





### 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 valves with horizontal flow. With vertical flow insignificant deviations occur only within the range of partial openings.

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

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

$\rho$  = Density of fluid (operating condition) in [kg/m³]

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

### Opening Pressures

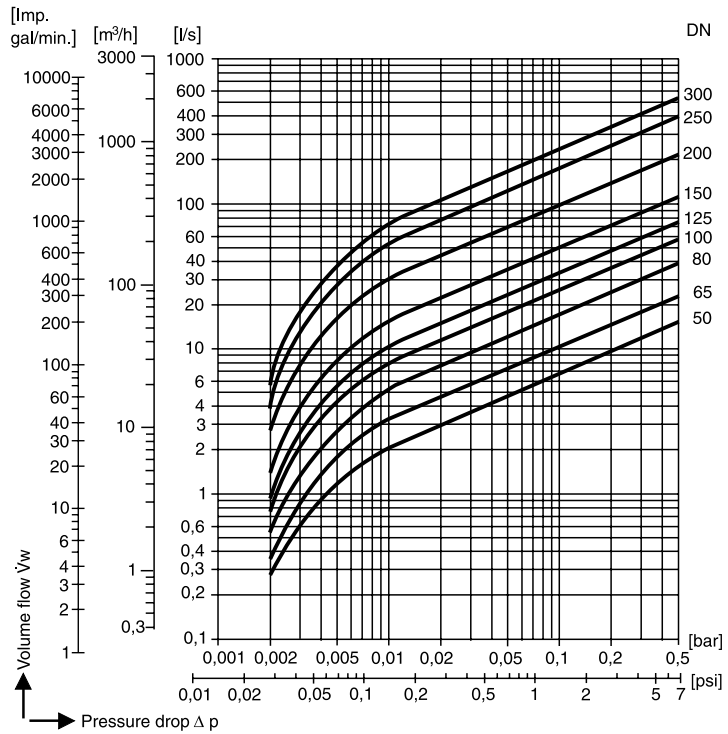
Differential pressures at zero volume flow.

Type	DN [mm]	Opening pressures [mbar]		
		Direction of flow		
		↑	→	↓
CB 14	50 – 150	8	0	1)
	200 – 300	15	0	

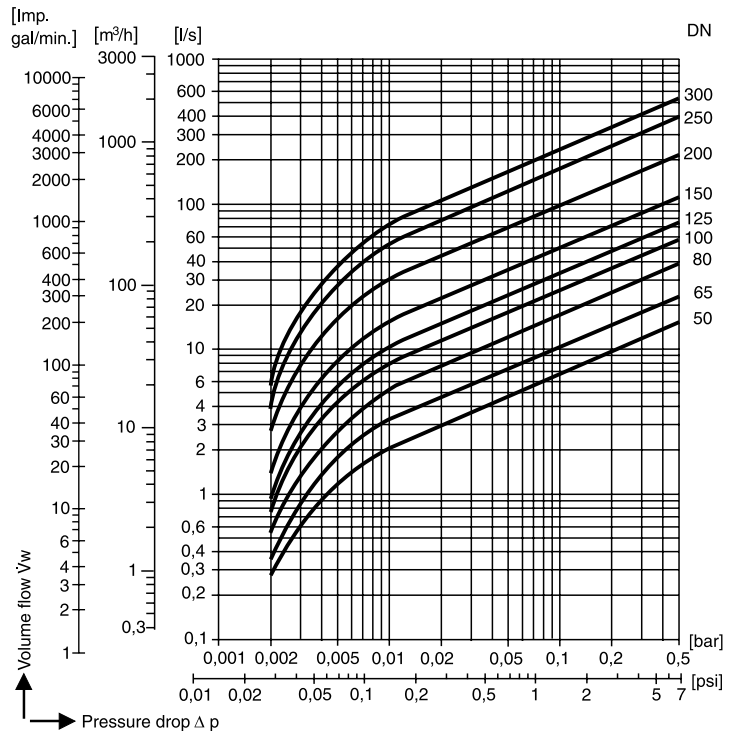
Type	DN [mm]	Opening pressures [mbar]			
		Direction of flow			
		with-out spring	with spring		
		↑	↑	→	↓
CB 24 S	50 – 150	5	12	7	1)
	200 – 300	8	15	7	
CB 26/	50 – 80	5	12	7	1)
CB 26 A	100 – 150	11	18	7	
	200 – 300	18	25	7	

1) Valves should not be used for downward flow applications, since the spring will not close the valve flap.

### CB 14



### CB 24 S, CB 26, CB 26 A



# DISCO Swing Check Valves CB

## DN 50 – 300 mm, PN 6 – 40



### Stock Codes

Material	Type	Nominal pressure PN	Nominal size		Stock code
			DN	inch	
Soft seat of NBR, without spring	CB 14	6-16	50	2"	1381800
	CB 14	6-16	65	2½"	1381900
	CB 14	6-16	80	3"	1382000
	CB 14	6-16	100	4"	1382100
	CB 14	6-16	125	5"	1382200
	CB 14	6-16	150	6"	1382300
	CB 14	6-16	200	8"	1382500
	CB 14	6-16	250	10"	1382600
	CB 14	6-16	300	12"	1382700
Soft seat of NBR	CB 14 S	6-16	50	2"	1321800
	CB 14 S	6-16	65	2½"	1321900
	CB 14 S	6-16	80	3"	1322000
	CB 14 S	6-16	100	4"	1322100
	CB 14 S	6-16	125	5"	1322200
	CB 14 S	6-16	150	6"	1322300
	CB 14 S	6-16	200	8"	1322500
	CB 14 S	6-16	250	10"	1322600
	CB 14 S	6-40	300	12"	1322700
Soft seat of EPDM	CB 26	6-40	50	2"	1331800
	CB 26	6-40	65	2½"	1331900
	CB 26	6-40	80	3"	1332000
	CB 26	6-40	100	4"	1332100
	CB 26	6-40	125	5"	1332200
	CB 26	6-40	150	6"	1332300
	CB 26	6-40	200	8"	1332500
	CB 26	6-40	250	10"	1332600
	CB 26	6-40	300	12"	1332700
Soft seat of EPDM	CB 26 A	6-40	50	2"	1341800
	CB 26 A	6-40	65	2½"	1341900
	CB 26 A	6-40	80	3"	1342000
	CB 26 A	6-40	100	4"	1342100
	CB 26 A	6-40	125	5"	1342200
	CB 26 A	6-40	150	6"	1342300
	CB 26 A	6-40	200	8"	1342500
	CB 26 A	6-40	250	10"	1342600
	CB 26 A	6-40	300	12"	1342700

### Special Designs

Soft seats/ metal-to-metal seats	for type
made of FPM for oils, gases, air up to 200 °C	CB 24 S, CB 26, CB 26 A
metal-to-metal seat	CB 24 S, CB 26, CB 26 A