

GESTRA Steam Systems

Product Range A2

DISCO Swing Check Valves
WB 26, WB 26A, WB 24S
for Flanges PN 10/16

WB 26
WB 26A
WB 24S

Application

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

Pressure / Temperature Ratings

Nominal pressure	PN	16
Design with O-rings ¹⁾		NBR
Max. service pressure		16 [bar] (230 psig)
Related temperature		110 [°C] (230 °F)
Min. temperature ²⁾		-10 [°C] (14 °F)

¹⁾ O-rings in flap and valve faces made of NBR as standard.

²⁾ Minimum temperature for nominal pressure rating.

Connection

Standard valves for fitting between flanges to DIN 2501, PN 10/16.

Install wafer-type valves only in horizontal lines or in vertical lines with upward flow. When the valve is completely open the flap contacts the inside of the downstream pipe.

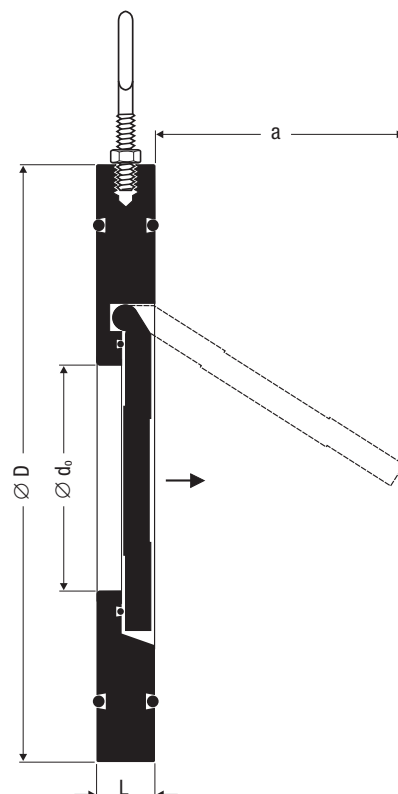
Dimensions

Nominal size		Dimensions in [mm]				Weight ³⁾ [kg]
[mm]	[inch]	L	Ø D	a	Ø d ₀	
50	2	14	109	35	32	0.95
65	2 ½	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

³⁾ The weight ratings apply for WB 26 and WB 26 A. WB 24 S reduced by approx. 5 %

Materials

Designation		ASTM reference	DIN equivalent
WB 26	Body and flap	AISI 420 galvanised	X46Cr13 (1.4034) galvanised
WB 26 A	Body	AISI 316	X5CrNiMo17-12-2 (1.4401)
	Flap	A 351 CF 8M	G-X6CrNiMo18-10 (1.4408)
WB 24 S	Body and flap	Aluminium bronze	
O-rings		NBR as standard	



DISCO Swing Check Valves

WB 26, WB 26A, WB 24S

for Flanges PN 10/16

Opening Pressures

Opening pressure zero when valve is installed in horizontal line.

Enquiry Specification

GESTRA DISCO swing check valves WB. Wafer design with extremely short overall length. Metal hinge, soft seat, no springs.

Suitable for fitting between flanges to DIN, PN 10/16. Indications on pressure, nominal size (DN), body material. O-rings made of NBR (as standard).

Order Specifications

Type WB 2. . . DN. . . with O-rings made of NBR. For flanges to DIN PN 10/16.

Fluid, flowrate, service pressure and temperature. Type of flange.

Please note:

The valves should not be used on compressors or where pulsating flow exists. For these applications please consult us.

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.

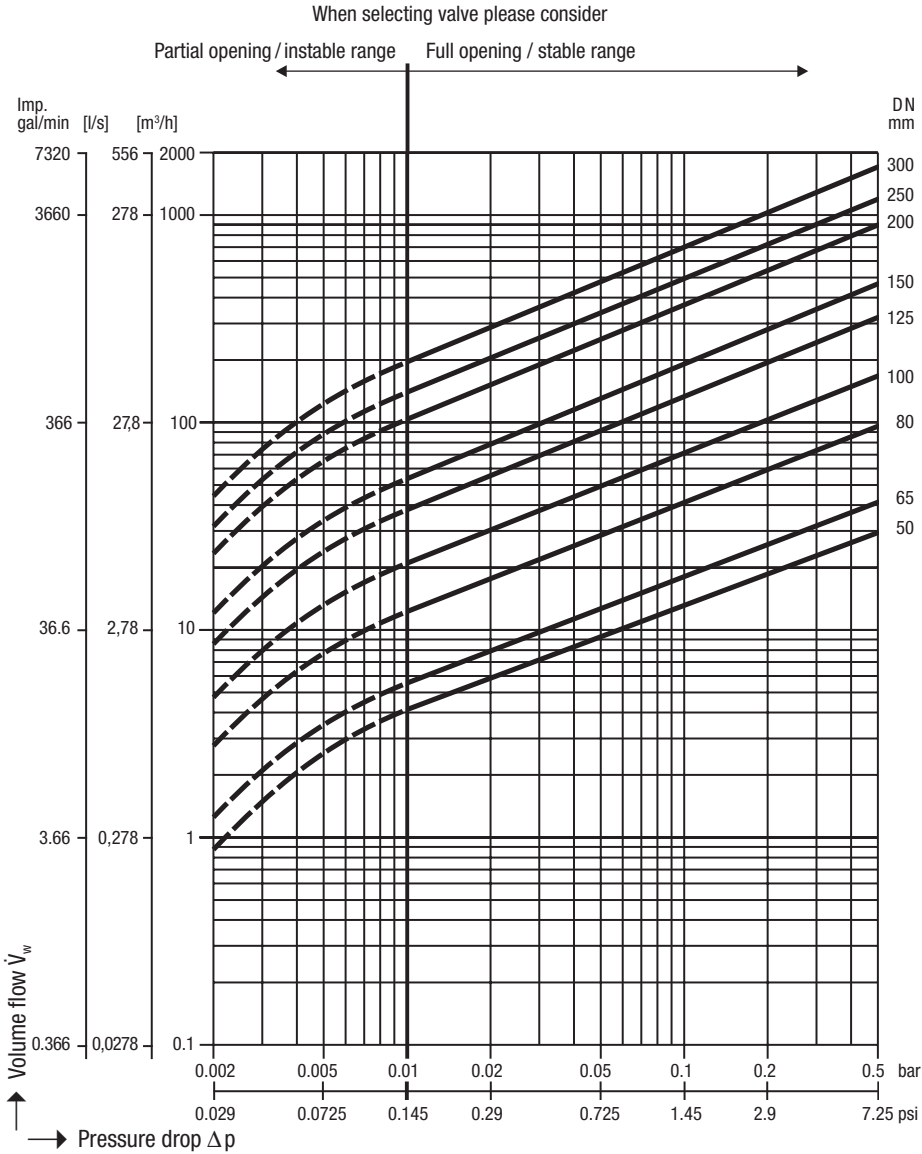
The values indicated in the chart are applicable to valves with horizontal flow. With vertical flow insignificant deviations occur only within the range of partial opening.

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

$$\dot{V}_w = \text{Equivalent water volume flow in [l/s] or [m}^3\text{/h]}$$

$$\dot{V} = \text{Volume of fluid (operating condition) in [l/s] or [m}^3\text{/h]}$$

$$\rho = \text{Density of fluids (operating condition) in [kg/m}^3\text{]}$$



1 US gallon = 0.8333 Imp. gallon

Supply in accordance with our general terms of business.

GESTRA AG

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