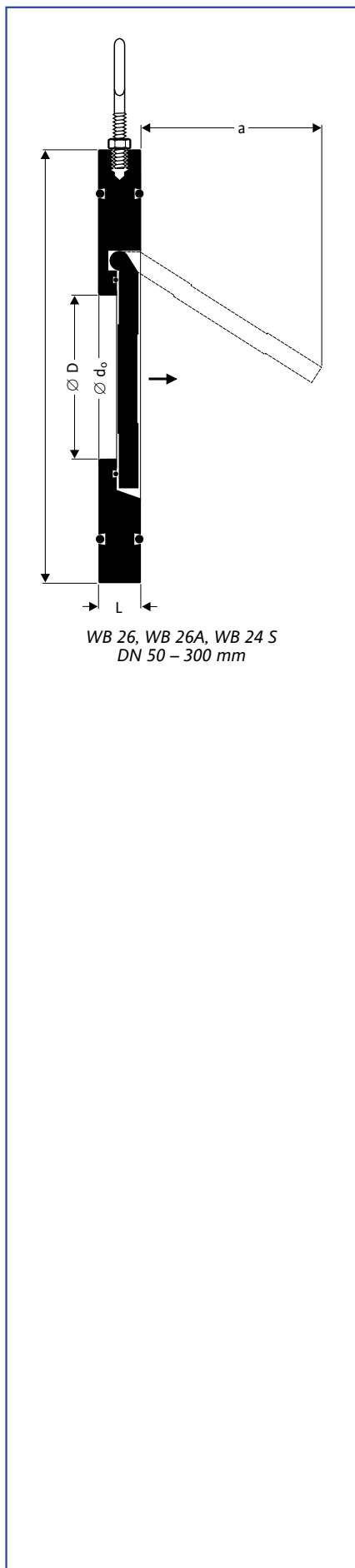


Swing Check Valves WB without spring, DN 50 – 300 mm, PN 10/16



Application

WB 26	for liquids, gases and vapours
WB 26 A	for aggressive fluids
WB 24 S	for sea water

Installation in horizontal or vertical lines with upward flow.

Materials

Type		ASTM reference	DIN ¹⁾ equivalent
WB 26	Body and flap	AISI 420	1.4034
		galvanized	galvanized
WB 26 A	Body	AISI 316	1.4401
	Flap	A 351 CF 8M	1.4408
WB 24 S	Body and flap	Aluminium bronze	Aluminium bronze
O-rings		NBR as standard	

¹⁾ Physical and chemical properties comply with ASTM grade.

Pressure/Temperature Ratings

Nominal pressure	PN	16
Design with O-rings ²⁾		NBR
Max. service pressure	[bar]	16
Related temperature	[°C]	110
Min. temperature ³⁾	[°C]	-10

²⁾ O-rings in flap and valve faces made of NBR as standard.

³⁾ Minimum temperature for nominal pressure rating.

Weights and Dimensions

Nominal size DN		Dimensions [mm]				Weight ⁴⁾ [kg]
[mm]	[in]	L	∅ D	a	∅ d _o	
50	2	14	109	35	32	0.95
65	2½	14	129	48	40	1.2
80	3	14	144	60	54	1.6
100	4	18	164	78	70	2.5
125	5	18	195	98	92	3.5
150	6	20	220	116.5	112	4.7
200	8	22	275	160	154	7.6
250	10	26	330	200	200	13.2
300	12	32	380	235	240	20.5

⁴⁾ The weight ratings apply for WB 26 and WB 26 A. WB 24 S reduced by approx. 5 %.

Swing Check Valves WB without spring, DN 50 – 300 mm, PN 10/16



Pressure Drop Chart

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.

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

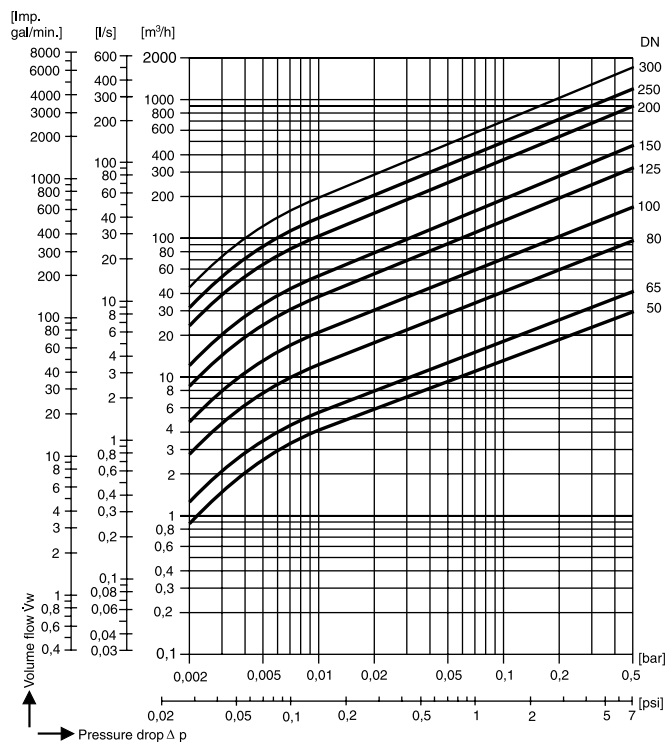
\dot{V}_W = Equivalent water volume flow in [l/s] or [m³/h]

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

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

Opening Pressures

Opening pressure zero when valve is installed in horizontal line.



Stock Codes

Material	Type	Nominal pressure PN	Nominal size		Stock code
			DN	inch	
Soft seat of NBR	WB 26	10/16	50	2"	6501803
	WB 26	10/16	65	2½"	6501903
	WB 26	10/16	80	3"	6502003
	WB 26	10/16	100	4"	6502103
	WB 26	10/16	125	5"	6502203
	WB 26	10/16	150	6"	6502303
	WB 26	10/16	200	8"	6502503
	WB 26	10/16	250	10"	6502603
Soft seat of NBR	WB 26 A	10/16	300	12"	6502703
	WB 26 A	10/16	50	2"	6511803
	WB 26 A	10/16	65	2½"	6511903
	WB 26 A	10/16	80	3"	6512003
	WB 26 A	10/16	100	4"	6512103
	WB 26 A	10/16	125	5"	6512203
	WB 26 A	10/16	150	6"	6512303
	WB 26 A	10/16	200	8"	6512503
Soft seat of EPDM	WB 26 A	10/16	250	10"	6512603
	WB 26 A	10/16	300	12"	6512703
	WB 24 S	10/16	50	2"	6531803
	WB 24 S	10/16	65	2½"	6531903
	WB 24 S	10/16	80	3"	6532003
	WB 24 S	10/16	100	4"	6532103
	WB 24 S	10/16	125	5"	6532203
	WB 24 S	10/16	150	6"	6532303
Soft seat of EPDM	WB 24 S	10/16	200	8"	6532503
	WB 24 S	10/16	250	10"	6532603
	WB 24 S	10/16	300	12"	6532703

Special Designs

Soft seats (FPM)

for oils, gases, air up to 200 °C