

### Application and Features

Type	PN	Application	Features
		for liquids, gases and vapours	
WB 24S	PN 16	for salty fluids such as sea water	without spring, eye bolt for easy installation, O-ring of NBR for flange sealing, short overall length
WB 26	PN 16	for industrial applications	
WB 26A	PN 16	for aggressive fluids	

### Materials

Type		ASTM reference	EN <sup>1)</sup> equivalent
WB 26	Body	Carbon steel, galvanized	Carbon steel, galvanized
	Flap	AISI 316	1.4401
WB 26 A	Body	AISI 316	1.4401
	Flap	AISI 316	1.4401
WB 24 S	Body and flap	Aluminium bronze	Aluminium bronze
O-rings		NBR as standard	

<sup>1)</sup> Physical and chemical properties comply with ASTM grade.

### Weights and Dimensions

Nominal size DN	[mm]	[in]	Dimensions [mm]			Weight <sup>5)</sup>	
			L	Ø D	a		Ø d <sub>0</sub>
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

<sup>5)</sup> The weight ratings apply for WB 26 and WB 26 A. WB 24 S reduced by approx. 5 %.

### Pressure/Temperature Ratings

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

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

<sup>3)</sup> Minimum temperature for nominal pressure rating.

### WB Design

Type	Seat					Springs	
	metal-to-metal	NBR (-30 up to 110°C <sup>4)</sup> )	EPDM (-40 up to 150°C <sup>4)</sup> )	FPM (-25 up to 200°C <sup>4)</sup> )	PTFE (-25 up to 200°C <sup>4)</sup> )	without spring	special spring
WB 24S	0	X	Use CB 26	0	-	X	-
WB 26	0	X	Use CB 26	0	Use CB 26	X	-
WB 26A	0	X	Use CB 26A	0	Use CB 26A	X	-

<sup>4)</sup> Observe pressure/temp. ratings

X : standard

0 : optional

- : not available

## 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  $\dot{V}_w$ .

The values indicated in the chart are applicable to equipment installed in horizontal pipes.

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

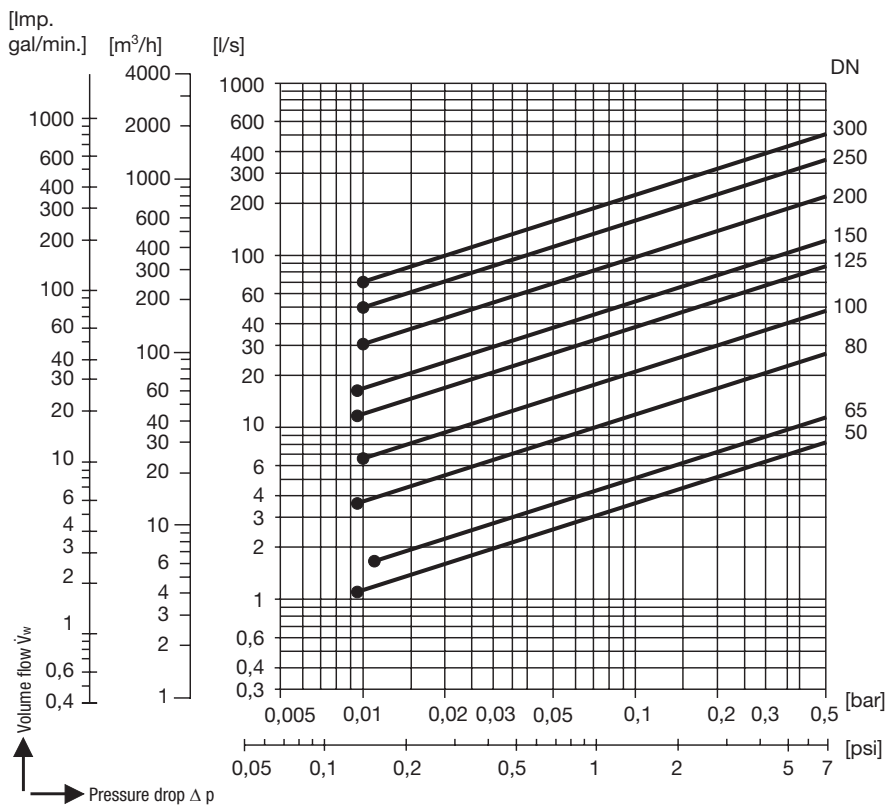
$\dot{V}_w$  = Equivalent water volume flow  
in [l/s] or [m<sup>3</sup>/h]

$\rho$  = Density of fluid  
(operating condition) in [kg/m<sup>3</sup>]

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

## Opening Pressures

Opening pressure zero when valve is installed in horizontal line.



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