK= 10 Nm

Hydraulic characteristics

Hydraulic characteristics	Description, value, unit
Maximum operating pressure	350 bar
Maximum flow rate	12 l/min
Nominal flow rate	8 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 (cleanliness class according to ISO 4406:1999)	class 20/18/15



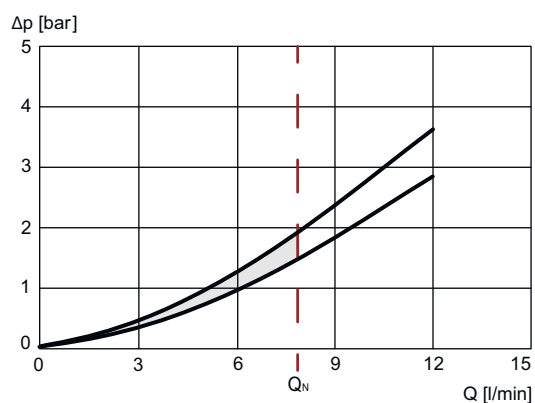
NOTE!

For other values please contact Bucher Hydraulics.

Performance graphs

measured with oil viscosity 33.0 mm²/s (cSt)

$\Delta p = f(Q)$ Pressure drop-flow rate characteristic

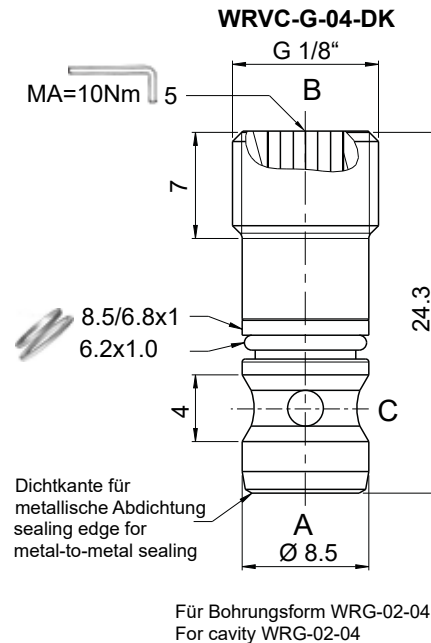
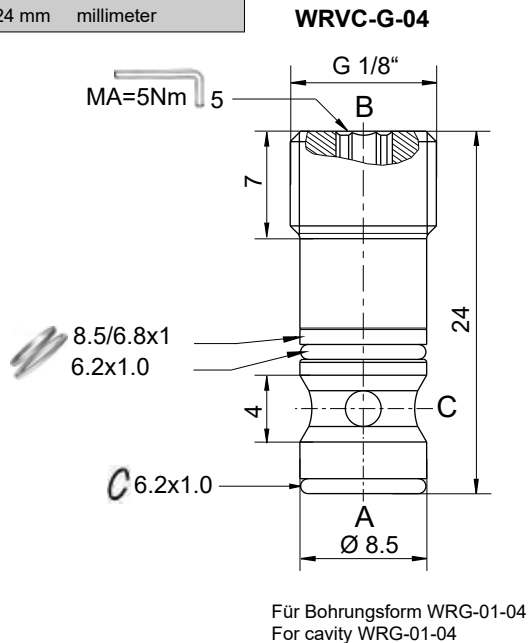


Installation

Beispiel für die Masseinheit:
Example for the dimensional units:

24 = 24 mm millimeter

Die angegebenen Maße gelten für den eingebauten Zustand
The dimensions specified apply to the mounted state.



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).

Recommendation: before installing the valve, fit the O-ring in the cavity.



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.

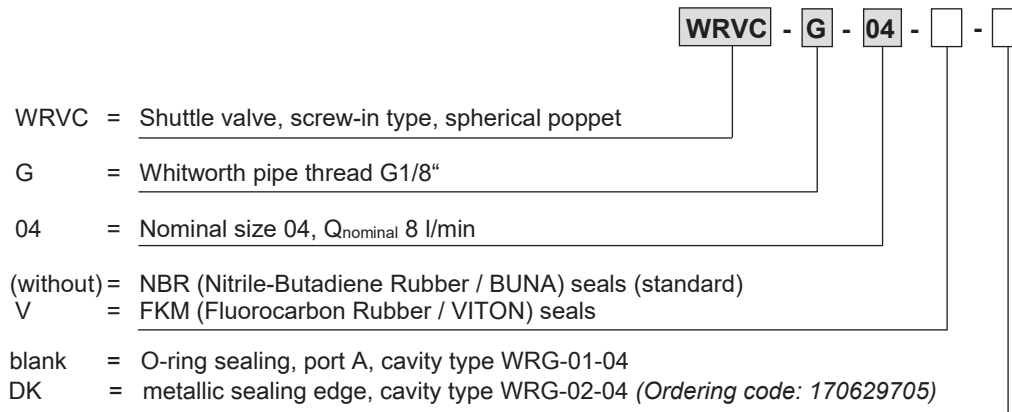
Application Notes



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-080080	cavity WRG-01-04
170-P-080130	cavity WRG-02-04

info.de@bucherhydraulics.com

www.bucherhydraulics.com

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