

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

### 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 <sup>1)</sup>		NBR
Max. service pressure		16 [bar] (230 psig)
Related temperature		110 [°C] (230 °F)
Min. temperature <sup>2)</sup>		-10 [°C] (14 °F)

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

<sup>2)</sup> 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 <sup>3)</sup> [kg]
[mm]	[inch]	L	Ø D	a	Ø d <sub>o</sub>	
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

<sup>3)</sup> 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**

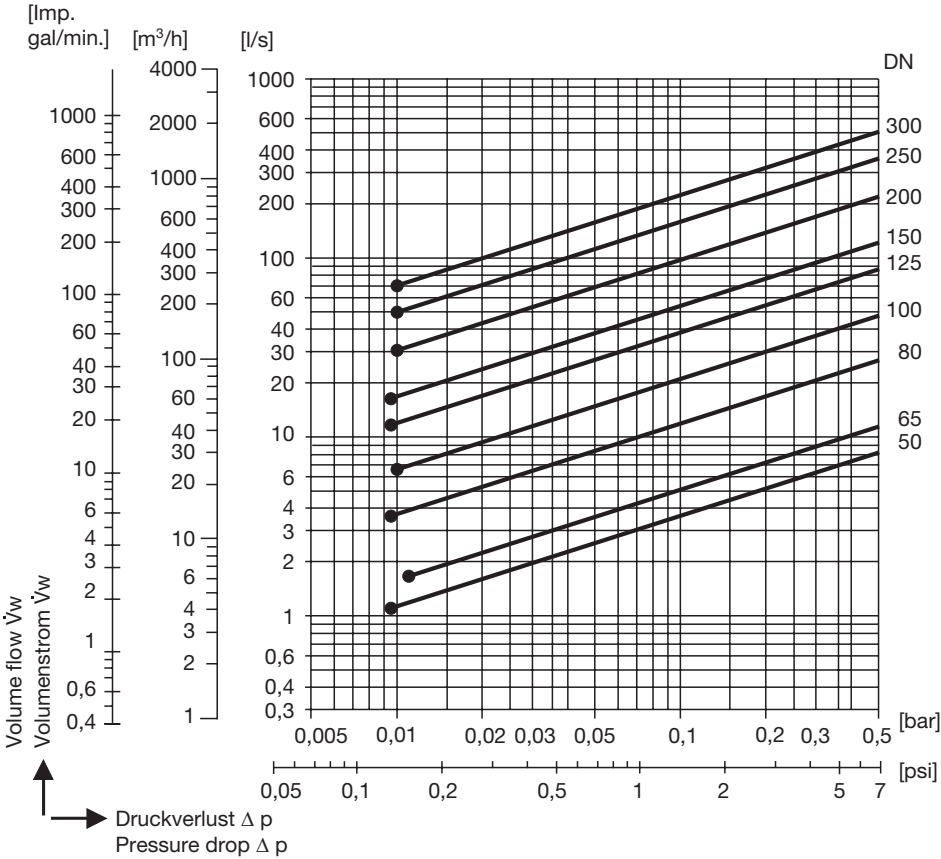
The curves given in the chart are valid for water at 20 °C. To read the pressure drop for other fluids the equivalent water volume flowrate  $\dot{V}_w$  must be calculated and used in the graph.  
 The values indicated in the chart are applicable to equipment installed in horizontal pipes.

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

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

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

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



1 US gallon = 0.8333 Imp. gallon

● Required minimum volume flow  $\dot{V}_w$  for equipment installed in horizontal pipes.

Supply in accordance with our general terms of business.



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