



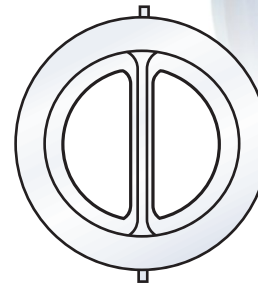
## DOUBLE DISC WAFER SWING CHECK VALVE

### Description:

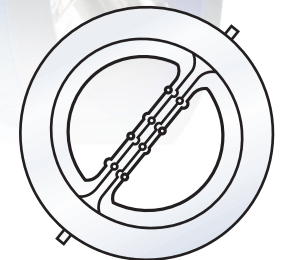
- Suitable Temperature: BUNA-N (NBR)  $\leq 80^{\circ}\text{C}$ ; EPDM  $\leq 120^{\circ}\text{C}$ ; VITON  $\leq 150^{\circ}\text{C}$
- Suitable Media: Fresh Water, Sewage, Sea Water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis, Salts. Etc



Normal Pressure	PN16	PN25
Sealing Test Pressure	1.76MPa	2.75MPa
Strength Test Pressure	2.4MPa	3.75MPa
Suitable Temperature	NBR:-10 - +80°C	
	EPDM:-10 - +120°C	
	VITON:-10 - +150°C	
Medium	fresh water, sea water, waste water, foodstuff,	
	steam, oil, weak acid & alkaline liquid, etc	



CORRECT

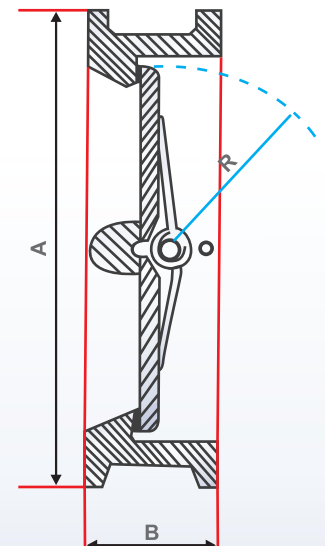


INCORRECT

### DIMENSIONS

DN	A			B	R	CV
	DIN 2501 PN16/PN25	TABLE D	ANS 125-150	EN558-1		
50	109/109	98	4-1/8"	43	28.8	80
65	129/129	111	4-7/8"	46	36.1	90
80	144/144	130	5-3/8"	64	43.4	150
100	164/170	162	6-7/8"	64	52.8	300
125	194/196	194	7-3/4"	70	65.7	500
150	220/226	219	8-3/4"	76	78.6	900
200	275/286	276	11"	89	104.4	1 700
250	330/343	337	13-3/8"	114	127	3 000
300	380/403	387	16-1/8"	114	147	4 000
350	440	448	17-3/4"	127	172.4	5 350
400	491	499	20-1/4"	140	7 400	
450	541	562	21-5/8"	152	217.8	10 000
500	600	619	23-7/8"	152	241	13 000
600	698	731	28-1/4"	178	295.4	24 000

FIG 301





## DOUBLE DISC WAFER SWING CHECK VALVE

### HYDRAULIC CHARACTERISTICS

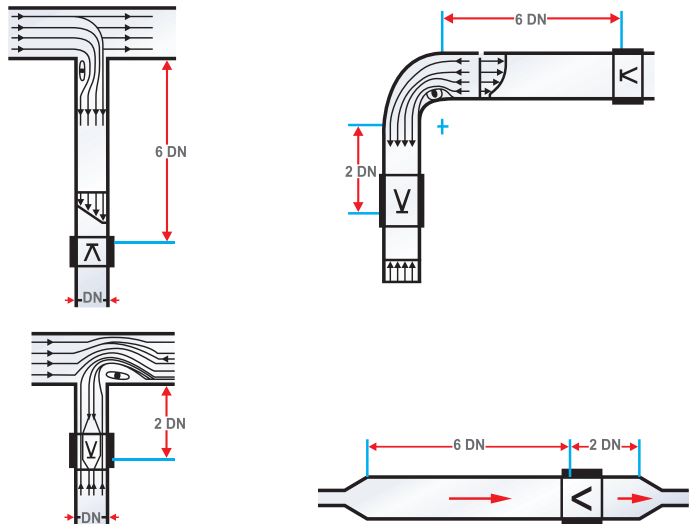
DN		Flow coefficient full open position		Zeta	DN		Flow coefficient full open position		Zeta
mm	inch	Kvo	Cvo		mm	inch	Kvo	Cvo	
50	2	75	87	1.77	250	10	2 300	2 668	1.18
65	2 ½	112	130	2.27	300	12	3 850	4 466	0.87
80	3	141	163	3.29	350	14	4 600	5 336	1.13
100	4	240	278	2.77	400	16	6 000	6 960	1.13
125	5	450	522	1.92	450	18	8 500	9 860	0.91
150	6	750	870	1.43	500	20	10 000	11 600	0.99
200	8	1 300	1 508	1.51	600	24	12 500	14 500	1.32

Units: Kvo in m<sup>3</sup>/h/bar<sup>1/2</sup> - Cvo in gallon/mn/PSI<sup>1/2</sup>

### MATERIALS LIST

<b>Body</b>	Cast Iron Ductile Iron Stainless Steel Steel
<b>Disc</b>	Stainless Steel AL Bronze Carbon Steel
<b>Seat Gasket</b>	Rubber
<b>Axle</b>	Stainless Steel
<b>Spring</b>	Stainless Steel
<b>Washer</b>	TEFLON

\*Steel or Stainless steel body can be PN25/CL 150



### OPTIMUM INSTALLATION

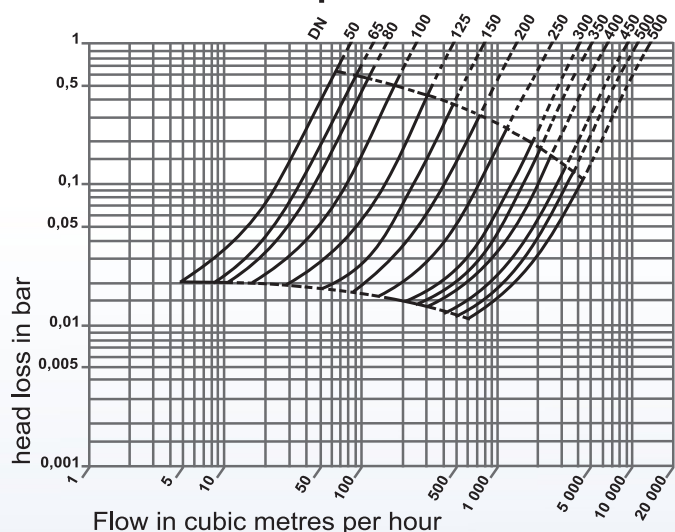
In a horizontal pipe, the check valve must always be installed with its hinge in the vertical position.

In a piping system, some minimum distances must be respected between the check valve position and a bend or a tee. The following drawings show some horizontal pipe configurations (view from above) in which the check valve is installed with its hinge pin in the vertical position.

The minimum recommended distance for a check valve installed downstream from a bend, tee, pump or valve causing flow disturbance is 6 diameters.

When such a unit downstream of the check valve, it is necessary to respect a distance of at least 2 diameters.

### Pressure drops in water flow



The curves in continuous line define the flow range for the optimum use of the check valve.