

**Disc Check Valves "DCV" - Wafer Type****Disc Type Non Return Valves "NRV"  
Non Slam Check Valves**

**"Cair"** offers disc check valves (wafer type) especially for chemical, Food processing, Pharmaceuticals, Pulp and Paper, Textiles, Power generation, Refrigeration & Air Conditioning etc. The valves are used in Oil lines, Processing line, Hot and cold water systems, steam and condensates, Gas lines etc.

**SALIENT FEATURES :**

- Disc Check Valve is an advanced design which gives full flow and occupy very less space than other type of Non Return Valve. This also available with **IBR Certificate in Form III C**.
- DCVs are simple to fit between two pipe flanges.
- Spring loaded disc to prevent reverse flow in pipe lines.
- Stronger, lighter and smaller than conventional swing check valves, hence less expensive to install and maintain.
- Compact Design of valves flexibly accommodates various types of flange selection.
- The valves can be fitted in any plane/direction in pipelines.
- Available in 15mm to 100mm sizes.
- Extremely low operating pressure.
- Self centering type design.
- Zero leakage for soft seated valves.
- Testing : As per API 598.

**Size Range : 1/2" To 4" S/E****Size Range Upto : 1/2" to 8" Wafer Type****Technical Specifications :**

Body Construction	ASTM A 351 Gr. CF 8 / CF 8M. ASTM A 216 Gr. WCB.
Disc	AISI 304 or AISI 316 (Bar Stock).
Spring	Standard.
Spring Retainer	AISI 304 or AISI 316.
Disc Seat	Metal to Metal, EPDM/Nitrile - soft seated for water and PTFE / viton - soft seated for oil & gases.
Pressure Rating	PN 40.
Flange Standard	1. BS 10 Table D,E & H (65NB & 80NB will not be fitted between 'E' flanges) 2. DIN : PN6, 10, 16, 25, 40. 3. JIS 5, 10, 16, 20 (40NB, 50NB, 80NB, & 100NB will not be fitted between JIS 5 flanges)

**Operations :**

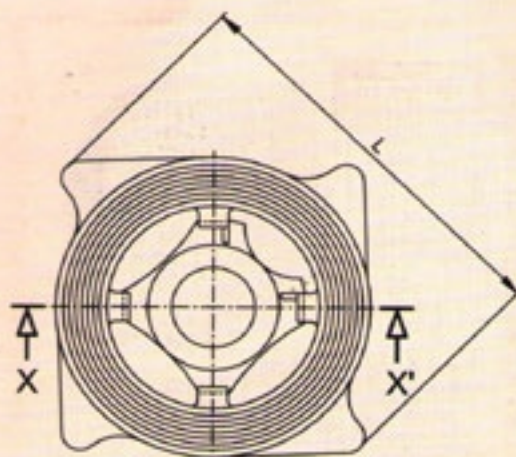
Disc Check Valves are opened by the pressure of the fluid and closed through compression spring as soon as flow stops thus preventing reverse flow.

**Standards :**

Designed and Manufactured in accordance with BS 7438



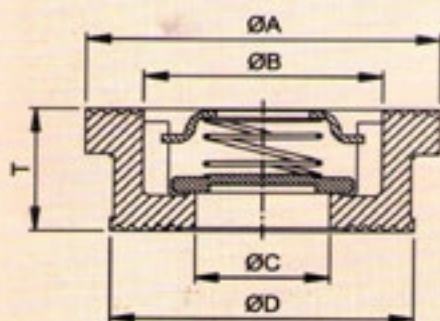
## Disc Check Valves "DCV" - Wafer Type

Disc Type Non Return Valves "NRV"  
Non Slam Check Valves

Dimensions :

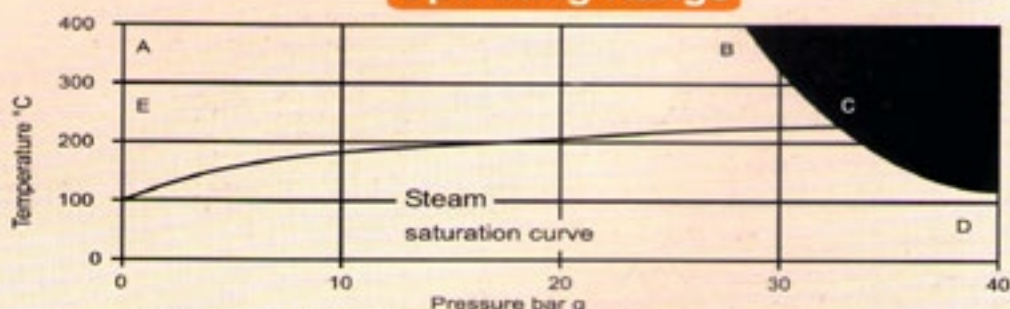
(All dimensions are in MM)

Valve Size	ØA	ØB	ØC	ØD	T	TH	L	F	Weight	
									S/E	Wafer Type
15 mm	43	29	15	38	16	1/2" BSP	60	68	0.400	0.120
20 mm	53	35.7	20	45	19	3/4" BSP	69.5	69	0.600	0.180
25 mm	63	44	25	55.5	22	1" BSP	80.5	77	0.900	0.280
32 mm	75	54.5	32	68	28	1 1/4" BSP	90.5	82.5	1.440	0.520
40 mm	85	65.5	39	79	33	1 1/2" BSP	101	99.5	1.960	0.680
50 mm	95	77	49	93	40	2" BSP	115	109	2.600	1.120
65 mm	115	97.5	65	113	46	2 1/2" BSP	142	141	4.460	1.580
80 mm	133	111.5	80	128	50	3" BSP	154	158	6.280	2.180
100 mm	154	130	99	148	60	4" BSP	184	196.5	8.540	3.400
125 mm	192	162	125	186	90	-	247.5	-	-	7.560
150 mm	223	192	150	223	105	-	On Req.	-	-	11.020
200 mm	298.5	250	200	298.5	140	-	On Req.	-	-	21.560



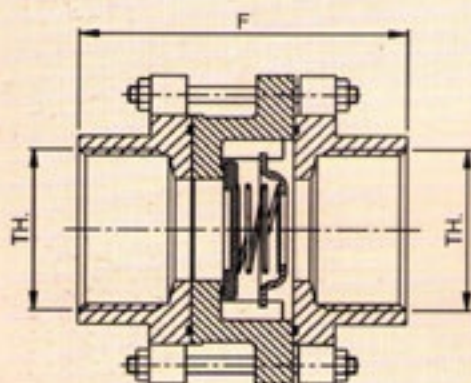
Section X X'

## Operating Range

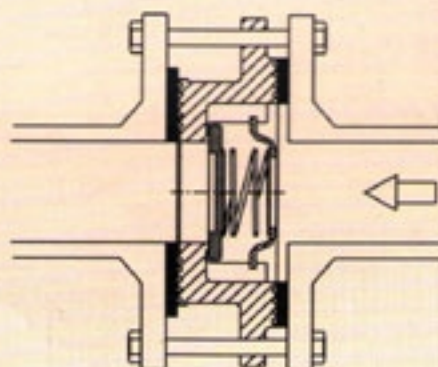
The product must not be used in the **C** region.

A - B - C - D = DCV without spring or with high temperature spring.

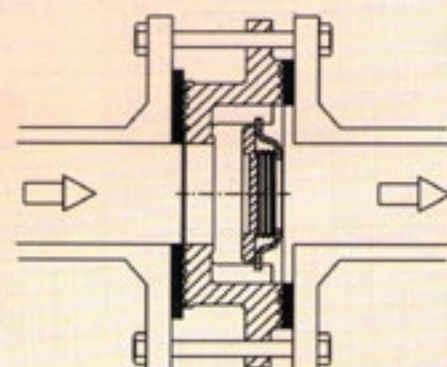
E - C - D = DCV with Standard Spring.



Screwed End



Closed Position



Open Position

Wafer Type

Operating Pressure : in m bar  
Differential Pressure With Zero Flow

DN	15MM	20MM	25MM	40MM	50MM	65MM	80MM	100MM	125 MM	150 MM	200 MM
↑	25	25	25	28	29	30	31	33	On Request		
→	22.5	22.5	22.5	24.5	24.5	25	25.5	26.5	On Request		
↓	20	20	20	20	20	20	20	20	On Request		

(→ indicates Flow direction)

The Valves can be installed , without spring in vertical pipe. Line with bottom to top flow,  
Where lowest opening pressures are required.

Without Spring :

DN	15MM	20MM	25MM	40MM	50MM	65MM	80MM	100MM	125 MM	150 MM	200 MM
↑	2.5	2.5	2.5	3.5	4	4.5	5.5	6.5	On Request		

(→ indicates Flow direction)