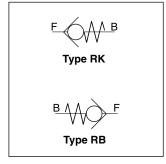
# **Characteristics / Ordering Code**

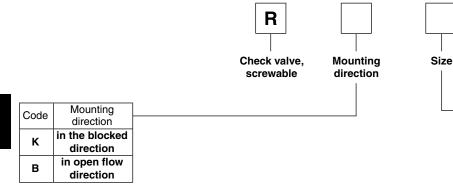
The check valves series RK and RB are designed to go into simple, threaded cavities. The connection is O-ring sealed on the 118° shoulder in the mounting cavity.

The valve body is supplied as a unit, with a spring loaded, hardened and polished semisphere of stainless bearing steel inside. The seat is also hardened and ground.





#### **Ordering code**



Code	Flow [l/min]	Thread	Seal
0 <sup>1)</sup>	10	G1/8A	NBR
1	20	G1/4A	NBR
2	50	G3/8A	NBR
3	80	G1/2A	NBR

**Bold letters =**Short-term availability

#### **Technical data**

Series design with pipe thread

General												
Code			RK0	RK1	RK2	RK3	RB1	RB2	RB3			
Flow [l/min]			10	20	50	80	20	50	80			
Operating pressu	re	[bar]	700	700	700	500	700	700	500			
Opening pressure	)	[bar]	0.15	0.18	0.2	0.25	0.15	0.07	0.17			
Thread (DIN ISO	228/1)		G1/8A	G1/4A	G3/8A	G1/2A	G1/4A	G3/8A	G1/2A			
Tightening torque* ±20 % [Nm]		10	15	20	40	15	20	40				
Weight	Weight [g]		5	5	15	15	5	15	20			
Mounting position	Mounting position			unrestricted								
Ambient temperat	ture	[°C]	-20 +60									
Hydraulic												
Fluid			Hydraulic oil according to DIN 51524									
Fluid temperature [°C]			-25+70									
Viscosity,	permitted	[cSt] / [mm²/s]										
	recommended	[cSt] / [mm²/s]	<sub>5]</sub>   30 80									
			ISO 4406 (1999); 18/16/13									

 $<sup>^{\</sup>star}\,$  In case of strong vibration, it is recommended to secure the mounting threads.

RK-RB UK.INDD CM 08.02.18

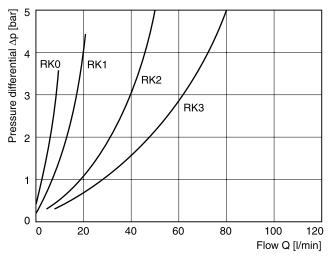


<sup>1)</sup> Only series RK available.

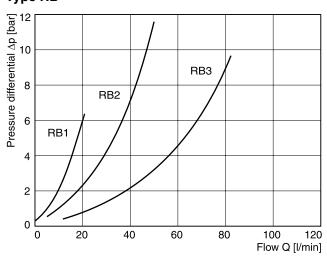
# **Characteristic Curves / Mounting**

#### $\Delta$ p/Q performance curves

### Type RK



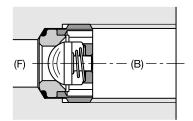
Type RB



All characteristic curves measured with HLP46 at 50 °C.

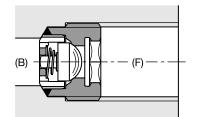
## **Mounting direction**

#### Type RK



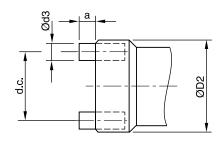
Screwed in, in the blocked direction

# Type RB



Screwed in, in the open flow direction

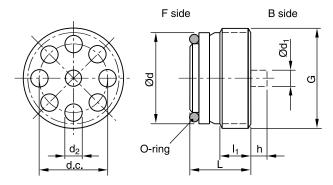
# Mounting tool Type RK



Туре	Ordering number	D <sub>2</sub>	а	d <sub>3</sub>
RK0	5005216	8.6	2	1.5
RK1	5005217	11.5	2.5	2
RK2	5005218	15	2	2.5
RK3	5005219	18.8	4	3.5

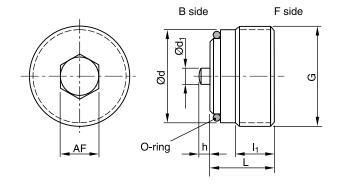
RK-RB UK.INDD CM 08.02.18





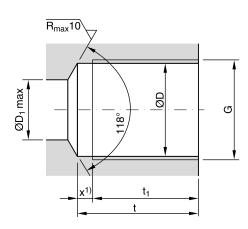
Туре	Thread	L	l <sub>1</sub>	d	d <sub>1</sub>	d <sub>2</sub>	h	d.c.	O-ring	Nm
	G1/8A								6x1	8
RK1	G1/4A	9	4.5	11.5	2.6	2.2	1.5	8.8 <sub>-0.1</sub>	9x1	15
RK2	G3/8A	11.5	6.5	15	3.4	3	2.5	11	11x1.5	20
RK3	G1/2A	13.5	8	18.5	4.3	3.8	3	14.2 <sub>-0.1</sub>	14x1.5	40

Type RB



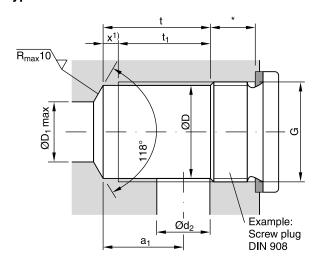
Туре	Thread	L	l <sub>1</sub>	d	d <sub>1</sub>	h	AF	O-ring	Nm
RB1	G1/4A	10.3	5.5	11.6	2.2	1.3	5	9x1	15
RB2	G3/8A	11.5	7.0	15	3	2	6	11x1.5	20
RB3	G1/2A	13.15	8	18.5	3.4	2.5	8	14x1.5	40

## Type RK



Туре	Thread	D	D <sub>1</sub>	t	t <sub>1</sub> <sup>2)</sup>	<b>x</b> <sup>1)</sup>
RK0	G1/8	8.7	5	16	13.7	2.3
RK1 and RB1	G1/4	11.8	8	22	19	3
RK2 and RB2	G3/8	15.25	9	24.5	21.5	3
RK3 and RB3	G1/2	19	12	29	25.5	3.5

# Type RB



Туре	Thread	D	D <sub>1</sub>	t	t <sub>1</sub> <sup>2)</sup>	<b>x</b> <sup>1)</sup>	a <sub>1</sub>	d <sub>2</sub>
RK0	G1/8	8.7	5	12.3	10	2.3	9.5	5
RK1 and RB1	G1/4	11.8	8	14	11	3	11	6
RK2 and RB2	G3/8	15.25	9	17	14	3	13	8
RK3 and RB3	G1/2	19	12	22	18.5	3.5	16	12

## **Mounting cavity**

- · for connecting in combination with tube fitting
- · for internal line channels
- $^{\star}$  Required depth depending on type of screw plug, connecting plate etc. used.
- 1) Thread runout x must be maintained. It may be smaller, but not larger (requirement for a perfect seal using the O-ring).
- 2) Fully cut-out thread

RK-RB UK.INDD CM 08.02.18

