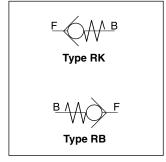
Characteristics / Ordering Code

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.

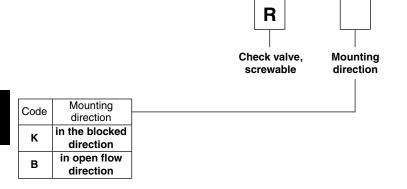
The valve body is supplied as a unit, with a spring loaded, hardened and polished semisphere of stainless bearing steel inside. The seat is also hardened and ground.



Size



Ordering code



Code	Flow [l/min]	Thread	Seal
0 ¹⁾	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 [I/min]			10	20	50	80	20	50	80		
Operating pressure	е	[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 2	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			unrestricted								
Ambient temperatu	ure	[°C]	-20 +60								
Hydraulic											
Fluid			Hydraulic oil according to DIN 51524								
Viscosity, permitted [cSt] / [mm²/s]											
	recommended	[cSt] / [mm²/s]	30 80	30 80							
Temperatures											
Filtration			ISO 4406 (1999); 18/16/13								

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



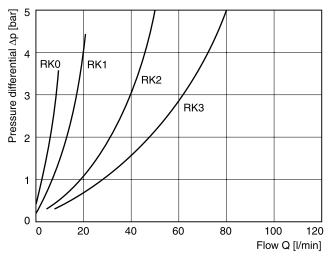


¹⁾ Only series RK available

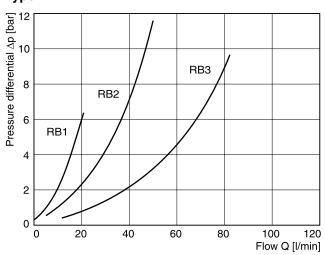
Characteristic Curves / Mounting

Δ p/Q performance curves

Type RK



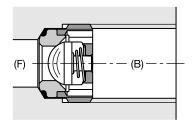
Type RB



All characteristic curves measured with HLP46 at 50 °C.

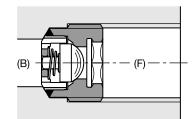
Mounting direction

Type RK



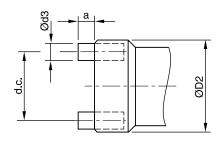
Screwed in, in the blocked direction

Type RB



Screwed in, in the open flow direction

Mounting tool Type RK



Туре	Ordering number	D ₂	а	d ₃
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

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Type RK

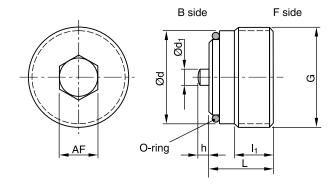
F side B side ø

O-ring

h

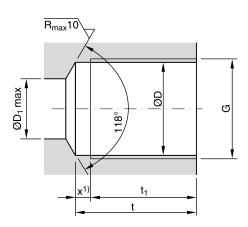
Туре	Thread	L	l ₁	d	d ₁	d ₂	h	d.c.	O-ring	Nm
	G1/8A									8
RK1	G1/4A	9	4.5	11.5	2.6	2.2	1.5	8.8 _{-0.1}	9x1	15
RK2	G3/8A	11	6	15	3.4	3	2.5	11	11x1.5	20
RK3	G1/2A	13	7.5	18.5	4.3	3.8	3	14.2 _{-0.1}	14x1.5	40

Type RB



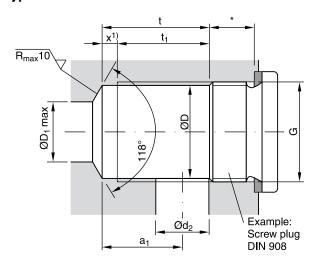
Туре	Thread	L	l ₁	d	d ₁	h	AF	O-ring	Nm
RB1	G1/4A	9.8	5	11.6	2.2	1.3	5	9x1	15
RB2	G3/8A	11.5	7.0	15	3	2	6	11x1.5	20
RB3	G1/2A	13.15	7.5	18.5	3.4	2.5	8	14x1.5	40

Type RK



Туре	Thread	D	D ₁	t	t ₁ ²⁾	x ¹⁾
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 ₁	t	t ₁ ²⁾	x ¹⁾	a ₁	d ₂
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
- * 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

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