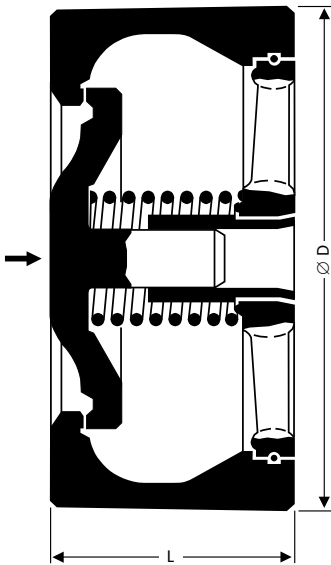
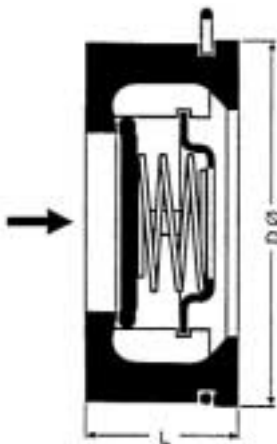


RK 41/RK 44
DN 15 – 100 mm



RK 41/RK 44
DN 125 – 200 mm



RK 76
DN 15 – 100 mm

Application

Type	PN	
RK 41	16	For liquids, gases, vapours. Application as gravity circulation check, vacuum breaker, breather, foot valve, pressure-maintaining valve, check valve. RK 41 especially suited for heating installations RK 44 for sea water and drinking water RK 76 for industrial applications
RK 44	16	
RK 76	40	

Body Material

Type	Nominal sizes (DN)	DIN reference	ASTM equivalent
RK 41	15 – 100 mm	2.0540	Special Brass
	125 – 200 mm	0.6025	A 126 Class A
RK 44	15 – 200 mm	2.1050	B 584 C 90 500
RK 76	15 – 100 mm	1.4008	A 217-CA 15

Physical and chemical properties comply with DIN grade. ASTM nearest equivalent is stated for guidance only.

Dimensions

	DN	[mm]	15	20	25	32	40	50	65	80	100	125	150	200	
			[in]	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
			L	[mm]	16	19	22	28	31.5	40	46	50	60	90	106
RK 41	D	[mm]	40	47	56	72	82	95	115	132	152	184	209	264	
RK 44	D	[mm]	42	49	58	74	84	97	117	132	152	184	209	264	
RK 76	D	[mm]	45	55	65	75	85	98	118	134	154	–	–	–	

Pressure/Temperature Ratings

Type	PN	Nominal sizes (DN)	PMA / TMA / [bar] / [°C]		
RK 41	16	15 – 100 mm	16 / -60	14 / 200	13 / 250
	16	125 – 200 mm	16 / -10	13 / 200	13 / 300
RK 44	16	15 – 100 mm	16 / -200	14 / 200	13 / 250
	16	125 – 200 mm	16 / -10	14 / 200	13 / 250
RK 76	40	15 – 100 mm	40 / -10	32 / 200	28 / 300

Non-Return Valves RK – PN 6 to PN 40

Short overall length according to DIN EN 558-1, table 11, series 49 (Δ DIN 3202, part 3, series K4)



Pressure Drop Charts

The curves given in the chart are valid for water at 20 °C. To read the pressure drop for other fluids the equivalent water volume flowrate must be calculated and used in the graph.

The values indicated in the chart are applicable to spring-loaded valves with horizontal flow. With vertical flow insignificant deviations occur only within the range of partial opening.

$$\dot{V}_w = \dot{V} \cdot \sqrt{\frac{\rho}{1000}}$$

\dot{V}_w = Equivalent water volume flow in [l/s] or [m³/h]

ρ = Density of fluid (operating condition) in [kg/m³]

\dot{V} = Volume of fluid (operating condition) in [l/s] or [m³/h]

Opening Pressures

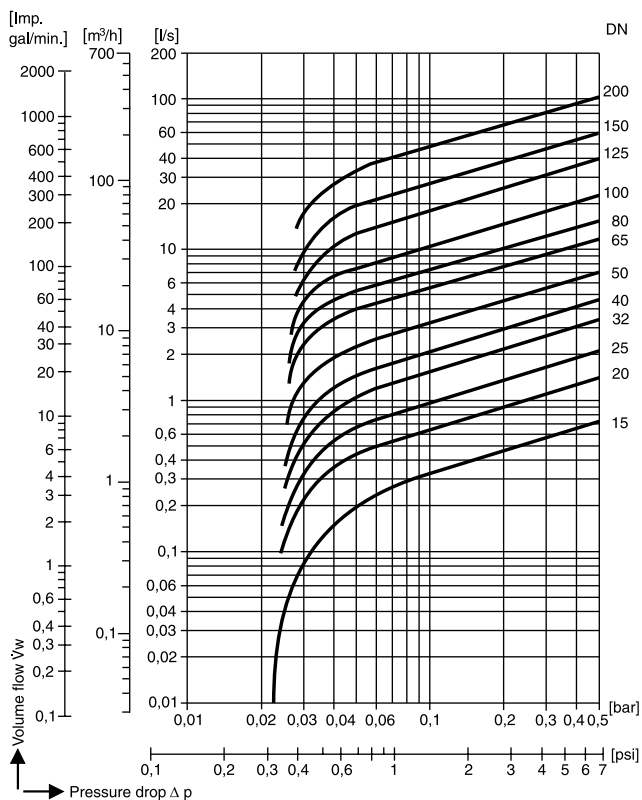
Differential pressures at zero volume flow.

RK 41, RK 44, RK 76*)

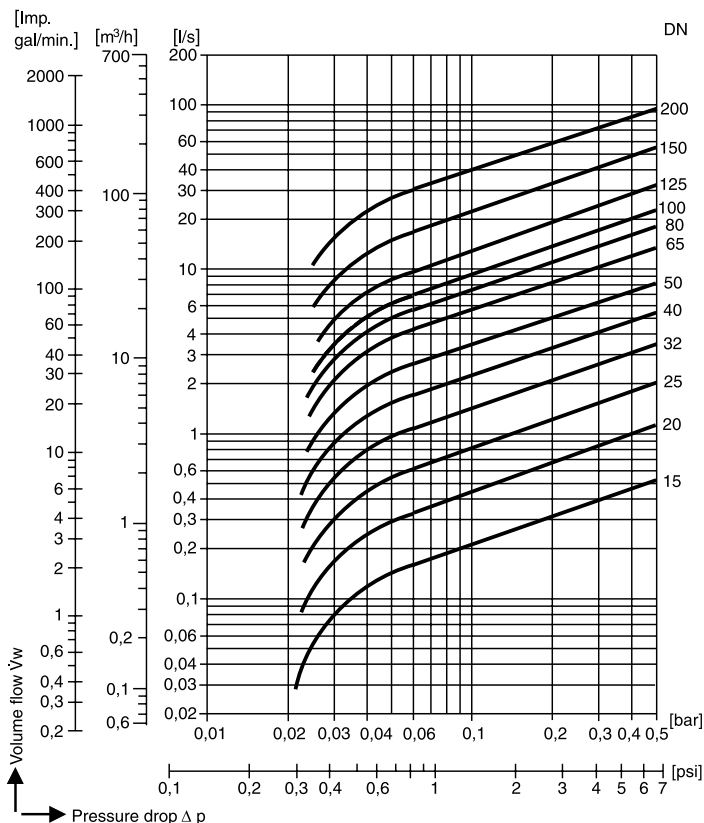
DN	Opening pressures [mbar]			
	Direction of flow			
	without spring	with spring		
	↑	↑	→	↓
15	2.5	25	22.5	20
20	2.5	25	22.5	20
25	2.5	25	22.5	20
32	3.5	27	23.5	20
40	4.0	28	24.0	20
50	4.5	29	24.5	20
65	5.0	30	25.0	20
80	5.5	31	25.5	20
100	6.5	33	26.5	20
125	12.5	35	22.5	10
150	14.0	38	24.0	10
200	13.5	37	23.5	10

*) RK 76 not available with special springs.

RK 41/44



RK 76



DISCO Non-Return Valves RK PN 6 to PN 40



Stock Code

Type	PN	DN [mm]	Stock code
RK 41	6/10/16	15	1021200
	6/10/16	20	1021400
	6/10/16	25	1021500
	6/10/16	32	1021600
	6/10/16	40	1021700
	6/10/16	50	1021800
	6/10/16	65	1021900
	6/10/16	80	1022000
	6/10/16	100	1022100
	6/10/16	125	1022200
	6/10/16	150	1022300
	6/10/16	200	1022500
	RK 44	6/10/16	15
6/10/16		20	1031400
6/10/16		25	1031500
6/10/16		32	1031600
6/10/16		40	1031700
6/10/16		50	1031800
6/10/16		65	1031900
6/10/16		80	1032000
6/10/16		100	1032100
6/10/16		125	1032200
6/10/16		150	1032300
6/10/16		200	1032500
RK 76*)		6/10/16/25/40	15
	6/10/16/25/40	20	1201400
	6/10/16/25/40	25	1201500
	6/10/16/25/40	32	1201600
	6/10/16/25/40	40	1201700
	6/10/16/25/40	50	1201800
	6/10/16/25/40	65	1201900
	6/10/16/25/40	80	1202000
	6/10/16/25/40	100	1202100

*) RK 76 not available with soft seat or special spring.