

ECOLINE BSGL-S

Bellow Seal Globe Valves

- Nuclear and Thermal Power Plants
- Food industries
- Pharmaceutical Industries
- Refineries
- LPG & LNG
- Chemical and Petrochemical Industries
- Hazardous & Corrosive Chemicals
- Paper & Pulp Industries
- Vacuum Services

Cast Globe Valve
Class 150 / 300 - 2" to 12"
Forged Globe Valve
Class 800 - ½" to 2"



ECOLINE BSGL-S

Bellow Seal Globe Valves

■ Product Features

- Double Sealing (Bellows and Gland Packing) ensures minimum leakage from the valve
- Stem Covered with Bellows ensures process fluid not in contact with gland area
- Best Suited for Hazardous / Chlorine / Ammonia / Cryogenic / Vacuum & Terminal Liquid and Vapour Phase Operation
- Bellows reduces the shock load to the trim parts which increase the life of trim
- As the emission from the valve is very minimum, environment is protected from toxic substances

■ Design Feature

- Cast Globe valve Designed to BS 1873
- Forged Globe valve designed to API 602
- Flanges Acc. to ASME B16.5
- Face to Face Acc to ASME 16.10
- Socket Weld end Acc to ASME 16.11
- Testing Acc to API 598
- Bellows Cycle Acc to MSS-SP-117

■ Variants

- Electrical & Pneumatic Actuators
- Butt-weld End
- Threaded End
- Locking Arrangements
- Gear Box

■ Applications

- Nuclear and Thermal Power Plants
- Food industries
- Pharmaceutical Industries
- Refineries
- LPG & LNG
- Chemical and Petrochemical Industries
- Hazardous & Corrosive Chemicals
- Paper & Pulp Industries
- Vacuum Services

■ Data to be supplied for ordering

- Valve Type
- Valve size
- Pressure Class
- Valve Bore
- Material
- Pressure / Temperature
- Service medium
- End connection type
- Other Requirements

■ Materials

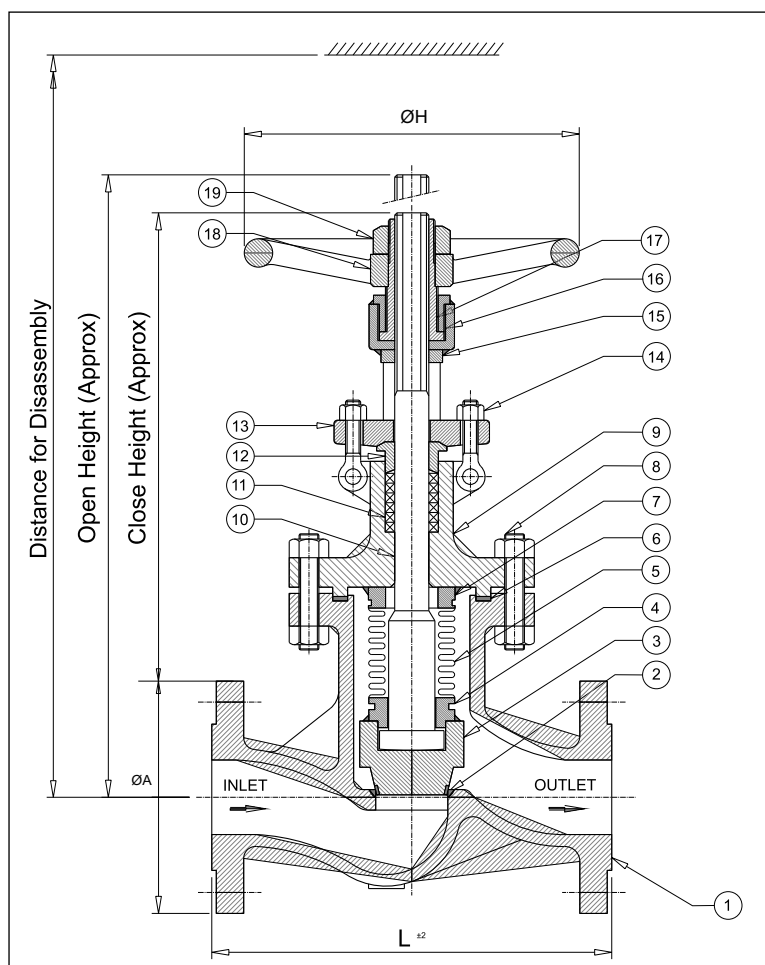
- ASTM A216 Gr WCB (0 °C to 425 °C)
- ASTM A216 Gr WCC (0 °C to 425 °C)
- ASTM A351 Gr CF8 (0 °C to 538 °C)
- ASTM A351 Gr CF8M (0 °C to 538 °C)
- ASTM A105 (0 °C to 425 °C)
- ASTM A182 Gr F304 (0 °C to 538 °C)
- ASTM A182 Gr F316 (0 °C to 538 °C)
- Other Materials on Request

■ Bellow Materials

- ANSI 316 (Ti) (Other Material on request)



Cast Globe



Bill of Material

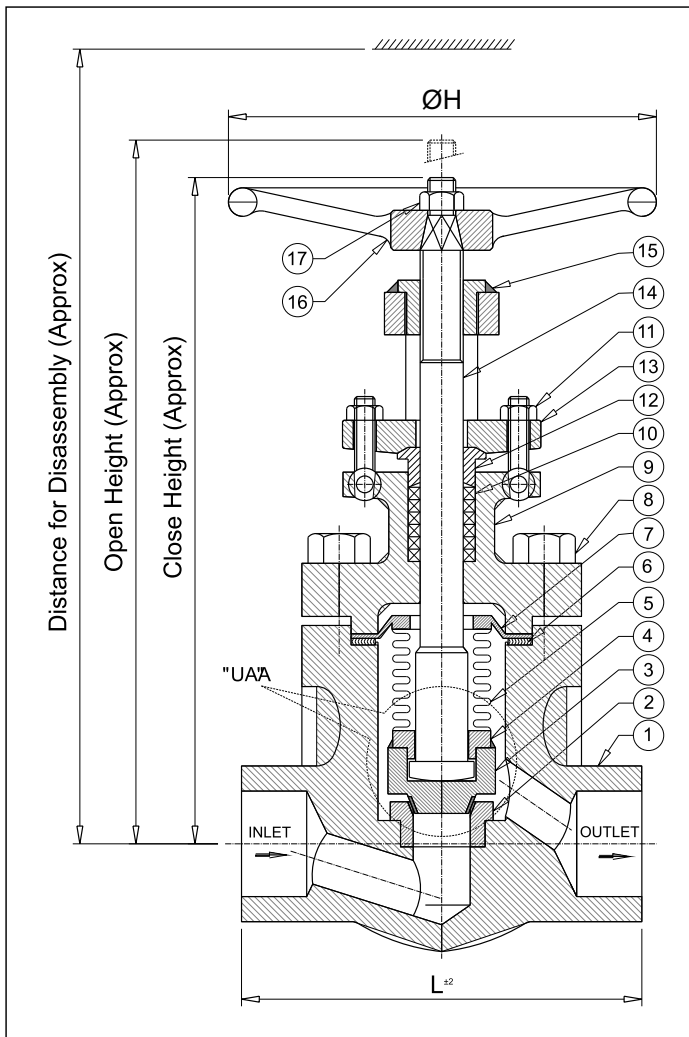
SN	Part Name	Material
1	Body	ASTM A216 Gr. WCB
2	seat	WCB+STELLITE
3	Plug	AISI 410+STELLITE
4	Bottom Bellow Collar	AISI 316
5	Bellow	AISI 316 Ti
6	Gasket	S.S 304 + Graphoil
7	Top Bellow Collar	AISI 316
8	Fasteners	ASTM A 193 Gr. B7/194 Gr.2H
9	Bonnet	ASTM A216 Gr. WCB
10	Stem	AISI 410
11	Gland Packing	Graphoil
12	Gland Bush	AISI 410
13	Gland Flange	Carbon Steel
14	Eye Bolt & Nut	ASTM A 193 Gr. B7/194 Gr.2H
15	Lock Plate	Carbon Steel
16	Yoke Sleeve	S.G Iron / Carbon Steel
17	Yoke Nut	Carbon Steel
18	Hand Wheel	M.I / S.G Iron / C.S.
19	Hand Wheel Nut	Carbon Steel

ANSI #150

Size	ØA	L	Close Height	Open Height	ØH	Approx Weight	Distance to Dismantle	Cv Values
2"	150	203	364	380	250	26	450	35
3"	190	241	433	453	250	48	595	92
4"	230	292	487	563	350	71	675	180
6"	280	406	554	635	400	130	800	430
8"	345	495	683	774	400	201	890	810
10"	405	622	762	782	400	311	1300	1070
12"	485	698	860	880	400	413	1450	1950

ANSI #300

Size	ØA	L	Close Height	Open Height	ØH	Approx Weight	Distance for Disassembly	Cv Values
2"	165	267	330	345	350	28	450	35
3"	210	318	425	445	400	53	170	92
4"	255	356	456	482	400	79	210	180
6"	320	444	525	565	400	156	250	370
8"	380	559	605	655	400	260	270	695
10"	445	622	910	980	400	530	290	1065
12"	520	711	1010	1090	400	610	360	1640



Bill of Material

SN	Part Name	Material
1	Body	ASTM A105
2	Seat	AISI 410+STELLITE
3	Plug	AISI 410+STELLITE
4	Bottom Bellow Collar	AISI 316
5	Bellow	AISI 316 Ti
6	Gasket	S.S 304 + Graphoil
7	Top Bellow Collar	AISI 316
8	Fasteners	ASTM A 193 Gr. B7/194 Gr.2H
9	Bonnet	ASTM A105
10	Gland Packing	Graphoil
11	Eye Bolt & Nut	ASTM A 193 Gr. B7/194 Gr.2H
12	Gland Bush	AISI 410
13	Gland Flange	Carbon Steel
14	Stem	AISI 410
15	Yoke Nut	Carbon Steel
16	Hand Wheel	M.I / S.G Iron / C.S.
17	Hand Wheel Nut	Carbon Steel

** For #800 valve, maximum pressure is limited to 80 Bar

Size	L	Close Height	Open Height	ØH	Approx Weight	Distance for Disassembly	Cv Values
1/2"	92	165	172	100	2	60	2
3/4"	92	165	172	100	2	60	3
1"	108	175	184	100	3.5	70	4
1 1/2"	126	250	266	150	9.5	90	15
2"	142	260	272	150	11.4	90	30

KSB Limited

Manufacturing Plants

Head Office & Pimpri :

Irrigation & Process Division
Mumbai-Pune Road, Pimpri,
Pune - 411 018.
Tel.: 020-2710 1000 Fax : 020-2742 6000

Chinchwad :

Power Projects Division
D-II Block, MIDC Chinchwad,
Pune - 411 019.
Tel.: 020-2740 9100 Fax : 020-2747 0890

Khandala :

Energy Pumps Division
A1, MIDC Khandala Phase II,
Village Kesurdi, Tal. Khandala,
Satara - 412 802.
Tel. : 02169 -246800

Coimbatore :

Valves Division
151, Mettupalayam Road,
NSN Palayam Post,
Coimbatore - 641 031.
Tel.: 0422-2468222, 2468547-9
Fax : 0422-2468232

Sinnar :

Standard Pumps Division
Plot No. E-3 & E-4, MIDC Sinnar,
Nashik - 422 113.
Tel.: 02551-230252 / 53, 229700
Fax : 02551-230254

Vambori :

Foundry Division
Vambori, Ahmednagar - 413 704.
Tel.: 02426-272534, 272550, 272463
Fax : 02426-272043

Regd. Office :

Office No. 601, Runwal R-Square,
L.B.S. Marg, Mulund (West),
Mumbai- 400 080, Tel.: 022-2168 1300

Zonal Offices :

East :

30, Circus Avenue, 2nd Floor,
Kolkata - 700 017.
Tel.: 033-2287 0473, 2290 0117
Fax : 033-2287 0588

West :

Office No. 601, Runwal R-Square,
L.B.S. Marg, Mulund (West),
Mumbai- 400 080, Tel.: 022-2168 1300

North :

KSB House, A-96, Sector IV, NOIDA, Dist.
Gautam Budh Nagar - 201 301.
Tel.: 0120-254 1091 Fax : 0120-255 0567

South :

Guindy House, II Floor, # 92 Anna Salai,
Chennai - 600 032.
Tel.: 044-2235 2571-2, 2235 5673
Fax : 044-2235 2749

Service Stations :

Chennai :

6, Self-help Industrial Estate,
Keelkattalai, Near Keelkattalai - Palla-
varam Radial Road Signal junction,
Chennai 600 117
Tel. 044-22681159

Howrah :

Sadananda Industrial Estate
Howrah Amta Road, Balitikuri, Bakultala
Howrah - 711 113, West Bengal

NOIDA :

KSB House, A-96, Sector IV, NOIDA,
Dist. Gautam Budh Nagar - 201 301.
Tel.: 0120-2471 600
Fax : 0120-255 0567

Odhav :

Shed No. 22, Gujarat Vepari
Mahamandal, Odhav,
Ahmedabad - 382 410.
Tel.: 079-2290 0372
Fax : 079-2290 0749

Chinchwad :

Power Projects Division
D-II Block, MIDC Chinchwad,
Pune - 411 019.
Tel.: 020-2740 9100 Fax : 020-2747 0890

Baddi :

Plot No. 73, DIC Industrial Area, Baddi,
Distt. Solan, Himachal Pradesh -173 205
Tel. : +91 98764 12714

Branch Offices :

Ahmedabad :

Shed No. 22, Gujarat Vepari
Mahamandal, Odhav,
Ahmedabad - 382 410.
Tel.: 079-2290 0707, 2290 0717

Aurangabad :

Plot No. P-204, Shivshankar Colony,
Near Hotel Sayli,
Aurangabad - 431 005.
Tel.: 0240-235 1440, 234 2447
Fax : 0240-235 1440

Bangalore :

2nd Floor, Plot No.69/A, Service Road,
West of Chord Road, 2nd Stage,
Bangalore - 560 086
Tel.: 080-2349 1806, 2349 3925
Fax : 080-2349 6036

Baroda :

4-B, Ramkrishna Chamber,
Productivity Road, Baroda - 390 005.
Tel.: 0265-233 0532, 233 3226
Fax : 0265-235 0002

Bhubaneswar :

N5/39,1st Floor, IRC Village, Nayapalli,
Bhubaneswar - 751 015.
Tel.: 0674-255 8497
Fax : 0674-255 8499

Chandigarh :

SCO - 189, 2nd Floor, Sector - 7C,
Chandigarh - 160 019.
Tel. / Fax : 0172-279 0072, 279 0062

Indore :

B-14, Ratlam Kothi, Kanchan Baug Road,
Indore - 452 001.
Tel.: 0731-252 9478, 252 9704
Fax : 0731-252 9704

Jaipur :

Anjali Chambers, 2nd Floor, Block C,
10, Rajbhawan Road, Civil Lines,
Jaipur - 302 001.
Tel.: 0141-222 4554, 222 4904
Fax : 0141-222 4904

Jamshedpur :

Flat No: 3/1, 3rd Floor, Plot No: 20,
Road No: 2, Sonari West Layout,
Jamshedpur - 831011.
Tel.: 0657-231 4012, 231 4011
Fax : 0657-231 7128

Lucknow :

309, Chintels House, 16, Station Road,
Lucknow - 226 001.
Tel.: 0522-263 5203, 263 5597
Fax : 0522-263 5597

Mumbai :

Office No. 601, Runwal R-Square,
L.B.S. Marg, Mulund (West),
Mumbai- 400 080, Tel.: 022-2168 1300

Nagpur :

203, Suryakiran Complex, Bajaj Nagar,
Nagpur - 440 010.
Tel.: 0712-223 6889, 222 9148
Fax : 0712-222 9148

Pune :

Mumbai-Pune Road, Pimpri,
Pune - 411 018.
Tel.: 020-2710 1000 Fax : 020-2742 6000

Raipur :

1 floor, E-5, Sector-5, Devender Nagar,
Raipur, Chhattisgarh - 492009
Tel.: 0771-258 3658, 258 3921
Fax : 0771-258 3921

Secunderabad :

D. No. 12-13-197, 198,
Flat No. 103 & 104, 1st Floor,
Pavani Anusuya Towers, Tarnaka,
Secunderabad - 500 017.
Tel.: 040-2700 1724, 2700 3696
Fax : 040-2700 1725

Ernakulam (Kochi):

Ground Floor, D/No 22/241 (S),
Tamrind Rajadhani, Pulinchode,
Aluva, Ernakulam - 683 101 (India)
Tel.: 62353 55500



KSB Limited Valves Division

151, Mettupalayam Road, NSN Palayam Post, Coimbatore - 641 031.
Tel.: 0422-2468222, 2468547-9 Fax : 0422-2468232 | www.ksbindia.co.in

Our toll free no : 1800 233 1299
(Mon - Sun. 8 am to 8 pm)

Mktg. Services /02-22/500

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- Vacuum Services

Cast Gate Valve
Class 150 / 300 - 2" to 12"

Forged Gate Valve
Class 800 - ½" to 2"



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Bellow Seal Gate Valves

Product Features

- Double Sealing (Bellows and Gland Packing) ensures minimum leakage from the valve
- Stem Covered with Bellows ensures process fluid not in contact with gland area
- Best Suited for Hazardous / Chlorine / Ammonia / Cryogenic / Vacuum & Terminal Liquid and Vapour Phase Operation
- Bellows reduces the shock load to the trim parts which increase the life of trim
- As the emission from the valve is very minimum, environment is protected from toxic substances

Design Feature

- Cast Gate valve designed to API 600
- Forged Gate/Globe valve designed to API 602
- Flanges Acc. to ASME B16.5
- Face to Face Acc to ASME 16.10
- Socket Weld end Acc to ASME 16.11
- Testing Acc to API 598
- Bellows Cycle Acc to MSS-SP-117

Variants

- Electrical & Pneumatic Actuators
- Butt-weld End
- Threaded End
- Locking Arrangements
- Gear Box

Applications

- Nuclear and Thermal Power Plants
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- Pharmaceutical Industries
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- LPG & LNG
- Chemical and Petrochemical Industries
- Hazardous & Corrosive Chemicals
- Paper & Pulp Industries
- Vacuum Services

Data to be supplied for ordering

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- Valve size
- Pressure Class
- Valve Bore
- Material
- Pressure / Temperature
- Service medium
- End connection type
- Other Requirements

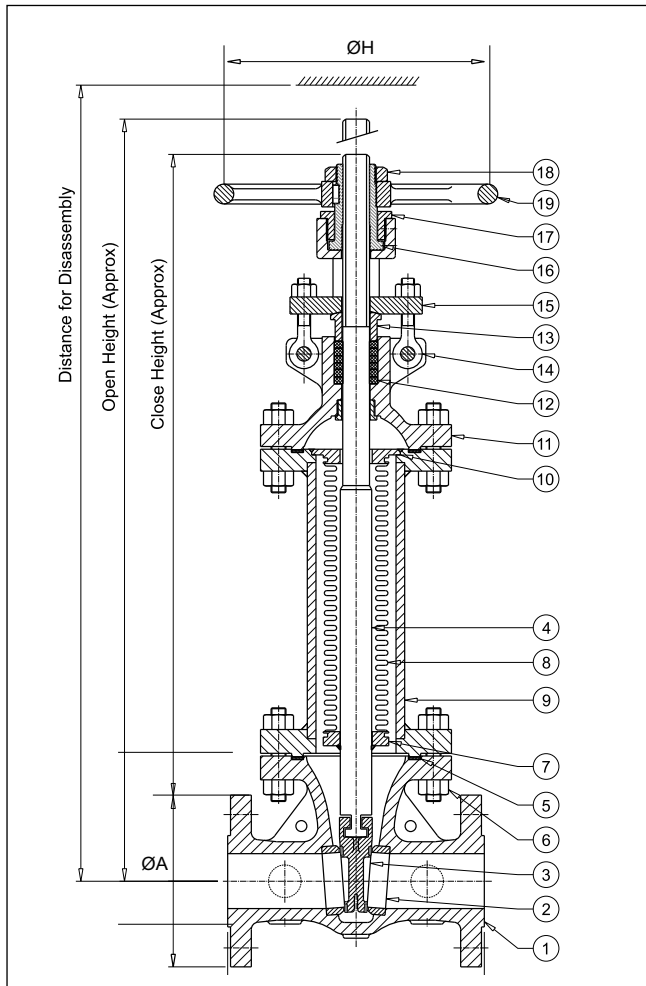
Materials

- ASTM A216 Gr WCB (0 °C to 425 °C)
- ASTM A216 Gr WCC (0 °C to 425 °C)
- ASTM A351 Gr CF8 (0 °C to 538 °C)
- ASTM A351 Gr CF8M (0 °C to 538 °C)
- ASTM A105 (0 °C to 425 °C)
- ASTM A182 Gr F304 (0 °C to 538 °C)
- ASTM A182 Gr F316 (0 °C to 538 °C)
- Other Materials on Request

Bellow Materials

- ANSI 316 (Ti) (Other Material on request)





Bill of Material

SN	Part Name	Material
1	Body	ASTM A216 GR.WCB
2	Seat	AISI 410+STELLITE
3	Wedge	WCB / CA15+STELLITE
4	Stem	AISI 410
5	Gasket	S.S 304 + Graphoil
6	Fasteners	ASTM A 193 Gr. B7/194 Gr.2H
7	Bottom Bellow Collar	AISI 316
8	Bellow	AISI 316 Ti
9	Cylinder	Carbon Steel
10	Top Bellow Collar	AISI 316
11	Bonnet	ASTM A216 GR.WCB
12	Gland Packing	Graphoil
13	Gland Bush	AISI 410
14	Eye Bolt Nut	ASTM A 193 Gr. B7 / 194 Gr.2H
15	Gland Flange	Carbon Steel
16	Yoke Sleeve	Carbon Steel
17	Yoke Nut	Carbon Steel
18	Hand Wheel Nut	Carbon Steel
19	Hand Wheel	M.I / S.G Iron

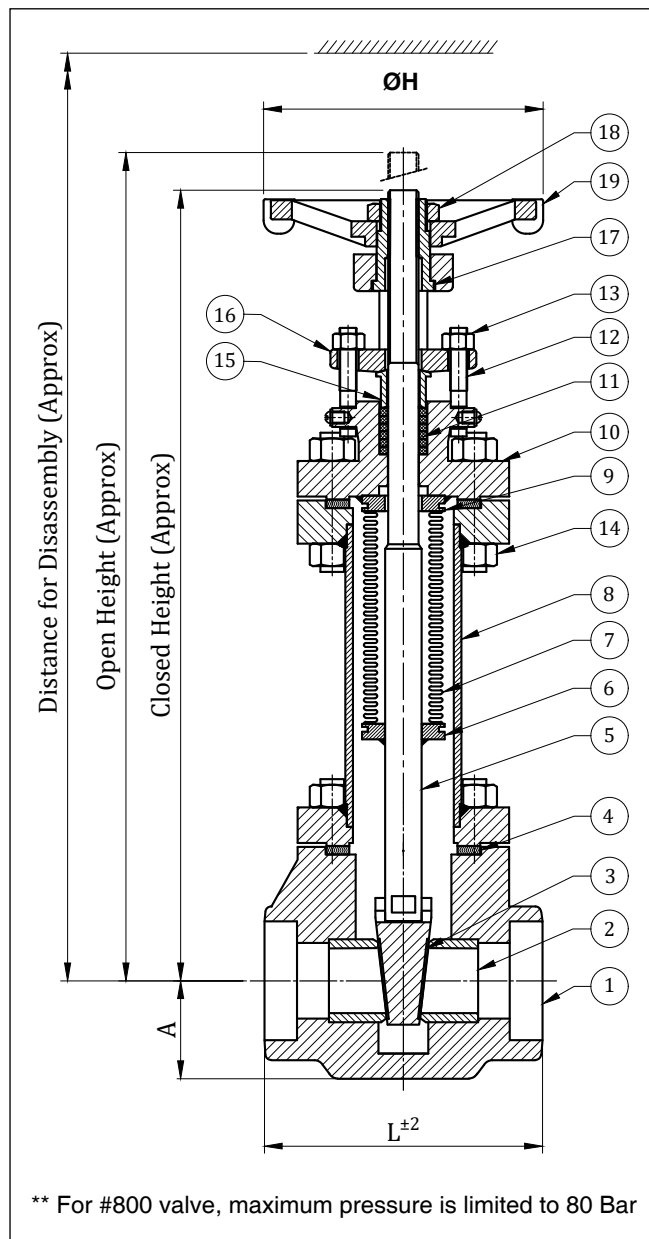
ANSI #150

Size	ØA	L	Close Height	Open Height	ØH	Approx Weight	Distance to Dismantle	Cv Values
2"	150	178	461.5	512.3	200	46	521.5	260
3"	190	203	626.8	703.3	250	59	701.3	625
4"	230	229	816.5	918.5	350	81	904.5	1150
6"	280	267	1090	1242.5	400	154	1205	2650
8"	345	292	1250.3	1453.3	400	246	1395.3	4850
10"	405	330	1576.5	1826.5	400	376	1743	7750
12"	485	356	1825.5	2130	400	530	2019.5	11500

ANSI #300

Size	ØA	L	Close Height	Open Height	ØH	Approx Weight	Distance for Disassembly	Cv Values
2"	165	216	466.5	518.5	200	51	526.5	260
3"	210	282	651.6	727.6	250	79	725.9	625
4"	255	305	840	942	350	103	928	1150
6"	320	403	1132	1284	400	202	1247	2650
8"	380	419	1399.4	1603.4	400	312	1544.4	4850
10"	445	457	1686	1940	400	485	1852.5	7750
12"	520	502	2152.5	2457.5	450	665	2346.5	11500

Forged Gate - ANSI #800



Bill of Material

SN	Part Name	Material
1	Body	ASTM A105
2	Seat	AISI 410+STELLITE
3	Wedge	AISI 410 / CA15+STELLITE
4	Gasket	S.S 304 + Graphoil
5	Stem	AISI 410
6	Bottom Bellow Collar	AISI 316
7	Bellow	AISI 316 Ti
8	Cylinder	Carbon Steel
9	Top Bellow Collar	AISI 316
10	Bonnet	ASTM A105
11	Gland Packing	Graphoil
12	Eye Bolt	ASTM A 193 Gr. B7
13	Eye Bolt Nut	ASTM A 194 Gr.2H
14	Fastners	ASTM A 193 Gr. B7/194 Gr.2H
15	Gland Bush	AISI 410
16	Gland Flange	Carbon Steel
17	Yoke Sleeve	Carbon Steel
18	Hand Wheel Nut	Carbon Steel
19	Hand Wheel	M.I / S.G Iron / C.S.

Size	A	L	Close Height	Open Height	ØH	Approx Weight (Kg)	Distance to Dismantle	Cv Values
1/2"	26.4	92	250	268	100	3	316	7
3/4"	26.4	92	250	268	100	3.6	316	14
1"	32.7	108	280	301	100	4.3	344	29
1 1/2"	47	126	363	398	150	9.1	450	93
2"	47	142	383	423	150	13.4	464	155

KSB Limited

Manufacturing Plants

Head Office & Pimpri :

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Pune - 411 018.
Tel.: 020-2710 1000 Fax : 020-2742 6000

Chinchwad :

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Pune - 411 019.
Tel.: 020-2740 9100 Fax : 020-2747 0890

Khandala :

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A1, MIDC Khandala Phase II,
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Satara - 412 802.
Tel. : 02169 -246800

Coimbatore :

Valves Division
151, Mettupalayam Road,
NSN Palayam Post,
Coimbatore - 641 031.
Tel.: 0422-2468222, 2468547-9
Fax : 0422-2468232

Sinnar :

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Fax : 044-2235 2749

Service Stations :

Chennai :

6, Self-help Industrial Estate,
Keelkattalai, Near Keelkattalai - Palla-
varam Radial Road Signal junction,
Chennai 600 117
Tel. 044-22681159

Howrah :

Sadananda Industrial Estate
Howrah Amta Road, Balitikuri, Bakultala
Howrah - 711 113, West Bengal

NOIDA :

KSB House, A-96, Sector IV, NOIDA,
Dist. Gautam Budh Nagar - 201 301.
Tel.: 0120-2471 600
Fax : 0120-255 0567

Odhav :

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Baddi :

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Distt. Solan, Himachal Pradesh -173 205
Tel. : +91 98764 12714

Branch Offices :

Ahmedabad :

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Ahmedabad - 382 410.
Tel.: 079-2290 0707, 2290 0717

Aurangabad :

Plot No. P-204, Shivshankar Colony,
Near Hotel Sayli,
Aurangabad - 431 005.
Tel.: 0240-235 1440, 234 2447
Fax : 0240-235 1440

Bangalore :

2nd Floor, Plot No.69/A, Service Road,
West of Chord Road, 2nd Stage,
Bangalore - 560 086
Tel.: 080-2349 1806, 2349 3925
Fax : 080-2349 6036

Baroda :

4-B, Ramkrishna Chamber,
Productivity Road, Baroda - 390 005.
Tel.: 0265-233 0532, 233 3226
Fax : 0265-235 0002

Bhubaneswar :

N5/39,1st Floor, IRC Village, Nayapalli,
Bhubaneswar - 751 015.
Tel.: 0674-255 8497
Fax : 0674-255 8499

Chandigarh :

SCO - 189, 2nd Floor, Sector - 7C,
Chandigarh - 160 019.
Tel. / Fax : 0172-279 0072, 279 0062

Indore :

B-14, Ratlam Kothi, Kanchan Baug Road,
Indore - 452 001.
Tel.: 0731-252 9478, 252 9704
Fax : 0731-252 9704

Jaipur :

Anjali Chambers, 2nd Floor, Block C,
10, Rajbhawan Road, Civil Lines,
Jaipur - 302 001.
Tel.: 0141-222 4554, 222 4904
Fax : 0141-222 4904

Jamshedpur :

Flat No: 3/1, 3rd Floor, Plot No: 20,
Road No: 2, Sonari West Layout,
Jamshedpur - 831011.
Tel.: 0657-231 4012, 231 4011
Fax : 0657-231 7128

Lucknow :

309, Chintels House, 16, Station Road,
Lucknow - 226 001.
Tel.: 0522-263 5203, 263 5597
Fax : 0522-263 5597

Mumbai :

Office No. 601, Runwal R-Square,
L.B.S. Marg, Mulund (West),
Mumbai- 400 080, Tel.: 022-2168 1300

Nagpur :

203, Suryakiran Complex, Bajaj Nagar,
Nagpur - 440 010.
Tel.: 0712-223 6889, 222 9148
Fax : 0712-222 9148

Pune :

Mumbai-Pune Road, Pimpri,
Pune - 411 018.
Tel.: 020-2710 1000 Fax : 020-2742 6000

Raipur :

1 floor, E-5, Sector-5, Devender Nagar,
Raipur, Chhattisgarh - 492009
Tel.: 0771-258 3658, 258 3921
Fax : 0771-258 3921

Secunderabad :

D. No. 12-13-197, 198,
Flat No. 103 & 104, 1st Floor,
Pavani Anusuya Towers, Tarnaka,
Secunderabad - 500 017.
Tel.: 040-2700 1724, 2700 3696
Fax : 040-2700 1725

Ernakulam (Kochi):

Ground Floor, D/No 22/241 (S),
Tamrind Rajadhani, Pulinchode,
Aluva, Ernakulam - 683 101 (India)
Tel.: 62353 55500



KSB Limited
Valves Division

151, Mettupalayam Road, NSN Palayam Post, Coimbatore - 641 031.
Tel.: 0422-2468222, 2468547-9 Fax : 0422-2468232 | www.ksbindia.co.in

Our toll free no : 1800 233 1299
(Mon - Sun. 8 am to 8 pm)

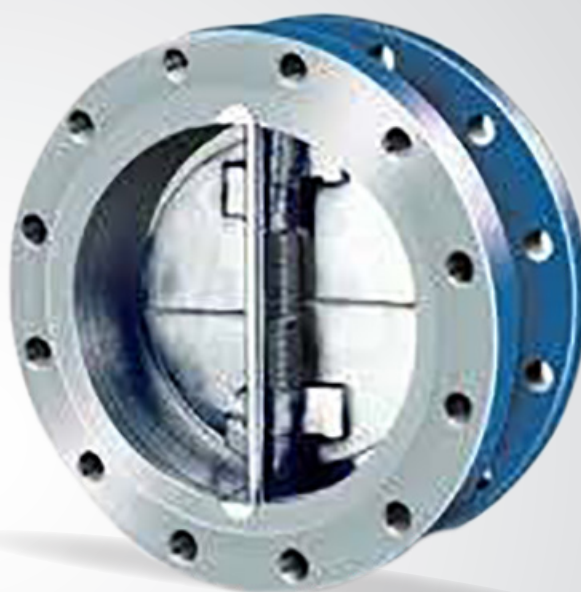
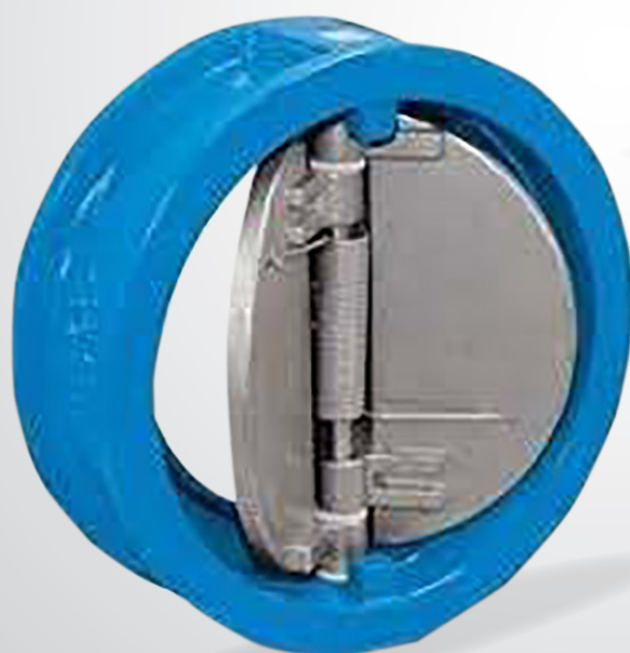
Mktg. Services /02-22/500

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

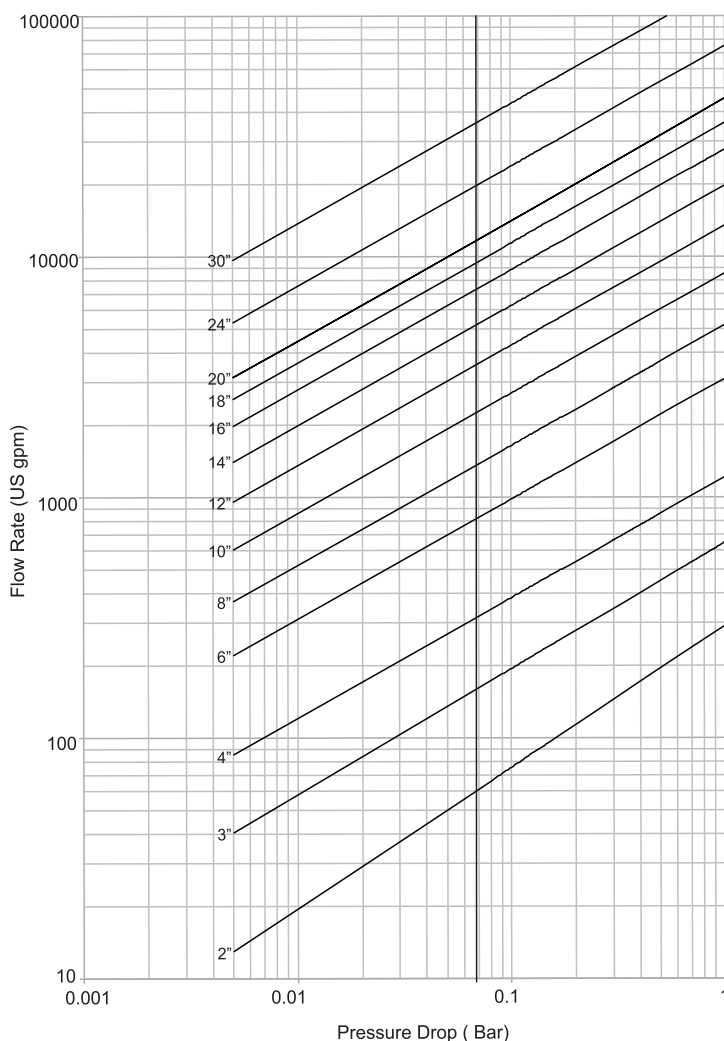
Material	Temp ° C	
	Minimum	Maximum
BUNA-N	-20° C	+80° C
EPDM	-20° C	+120° C
NEOPRENE	-10° C	+90° C

Cv Value

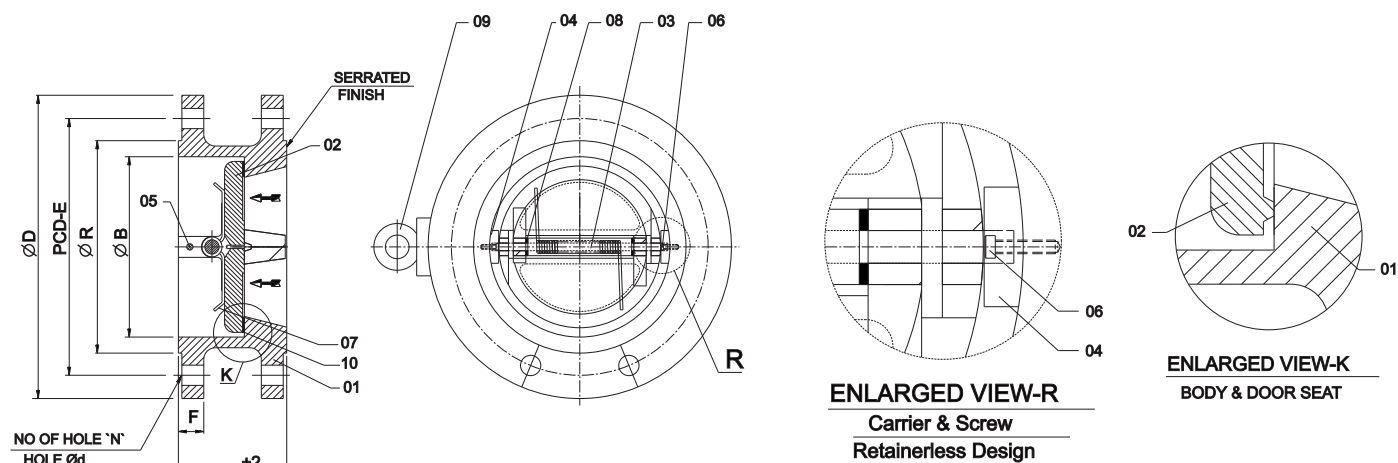
Size (NPS)	Class 150	Class 300
2	75	75
2.5	95	95
3	191	191
4	377	377
6	821	821
8	1590	1590
10	2920	2920
12	4470	4470
14	5870	5870
16	8690	8690
18	10940	10940
20	14290	14290
24	23000	23000
30	37200	37200

Cracking Pressure

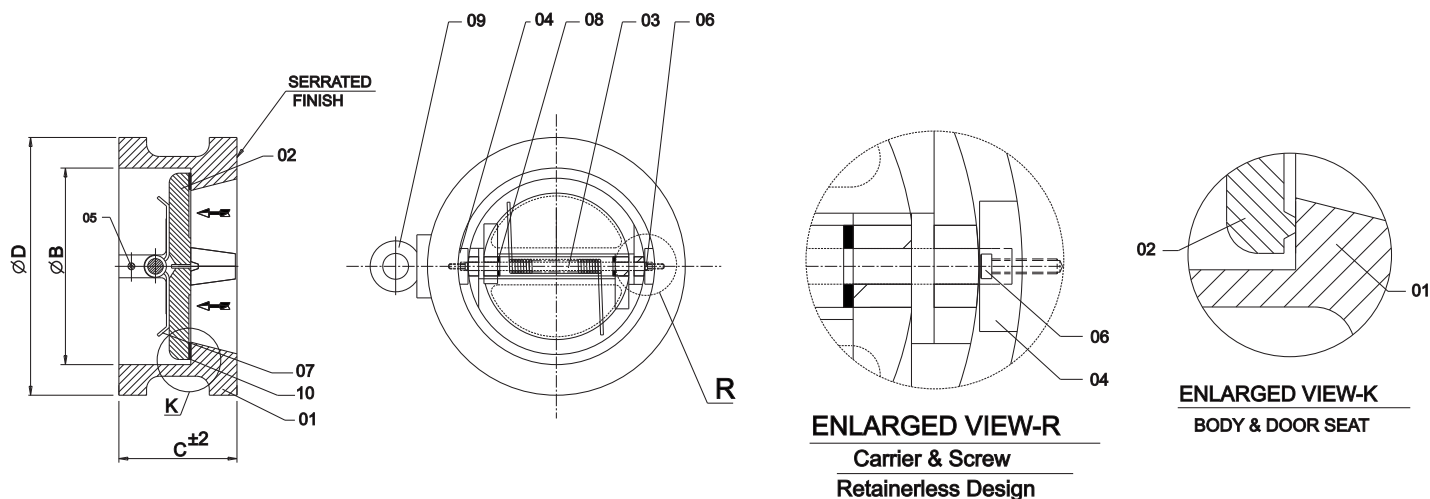
Size (NPS)	Cracking Pressure (PSI)
2"	0.15
2.5"	0.08
3"	0.14
4"	0.19
6"	0.08
8"	0.18
10"	0.21
12"	0.14
14"	0.11
16"	0.13
18"	0.13
20"	0.14
24"	0.15
30"	0.17



ANSI #150/300 - Flanged Design



ANSI #150/300 - Wafer Design



Bill of Material - #150/300

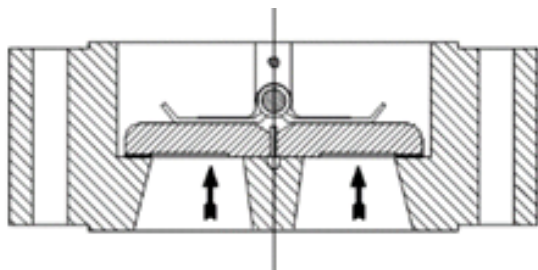
SN	Description	Material	
		Metal Seat	Soft Seat
1	Body	ASTM A216 Gr.WCB	ASTM A216 Gr.WCB
2	Plate	CA15/WCB+13%Cr. Facing	CA15/WCB+13%Cr. Facing
3	Hinge Pin	SS 410	SS 410
4	Carrier	SS 410	SS 410
5	Stop Pin	SS 410	SS 410
6	Screw	SS 410	SS 410
7	Spring	Inconel X750	Inconel X750
8	Bearing	SS 410	SS 410
9	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 1/2", 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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Valves Division**

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