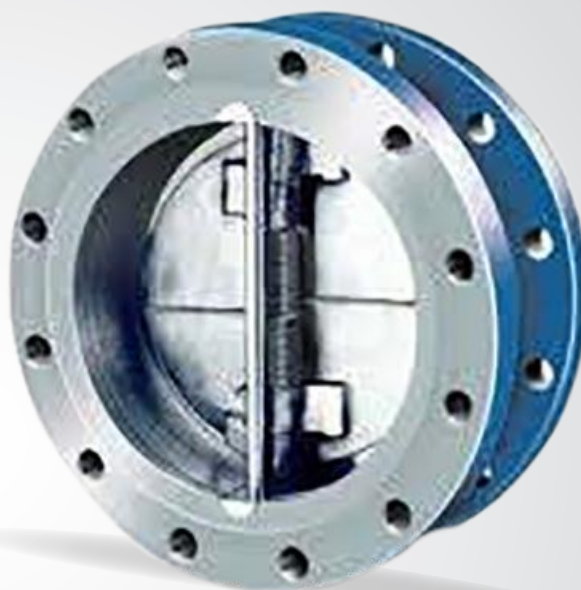


ECOLINE DPCV S

Dual Plate Check Valves

Applications

- Oil & Gas processing units
- Refineries
- LNG and Chemical storages
- Wellhead injection line & Oil rigs
- Sea water



Class 150-300 (2" to 48")

Product Features

- Streamlined flow
- Hindrance in flow would be less.
- No water hammer effect with this valve
- Valve can be mount in horizontally / Vertically (flow tending to open the disc)
- Disc seating by means of spring action.
- Less weight Compared to conventional check valve.
- Prevent backflow. Valve close before the fluid reverse flow

Design Feature

- Design Compliance to API 594
- Double Flanged and Wafer type. Lug type up on the request
- Metal seat and soft seat
- Retainer less design - no puncturing of body ensures no leakage / emission to outside.
- Flanges Acc. to ASME B16.5 up to 24". ASME B16.47 Series A over 24".
- Serrated finish 125 – 250 AARH or RTJ as per requirement
- Spring offers quick closing - No water hammer effect

Applications

- Oil & Gas processing units.
- Refineries
- For LNG and Chemical storages.
- Wellhead injection line & Oil rigs.
- Sea water

Data to be supplied for ordering

- Valve size
- Material
- Pressure / Temperature
- Service medium
- End connection type
- Flow

Material

Body	Body Seat (Integral)	Disc Plate	SPRING
A216 Gr WCB	A216 Gr WCB	A216 Gr WCB	INCONEL X750 AISI 316
A351 Gr CF8	A351 Gr CF8	A351 Gr CF8	
A351 Gr CF8M	A351 Gr CF8M,	A351 Gr CF8M	
	A216 Gr WCB+13% Cr.	A217 Gr CA15	
	A351 Gr CF8M+St 6	A216 Gr WCB+13% Cr.	
	A351 Gr CF8 +St 6	A351 Gr CF8M+St 6	
		A351 Gr CF8+St 6	
		A217 Gr CA15+St 6	

* Other MOC & Seat Material upon request

Soft Seat Temperature Range

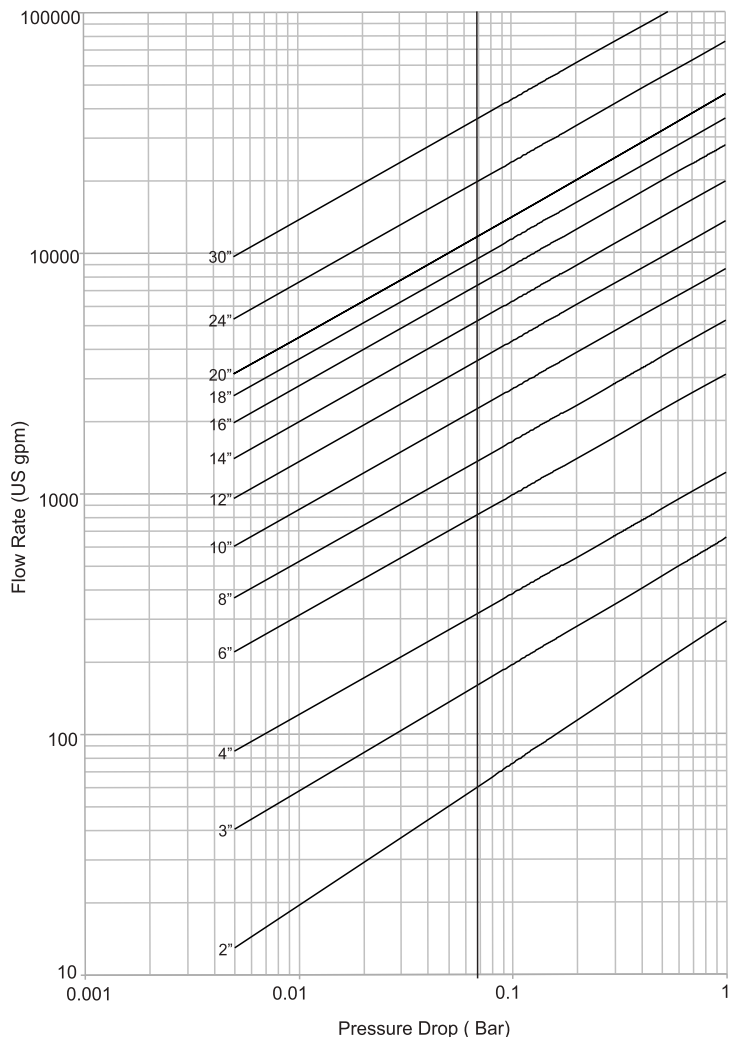
Material	Temp ° C	
	Minimum	Maximum
BUNA-N	-20° C	+80° C
EPDM	-20° C	+120° C
NEOPRENE	-10° C	+90° C

Cv Value

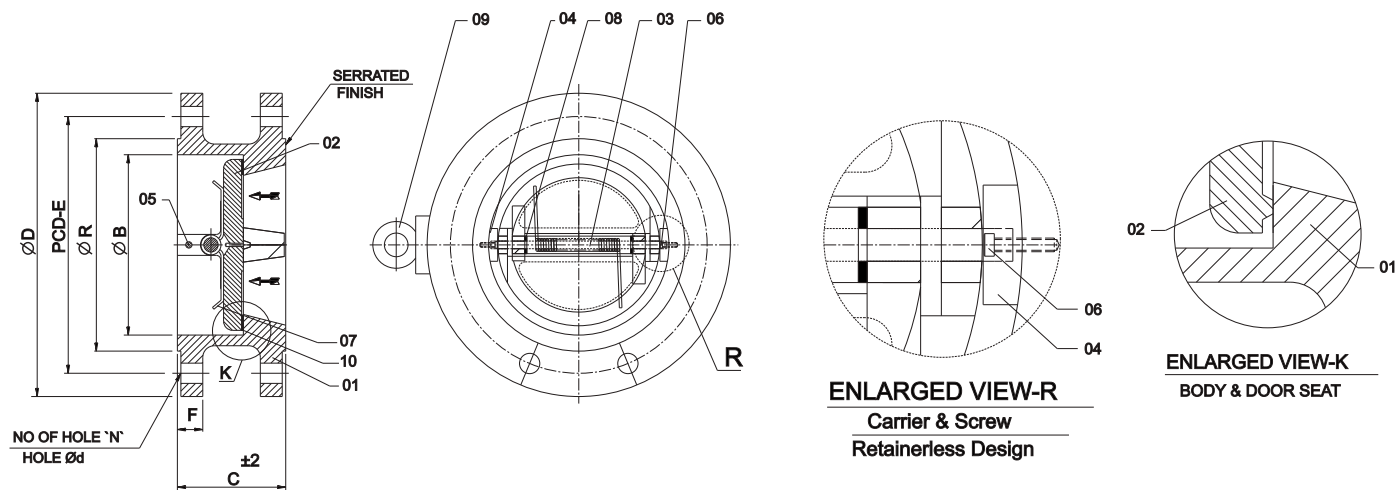
Size (NPS)	Class 150	Class 300
2	75	75
2.5	95	95
3	191	191
4	377	377
6	821	821
8	1590	1590
10	2920	2920
12	4470	4470
14	5870	5870
16	8690	8690
18	10940	10940
20	14290	14290
24	23000	23000
30	37200	37200

Cracking Pressure

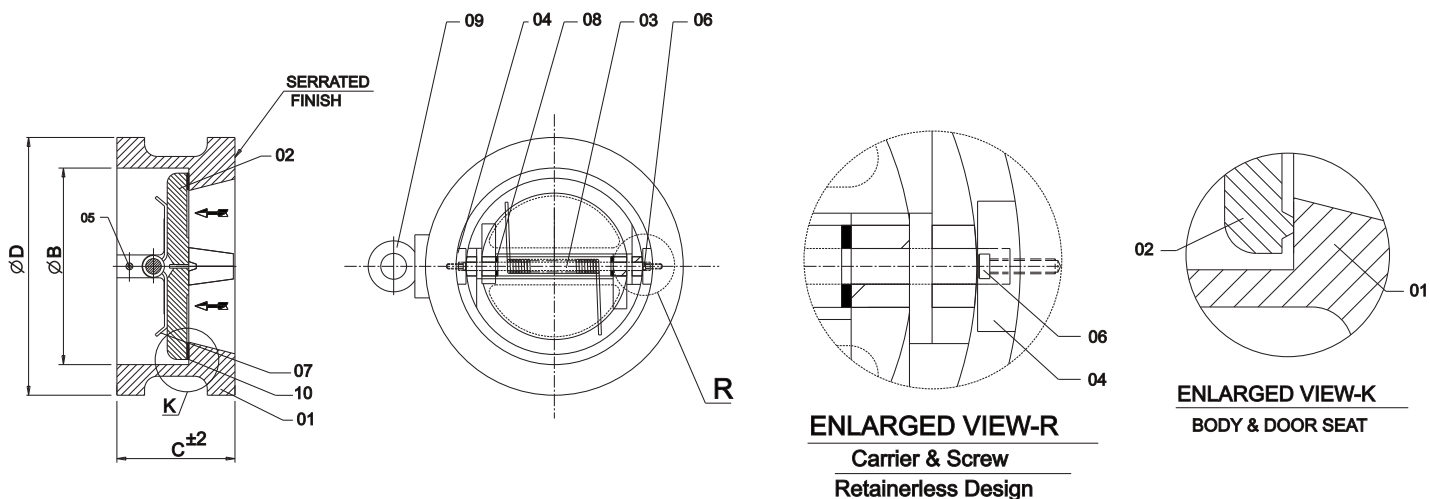
Size (NPS)	Cracking Pressure (PSI)
2"	0.15
2.5"	0.08
3"	0.14
4"	0.19
6"	0.08
8"	0.18
10"	0.21
12"	0.14
14"	0.11
16"	0.13
18"	0.13
20"	0.14
24"	0.15
30"	0.17



ANSI #150/300 - Flanged Design



ANSI #150/300 - Wafer Design



Bill of Material - #150/300

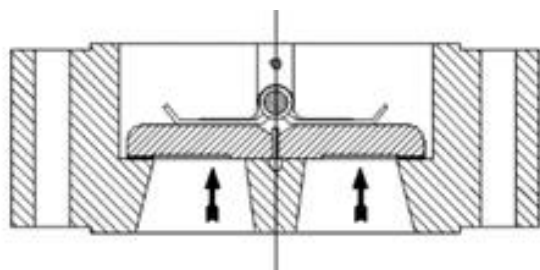
SN	Description	Material	
		Metal Seat	Soft Seat
1	Body	ASTM A216 Gr.WCB	ASTM A216 Gr.WCB
2	Plate	CA15/WCB+13%Cr. Facing	CA15/WCB+13%Cr. Facing
3	Hinge Pin	SS 410	SS 410
4	Carrier	SS 410	SS 410
5	Stop Pin	SS 410	SS 410
6	Screw	SS 410	SS 410
7	Spring	Inconel X750	Inconel X750
8	Bearing	SS 410	SS 410
9	Liftin Eye Bolt	A106	A106
10	Body Seal (Integral)	WCB+13% Cr. Facing	EPDM/Nitril/Neoprene

Dimensions - ANSI #150

Size	L	T	ØB	ØC	ØD FL	ØD Wafer	ØP P.C.D	N	Ød	Approx. Weight	
										Wafer	FL
2	60	16.3	60	92.1	150	101	120.7	4	19	4	6
2.5	67	-	73	104.8	180	120	139.7	4	19	6	7
3	73	-	90	127	190	130	152.4	4	19	7	8
4	73	-	114	157	230	171	190.5	8	19	11	21
6	98	25.9	168	215.9	280	218	241.3	8	22.3	18	28
8	127	29	226	270	345	276	298.5	8	22.3	40	42
10	146	30.6	274	323.8	405	328	362	12	25.4	68	72
12	181	32.2	324	381	485	406	431.8	12	25.4	76	78
14	184	35.4	365	412.8	535	447	476.3	12	28.6	114	158
16	191	37	387	469.9	595	511	539.8	16	28.6	149	190
18	203	40.1	457	533.4	635	545	577.9	16	31.8	185	243
20	219	43.3	508	584.2	700	600	635	20	31.8	225	295
24	222	48.1	591	692.2	815	714	749	20	35	309	426
30	305	74.7	743	857.3	984	875	914.2	28	35	600	1077
36	368	90.4	936	1022.3	1168	1048	1085.9	32	41	950	1380
42	432	96.8	1070	1193.8	1346	1219	1257.3	36	41	1500	2200
48	524	108	1200	1358.9	1511	1384	1422.4	44	41	2300	3080

Dimensions – ANSI #300

Size	L	T	ØB	ØC	ØD FL	ØD Wafer	ØP P.C.D	N	Ød	Approx. Weight	
										Wafer	FL
2	60	22.7	60	92.1	165	105	127	8	19	7	8
2.5	67	-	73	104.8	190	127	149.2	8	22.2	10	11
3	73	-	90	127	210	145	168.3	8	22.2	12	19
4	73	-	114	157	255	175	200	8	22.2	15	26
6	98	37	168	215.9	320	245	269.9	12	22.2	42	52
8	127	41.7	219	269.9	380	304	330.2	12	25.4	48	82
10	146	48.1	274	323.8	445	356	387.4	16	28.6	78	129
12	181	51.3	324	381	520	416	450.8	16	31.8	126	192
14	222	54.4	356	412.8	585	482	514.2	20	31.8	217	295
16	232	57.6	406	469.9	650	536	571.2	20	35	265	365
18	264	60.8	432	533.4	710	590	628.2	24	35	334	455
20	292	64	483	584.2	775	645	685.2	24	35	422	572
24	318	70.3	591	692.2	915	771	812.2	24	41.3	680	907
30	368	92	695	857.2	1090	944	997	28	47.6	1083	1351
36	483	104.6	914	1022.3	1270	1112	1168.4	32	53.8	2024	2460
42	568	119.1	1016	1136.6	1289	1160	1206.5	32	44.5	2190	2640
48	629	133.4	1118	1301.7	1467	1319	1371.6	32	50.8	4111	4513



* For 2 ½", 3" & 4" FL end, through holes will be provided for mounting.

INSTRUCTIONS :

- Dual Plate Check Valves must be installed with the flow direction. Assembling with wrong direction will cause non-opening if disc.
- The preferred orientation is vertical upward flow or horizontal. The valve shall be installed on other orientations. Installation upside-down is not recommended. If installed horizontal, pins must be vertical.
- Personnel making any adjustments on the valves should wear safety equipment normally used to work with fluid in the line where the valve is installed.
- Depressurize, drain and vent of the line, before removing the valve from the line.
- Valve standards, such as API and MSS, caution users of the successful completion of removing a valve from a line.



WARNING ON NACE CONVERSIONS :

It is extremely important to ensure that valves, when converted to NACE trims in the field are done by authorized service shops. Unauthorized conversions can result in Failure to carryout post-weld heat treatment and result in severe stress cracks in Non-stress relieved areas.



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