

Part number:

**HYDROMA**

HYDRAULICKÉ SYSTÉMY

**HIDROMA**  
SYSTEMS

UKŁADY HYDRAULICZNE

**HYDROMA**

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

## Overview of check valves type RK and RB

Check valves are a type of non-return valve. They block the oil flow in one direction and open in the opposite direction. In the closed state they have zero leakage.

The check valve type RK and RB can be screwed in. The spring-loaded ball check valve type RK and RB is very robust and insensitive to soiling.

### Features and benefits:

- Operating pressures up to 700 bar
- Easily machined mounting holes
- Sturdy
- Type RK, RB also available with different pre-load pressures

### Intended applications:

- General hydraulic systems
- Hydraulic pre-loading



*Screw-in cartridge*

## Available versions, main data

### Screw-in valve (basic version)

Circuit symbol:

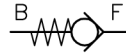
**Type RK**

screwed in in locking direction



**Type RB**

screwed in in free flow direction



Order coding examples:

RB 2	
RK 1 UNF	
RK 2-5	-G

Housing version Table 2 Housing version

Basic type and size Table 1 Basic type and size

**Table 1a Basic type and size type RK**

Basic type and size	Flow rate $Q_{max}$ (lpm)	Pressure $p_{max}$ (bar)	Thread	Opening pressure (bar)
<b>Imperial thread, low opening pressure</b>				
RK 0	10	700	G 1/8 A	0.05
RK 1	20	700	G 1/4 A	0.18
RK 2	50	700	G 3/8 A	0.2
RK 3	80	500	G 1/2 A	0.25
RK 4	120	500	G 3/4 A	0.1
RK 5	240	500	G 1 A	0.1
RK 6	400	420	G 1 1/4 A	0.1
RK 7	620	420	G 1 1/2 A	0.1
<b>Imperial thread, high opening pressure</b>				
RK 0-0,4	10	700	G 1/8 A	0.4
RK 1-...	20	700	G 1/4 A	0.5, 1, 2, 3, 4, 5, 6, 7, 8, 10
RK 2-...	50	700	G 3/8 A	1, 2, 3, 4, 5, 6
RK 3-...	80	500	G 1/2 A	1, 2, 3, 4, 5
RK 4-...	120	500	G 3/4 A	0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
RK 5-...	240	420	G 1 A	1, 2, 3, 5, 8, 10
RK 6-...	400	420	G 1 1/4 A	0.5, 1, 2, 3, 5, 8, 10

**Table 1a Basic type and size type RK**

Basic type and size	Flow rate Q <sub>max</sub> (lpm)	Pressure p <sub>max</sub> (bar)	Thread	Opening pressure (bar)
<b>Metric thread, low opening pressure</b>				
RK 08	5	700	M 8x1	0.2
RK 14	20	700	M 14x1,5	0.18
RK 16	20	700	M 16x1,5	0.18
RK 28	50	700	M 18x1,5	0.2
RK 32	80	500	M 22x1,5	0.25
RK 47	120	500	M 27x2	0.1
RK 62	400	420	M 42x2	0.1
<b>Metric thread, high opening pressure</b>				
RK 08-0,45	5	700	M 8x1	0.45
RK 14-...	20	700	M 14x1,5	0.5, 1, 2, 3, 4, 5, 6, 7, 8
RK 28-...	50	700	M 18x1,5	1, 2, 3, 4, 5, 6
RK 32-...	80	500	M 22x1,5	1, 2, 3, 4, 5
RK 47-...	120	500	M 27x2	0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
RK 62-...	400	420	M 42x2	0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
<b>UNF thread, low opening pressure</b>				
RK 08 UNF	5	630	5/16-24 UNF	0.2
RK 0 UNF	10	630	7/16-20 UNF	0.05
RK 1 UNF	20	630	9/16-18 UNF	0.18
RK 2 UNF	50	630	3/4-16 UNF	0.2
RK 3 UNF	80	420	7/8-14 UNF	0.25
RK 4 UN	120	420	1 1/16-12 UN	0.1
RK 5 UN	240	420	1 5/16-12 UN	0.1
RK 6 UN	400	350	1 5/8-12 UN	0.1
RK 7 UN	620	350	1 7/8-12 UN	0.1

**i Note**

- Threads in accordance with ISO 228-1, DIN 13 T6 (metric) or SAE J 514 (UNF).
- For types RK.-... one of the opening pressures provided must be specified.

**Table 1b Basic type and size type RB**

Basic type and size	Flow rate $Q_{\max}$ (lpm)	Pressure $p_{\max}$ (bar)	Thread	Opening pressure (bar)
<b>Imperial thread, low opening pressure</b>				
RB 0	10	700	G 1/8 A (BSPP)	0.05
RB 1	20	700	G 1/4 A (BSPP)	0.15
RB 2	50	700	G 3/8 A (BSPP)	0.07
RB 3	80	500	G 1/2 A (BSPP)	0.17
RB 4	120	500	G 3/4 A (BSPP)	0.1
<b>Imperial thread, high opening pressure</b>				
RB 1-1	20	700	G 1/4 A (BSPP)	0.9
<b>Metric thread, low opening pressure</b>				
RB 08	5	700	M 8x1	0.2
RB 14	20	700	M 14x1,5	0.15
RB 28	50	700	M 18x1,5	0.07
RB 32	80	500	M 22x1,5	0.17
RB 47	120	500	M 27x2	0.1
<b>Metric thread, high opening pressure</b>				
RB 08-0,45	5	700	M 8x1	0.45
<b>UNF thread, low opening pressure</b>				
RB 08 UNF	5	700	5/16-24 UNF	0.2
RB 0 UNF	10	700	7/16-20 UNF	0.05
RB 1 UNF	20	700	9/16-18 UNF	0.15
RB 2 UNF	50	700	3/4-16 UNF	0.07
RB 3 UNF	80	500	7/8-14 UNF	0.17
RB 4 UN	120	500	1 1/16-12 UN	0.1

**Note**

Threads in accordance with ISO 228-1, DIN 13 T6 (metric) or SAE J 514 (UNF).