www.snyvalve.com.cn

SNY VALVE (YANCHENG) CO., LTD.

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API594

DUAL PLATE CHECK VALVE

SNY VALVE
LEADING TECHNOLOGY SOLUTION FOR ENGINEERING VALVE

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SNY VALVE (YANCHENG) CO., LTD.
Rev. No.: E1–DPC–2020

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COMPANY PROFILE

SNY Valve (Yancheng) Co., Ltd. is committed to providing global customers with reliable and complete range of solution for engineering valve. Established in 2003 with CNY 150 million registered capital, SNY VALVE is a national high-tech comprehensive enterprise which integrating valve R&D manufacturing and sales. SNY VALVE headquarters is located in Yancheng city with two manufacturing workshops. We have sales centers in Yancheng, Suzhou and Beijing. SNY VALVE covers an area of over 100,000 sq. meters with more than 300 sets of production, test & inspection facilities. SNYVALVE has established long-term cooperative relations with many large enterprises at home and abroad, been approved by many end users and EPC companies, and products export to middle east, Europe, America, etc.

Main Products

SNY VALVE products are widely applied in oil, gas, petroleum refining, petrochemical, power, mining, metallurgy, LNG shipbuilding and other industries. Our product range are NPS 1/4~60 inch (DN6~DN1500), Class150~2500 (PN16~PN420). Our mainly products are gate valves, globe valves, check valves, ball valves, API6D valve, and we are actively developing special valves used for severe service such as cryogenic, ultra-high temperature and high corrosion. Products are designed according to standards of ANSI, ASTM, API, BS, JIS, DIN, GB, ISO, MSS, etc., and design temperature from -196 to 650 Deg.C. Material are available of carbon steel, stainless (including duplex and super duplex), and other alloys steel (low alloy, nickel-based alloy, Inconel, Monel, Hastelloy),etc.

Technical Strength

SNY VALVE has a first-class technology research and development team, and we have nearly 100 of all kinds of patents and copyrights. Company are capable of physical & chemical analysis, mechanical performance testing, NDT, impact test at ambient temperature and low temperature, hardness testing, metallographic analysis, coordinate measuring, valve torque testing, valve life testing, high-temperature & cryogenic testing, etc., products have been certified through fire safe, fugitive emission, TAT tests.

HEADQUARTERS

Established in 2003
Area: 34,000 ㎡
Located in Tinghu District, Yancheng City.

THE SECOND FACTORY

Established in 2006
Area: 58,000 ㎡
Located in Yancheng E&T development zone, Yancheng City.

SUZHOU BRANCH

Located in Suzhou Industrial Zone, Suzhou branch is the global sales & marketing center of SNY VALVE, which plays a comprehensive role in market promotion, sales, and set up distribution system.

BEIJING BRANCH

Located in Beijing International Business Center, Beijing branch is the domestic sales & marketing center of SNY VALVE, and plays a comprehensive role in market promotion, sales, and set up distribution system.

Environment, Health & Safety

Quality, health, safety and environment management have top priority in our growth plans and all our endeavors. SNY VALVE is committed to providing a safe, healthy and positive working environment for our employees and those under our care. SNY VALVE has established management policy and action guidelines regarding environmental issues. We view "harmony with nature" and "sustainable development" as integral to the pursuit of our business.

Social Responsibility

Constantly taking social responsibility, SNY VALVE has set up “SNY Scholarship” through cooperating with local university for aiding excellent students in straitened circumstance.

QUALIFICATION & CERTIFICATE

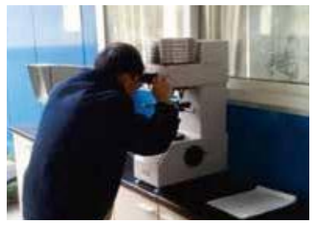
SNY VALVE is committed to provide the highest possible quality industrial valves at the most cost effective way to customers worldwide. We have been certified with ISO9001, ISO14001, OHSAS18001, CE/PED, API6D, API602, API600,ABS, CU-TR,TS,and obtained API607 /API 6Fa fire safe approvals.

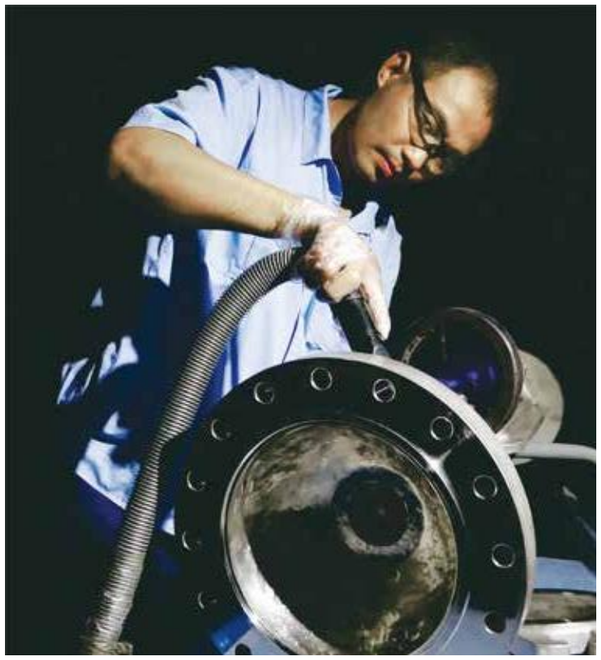
QUALITY CONTROL

SNY VALVE has been certified with ISO 9001 & API Spec. Q1 for quality management system.
SNY quality assurance and quality control capabilities are followed and implemented based on global standards.
We have
· State-of-the-art Quality Control Test Center
· In-house Non-destructive Test Equipment & ASNT Certified Personnel
· Pressure Test Equipment
· Special Testing Equipment for Product Validation

Raw material quality is ensured by a stringent vendor qualification system. By NDT (Radiographic Test, Magnetic Particle Test, Penetrant Test & Ultrasonic Test), Positive Martial Identification (PMI), Tensile Test, and Hardness Test to evaluate samples & small lot production, as well as surveillance audits and sample check to ensure the compliance as per customers' requirements.

Valves manufactured at SNY valves are 100% pressure-tested. The product design has been validated through various special testing as per applicable industry standards such as Fire Safe Test, Low Temperature Test, Cryogenic Test, Vacuum Test, Fugitive Emission Test, High Pressure Gas Test, Elevated Temperature Test and so on.



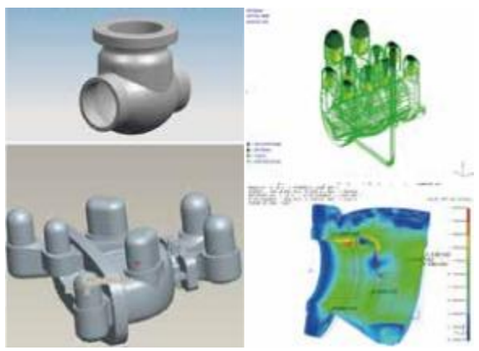


SNY VALVE always focus on technical innovation. It has one province technique center and one cryogenic ball valve engineering center. Technical team utilizes the most advanced computer technology to improve the existing products and develop the new products. Up to now, SNY VALVE possesses more than 90 patents.

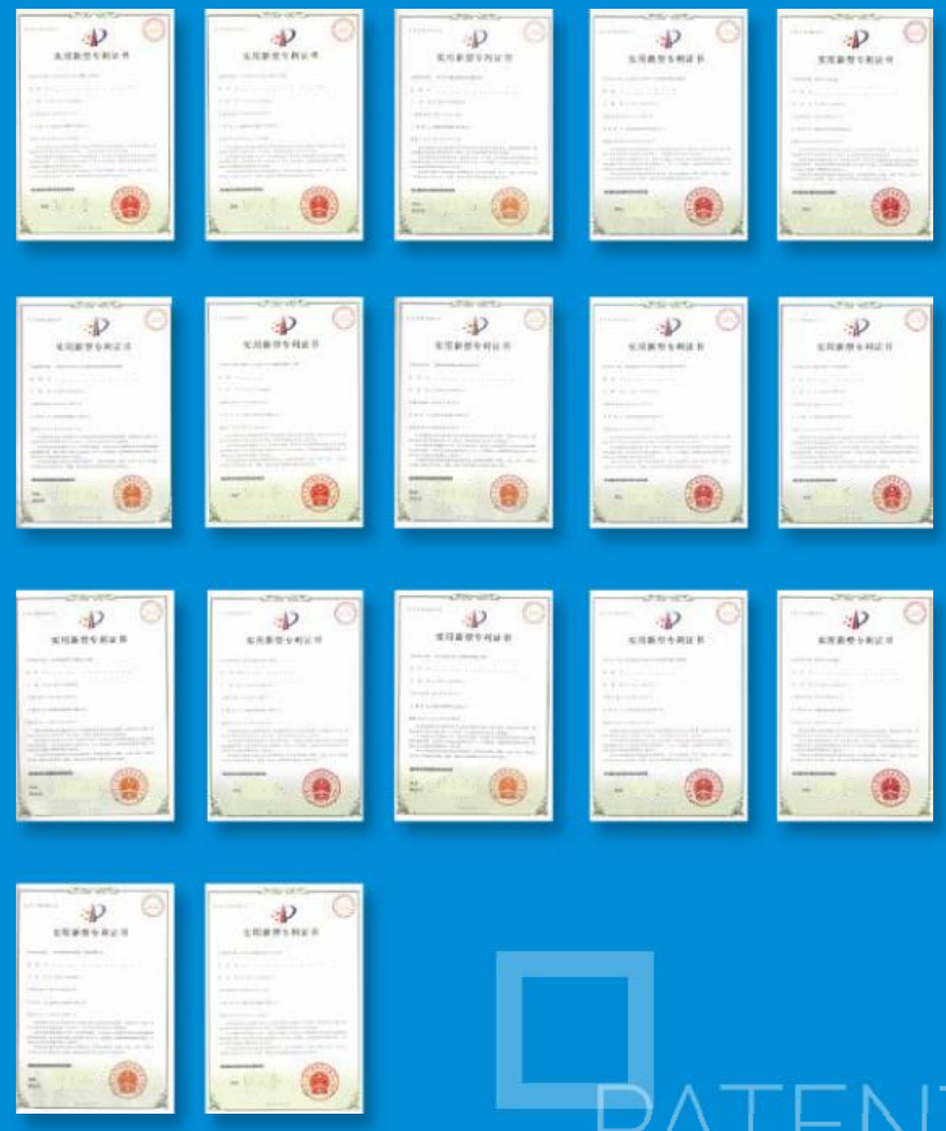
SNY VALVE design philosophy is to develop a safe and cost-efficient valve. Through the latest software of 3D, CAD & Solid works, engineer is available to fictitiously check and verify if the parts & valves can be assembled precisely before they are actually made, which can speed up the development process & saves the costs.

SNY VALVE technical personnel are always ready to offer on-line or on-site technical training and support for all of our customers.

TECHNICAL INNOVATION



TECHNOLOGY PATENT



PATENT

INTRODUCTION OF FOUNDRIES

SNY VALVE realizes the casting quality is the most important to valve life, safety of personnel and environment, especially in the high temperature and high pressure applications. So our strict customers always audit the foundries at first from our approved suppliers before order execution.

SNY VALVE has established unique strategic supply chain management system. We have strategically foundries and one own foundry. They each have a full set of quality inspection facilities, such as spectrometer, NDT and PMI inspection, etc.

FACTORY MANAGEMENT & FACILITIES

SNY VALVE organically integrates the advanced manufacturing equipment and the staffs. By using the most advanced hardware and software, centralizing the production resources, increasing our efficiency and continuously improving the process control, we are able to meet or exceed the different requirement of customers. Company implement 6S management onsite to reduce waste and improve process control. Advanced management software such as K/3 (ERP) & OA (Collaborative Management Software) play an important role in SNY VALVE. Synchronized supervision & management are performed through the whole manufacturing process to improve productivity & efficiency. Our business philosophy is: stable & reliable quality, on-time delivery and reasonable price.

SNY VALVE have more than 300 sets(units) equipment, such as CNC machining Center, CNC lathes, CNC boring-milling machine, general lathes, large-scale vertical lathe, sphere grinders, plasma overlaying welding equipment and heat treatment equipment, etc.
CNC machining Center is Japanese FANUC 0I-MD NC, and the three-way coupling is from Germany S+J/R+W, which realizes the automatic continuous milling of plane, groove, bevel, and a variety of linear processing, and ensure the accuracy of ball.

INDUSTRY APPLICATIONS

- Oil & Gas Pipeline
- Refinery
- Petrochemical
- Power
- Chemical
- LNG & LPG
- Mining
- Metallurgy
- Aerospace
- Water Treatment
- Offshore Engineering

Figure Numbers

	Nominal Size	Valve Type	Nominal Pressure	End Connection	Body Material	Trim	Special Material
	A	B	C	D	E	H	I
Example:	4 0	C H D	1	W	W C B	T 8	N C

Explanation: NPS10, Dual Plate Check Valve, Class150, Wafer End, WCB Body Material, 8# Trim, NACE Requirement.

A Nominal Size

2	NPS2	30	NPS30	D50	DN50	D750	DN750
3	NPS3	32	NPS32	D80	DN80	D800	DN800
4	NPS4	34	NPS34	D100	DN100	D850	DN850
6	NPS6	36	NPS36	D150	DN150	D900	DN900
8	NPS8	38	NPS38	D200	DN200	D950	DN950
10	NPS10	40	NPS40	D250	DN250	D1000	DN1000
12	NPS12	42	NPS42	D300	DN300	D1050	DN1050
14	NPS14	44	NPS44	D350	DN350	D1100	DN1100
16	NPS16	46	NPS46	D400	DN400	D1150	DN1150
18	NPS18	48	NPS48	D450	DN450	D1200	DN1200
20	NPS20	50	NPS50	D500	DN500	D1250	DN1250
22	NPS22	52	NPS52	D550	DN550	D1300	DN1300
24	NPS24	54	NPS54	D600	DN600	D1350	DN1350
26	NPS26	56	NPS56	D650	DN650	D1400	DN1400
28	NPS28	58	NPS58	D700	DN700	D1450	DN1450
		60	NPS60			D1500	DN1500

B Valve Type

CHD	Dule Plate Check Valve

F Trim

In accordance with API 600. Other materials are available upon request.

G Special Material

B7M/2HM	bolt&nut material is B7M/2HM
BZ	galvanized bolt
BN	nickelplated bolt&nut
BP	PTFE plated bolt
NC	NACE Requirement

C Nominal Pressure

0	Class125	–2.5	PN(DIN)2.5	–20	PN(ANSI)2
1	Class150	–6	PN(DIN)6	–50	PN(ANSI)5
3	Class300	–10	PN(DIN)10	–110	PN(ANSI)1
4	Class400	–16	PN(DIN)16	–150	PN(ANSI)1
6	Class600	–25	PN(DIN)25	–260	PN(ANSI)2
8	Class800	–40	PN(DIN)40	–420	PN(ANSI)4
9	Class900	–63	PN(DIN)63		
15	Class1500	–100	PN(DIN)100		
25	Class2500				

D End Connection

D	Double Flange	L	Lug	W	Wafer

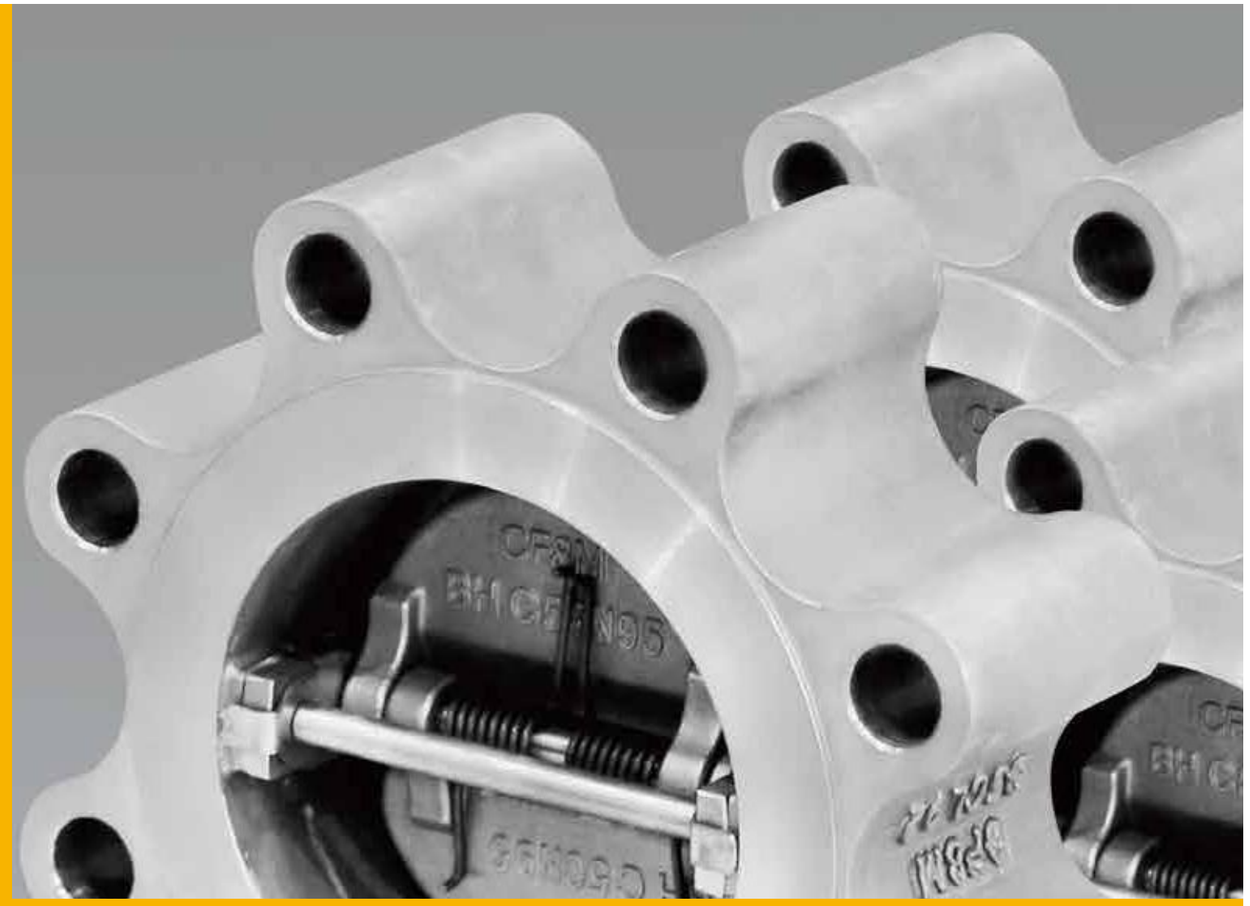
E Body Material

WCA	A216 WCA
WCB	A216 WCB
WCC	A216 WCC
LCB	A352 LCB
LCC	A352 LCC
CF8	A351 CF8
CF8M	A351 CF8M
CF3	A351 CF3
CF3M	A351 CF3M

DESIGN FEATURES

Dual plate check valve is widely used in a variety of pipelines temperature -196 ~ 540 ℃ to prevent the medium backflow. Our valve nominal pressure is PN1.0MPa ~ 42.0MPa, Class150 ~ 2500 and NPS1 / 2 ~ 48. SNY dual plate check valves can be applied for the medium such as water, steam, oil, nitric acid, acetic acid, strong oxidizing agent, urea and so on.

1. Face-to-face and end-to-end dimension is short, only 1/4 to 1/8 of conventional check valve.
2. Compact and light weight, only 1/4 to 1/20 of check valve.
3. Disc can be closed rapidly with small water hammer pressure.
4. Easy to be installed on horizontal and vertical pipes.
5. Obstacle free passage and small fluid resistance.
6. Excellent sealing performance.
7. Short disc stroke and small impact when closing.
8. Simple and compact structure with attractive appearance.
9. Long-term and reliable service life.



LEADING TECHNOLOGY SOLUTION
FOR ENGINEERING VALVE

PART 1

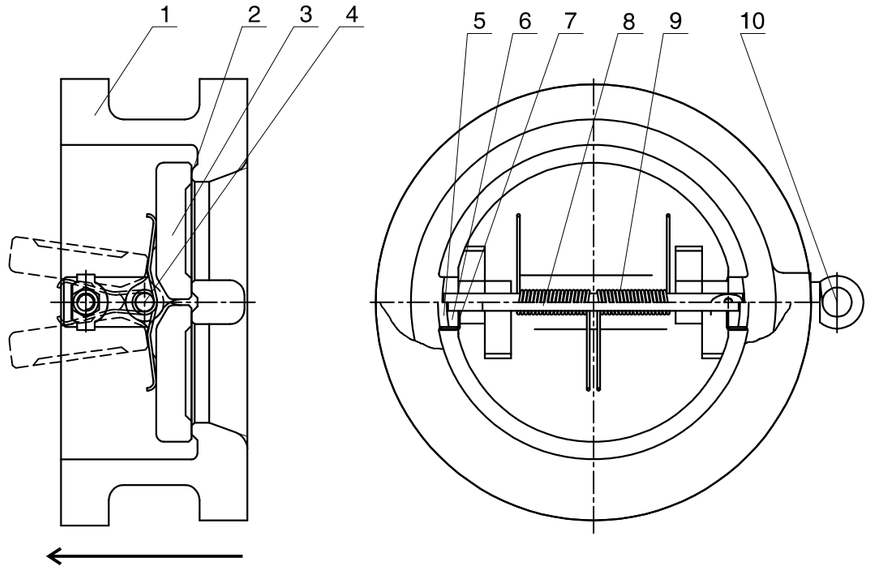
SNY VALVE

Design Standard	
Basic Design	API 594
Face to Face Dimension	ASME B16.10 API 594
End Flange Dimension	ASME B16.5
Pressure-temperature Rating	ASME B16.34
Inspection and Test	API 598

Wafer Type Dual Plate Check Valve

1.Body slot design to fit the hinge pin
2.Two independent torsion springs ensure quick valve closing
3.Uninterrupted gasket surface for effective sealing
4.Light weight, compact design
5.Two independent seats to ensure consistent sealing even in uneven flow.

General Assembly Drawing

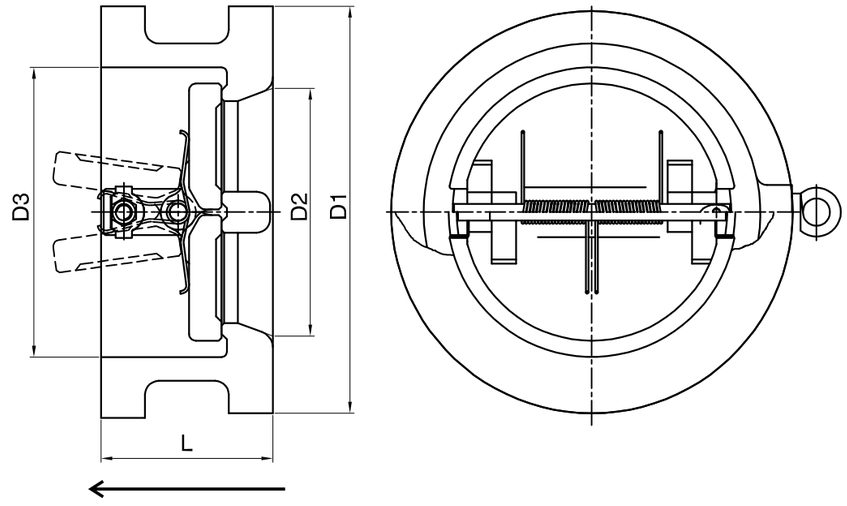


Material of Construction

Part No.	Part Name	Material	
		Carbon Steel	Stainless Steel
1	Body	ASTM A216 WCB	ASTM A351 CF8M
2	Seat	Integral + HF*	Integral + HF*
3	Plate	ASTM A351 CF8M	ASTM A351 CF8M
4	Hinge Pin	ASTM A276 316	ASTM A276 316
5	Stop Pin Retainer	ASTM A216 WCB	ASTM A276 316
6	Key	ASTM A276 316	ASTM A276 316
7	Washer	ASTM A276 316	ASTM A276 316
8	Stop Pin	ASTM A276 316	ASTM A276 316
9	Spring	INCONEL X-750	INCONEL X-750
10	Eye Bolt	Carbon Steel	Carbon Steel(galvanized)

Wafer Type Dual Plate Check Valve

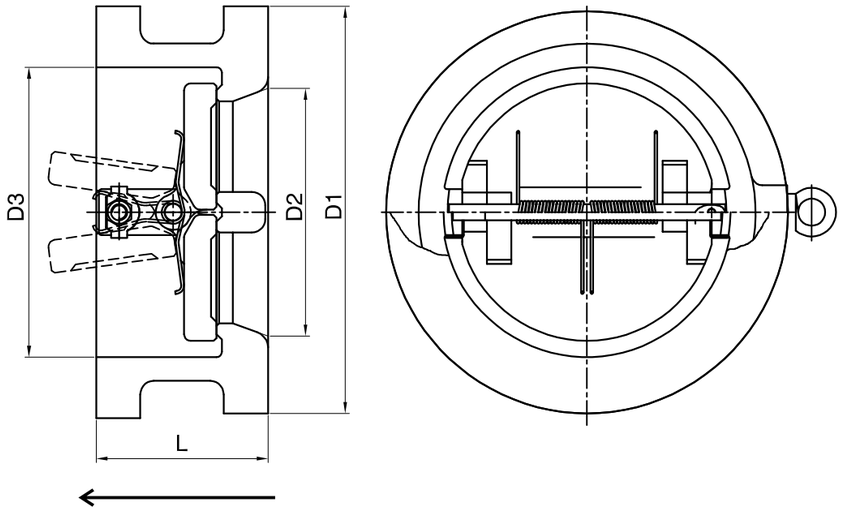
Dimension & Weight



CLASS 150

Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.38	103	4.06	48	1.89	68	2.68	2	5
80	3	73	2.88	135	5.31	67	2.64	88	3.46	4	9
100	4	73	2.88	173	6.81	92	3.62	116	4.57	7	15
150	6	98	3.88	221	8.70	140	5.51	168	6.61	13	30
200	8	127	5.00	278	10.94	183	7.20	214	8.43	26	56
250	10	146	5.75	338	13.31	224	8.82	264	10.39	42	92
300	12	181	7.12	408	16.06	270	10.63	308	12.13	71	157
350	14	184	7.25	448	17.64	304	11.97	344	13.54	85	187
400	16	191	7.52	514	20.24	358	14.09	402	15.83	122	270
450	18	203	7.99	548	21.57	405	15.94	452	17.80	160	353
500	20	219	8.62	606	23.86	456	17.95	502	19.73	189	417
600	24	222	8.75	716	28.19	558	21.97	608	23.94	259	571

Dimension & Weight

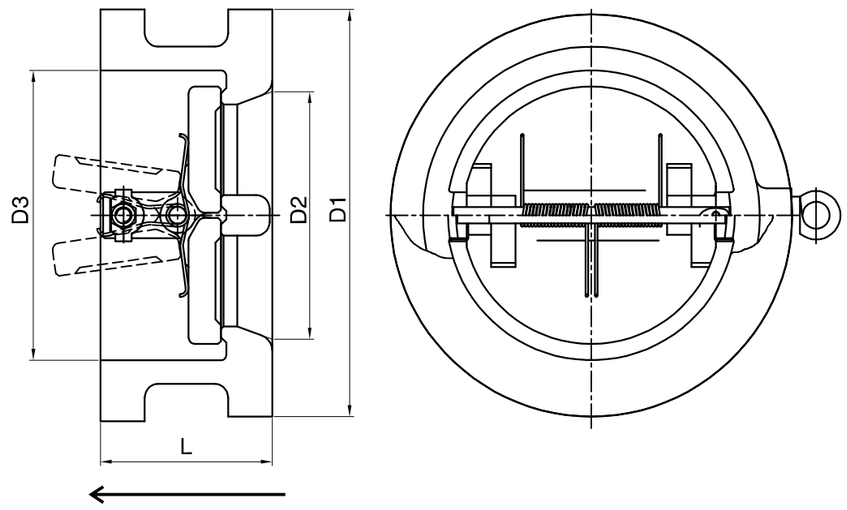


CLASS 300

Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.88	110	4.33	48	1.89	68	2.68	3	6
80	3	73	2.88	148	5.83	67	2.64	88	3.46	5	12
100	4	73	2.88	180	7.06	92	3.62	116	4.6	8	18
150	6	98	3.88	249	9.80	140	5.51	168	6.61	18	41
200	8	127	5.00	306	12.05	183	7.20	214	8.43	33	72
250	10	146	5.75	362	14.17	222	8.74	264	10.39	51	113
300	12	181	7.12	420	16.54	270	10.63	308	12.13	82	181
350	14	222	8.75	484	19.06	304	11.97	344	13.54	133	293
400	16	232	9.12	538	21.18	356	14.02	402	15.83	185	408
450	18	264	10.38	595	23.43	405	15.94	452	17.80	225	496
500	20	292	11.50	652	25.67	456	17.95	502	19.76	305	672
600	24	318	12.50	773	30.43	558	21.97	608	23.94	430	948

Wafer Type Dual Plate Check Valve

Dimension & Weight



CLASS 600

Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.38	110	4.33	48	1.89	68	2.68	4	9
80	3	73	2.88	148	5.83	67	2.46	88	3.46	9	19
100	4	79	3.12	192	7.56	92	3.62	116	4.57	12	25
150	6	136	5.38	264	10.39	140	5.51	168	6.61	28	61
200	8	165	6.50	319	12.56	180	7.09	214	8.43	51	112
250	10	213	8.38	398	15.67	220	8.66	264	10.39	96	212
300	12	229	9.02	456	17.95	266	10.47	311	12.24	143	315
350	14	273	10.75	491	19.33	310	12.20	346	13.62	228	503
400	16	305	12.01	564	22.20	366	14.41	402	15.83	365	806
450	18	362	14.25	611	24.06	415	16.34	454	17.87	402	885
500	20	368	14.49	681	26.81	460	18.11	506	19.92	526	1160
600	24	438	17.25	789	31.06	556	21.89	602	23.70	857	1889

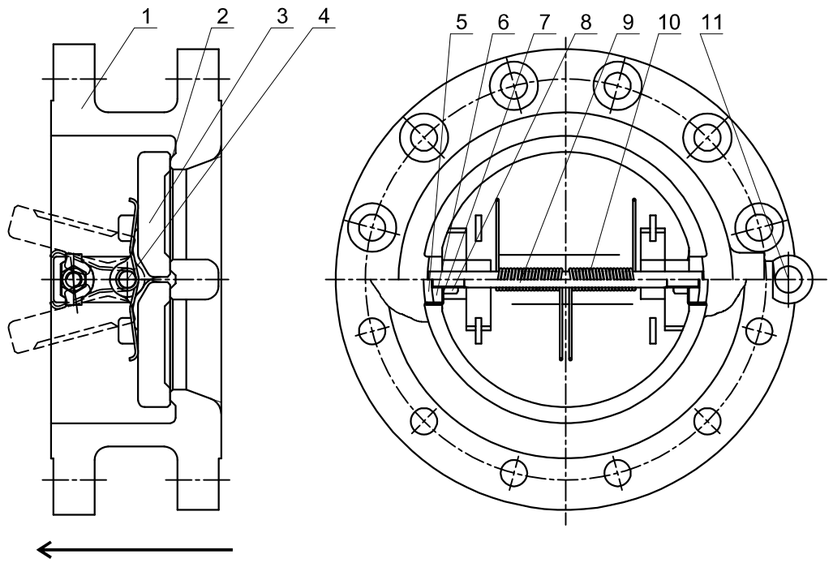
PART 2

Design Standard	
Basic Design	API 594
Face to Face Dimension	ASME B16.10
End Flange Dimension	ASME B16.5
Pressure-temperature Rating	ASME B16.34
Inspection and Test	API 598

Flange Type Dual Plate Check Valve

1. Body slot design to fit the hinge pin
2. Two independent torsion springs ensure quick valve closing
3. Uninterrupted gasket surface for effective sealing
4. Light weight, compact design
5. Two independent seats to ensure consistent sealing even in uneven flow.

General Assembly Drawing



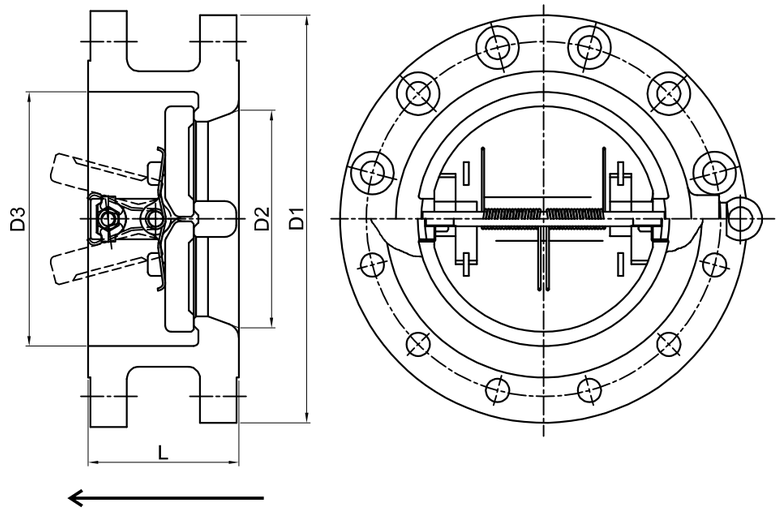
Material of Construction

Part No.	Part Name	Material	
		Carbon Steel	Stainless Steel
1	Body	ASTM A216 WCB	ASTM A351 CF8M
2	Seat	Integral + HF*	Integral + HF*
3	Plate	ASTM A351 CF8M	ASTM A351 CF8M
4	Hinge Pin	ASTM A276 316	ASTM A276 316
5	Stop Pin Retainer	ASTM A216 WCB	ASTM A276 316
6	Key	ASTM A276 316	ASTM A276 316
7	Washer	ASTM A276 316	ASTM A276 316
8	Nut	ASTM A276 316	ASTM A276 316
9	Stop Pin	ASTM A276 316	ASTM A276 316
10	Spring	INCONEL X-750	INCONEL X-750
11	Eye Bolt	Carbon Steel	Carbon Steel(galvanized)

* HF: Hardfaced with 316 or equivalent.

Flange Type Dual Plate Check Valve

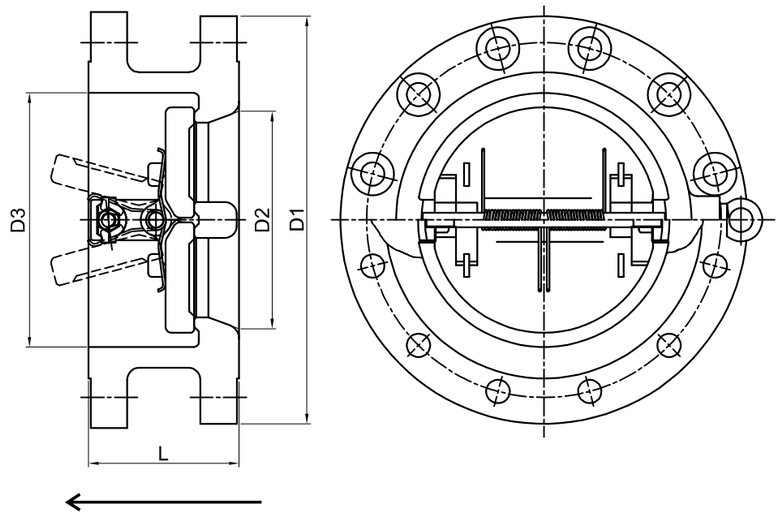
Dimension & Weight



CLASS 150

Size		L		D1		D2		D3		ApproxWeight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.38	150	5. 91	48	1.89	68	2.68	8	17
80	3	73	2.88	190	7. 48	67	2.64	88	3.46	12	27
100	4	73	2.88	230	9. 06	92	3.62	116	4.57	16	36
150	6	98	3.88	280	11.02	140	5.51	168	6.61	25	55
200	8	127	5.00	345	13.50	183	7.20	214	8.43	42	94
250	10	146	5.75	405	16.02	224	8.82	264	10.39	62	137
300	12	181	7.12	485	19.09	270	10.63	308	12.13	100	220
350	14	184	7.25	535	21.06	304	11.97	344	13.54	123	272
400	16	191	7.52	595	23.50	358	14.09	402	15.83	164	362
450	18	203	7.99	635	25.00	405	15.94	452	17.80	211	466
500	20	219	8.62	700	27.56	456	17.95	502	19.76	255	561
600	24	222	8.75	815	32.09	558	21.97	608	23.94	348	767

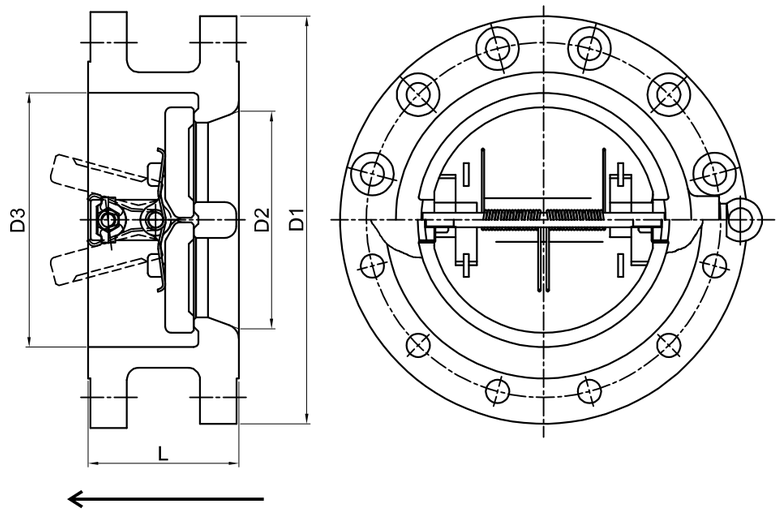
Dimension & Weightt



CLASS 300

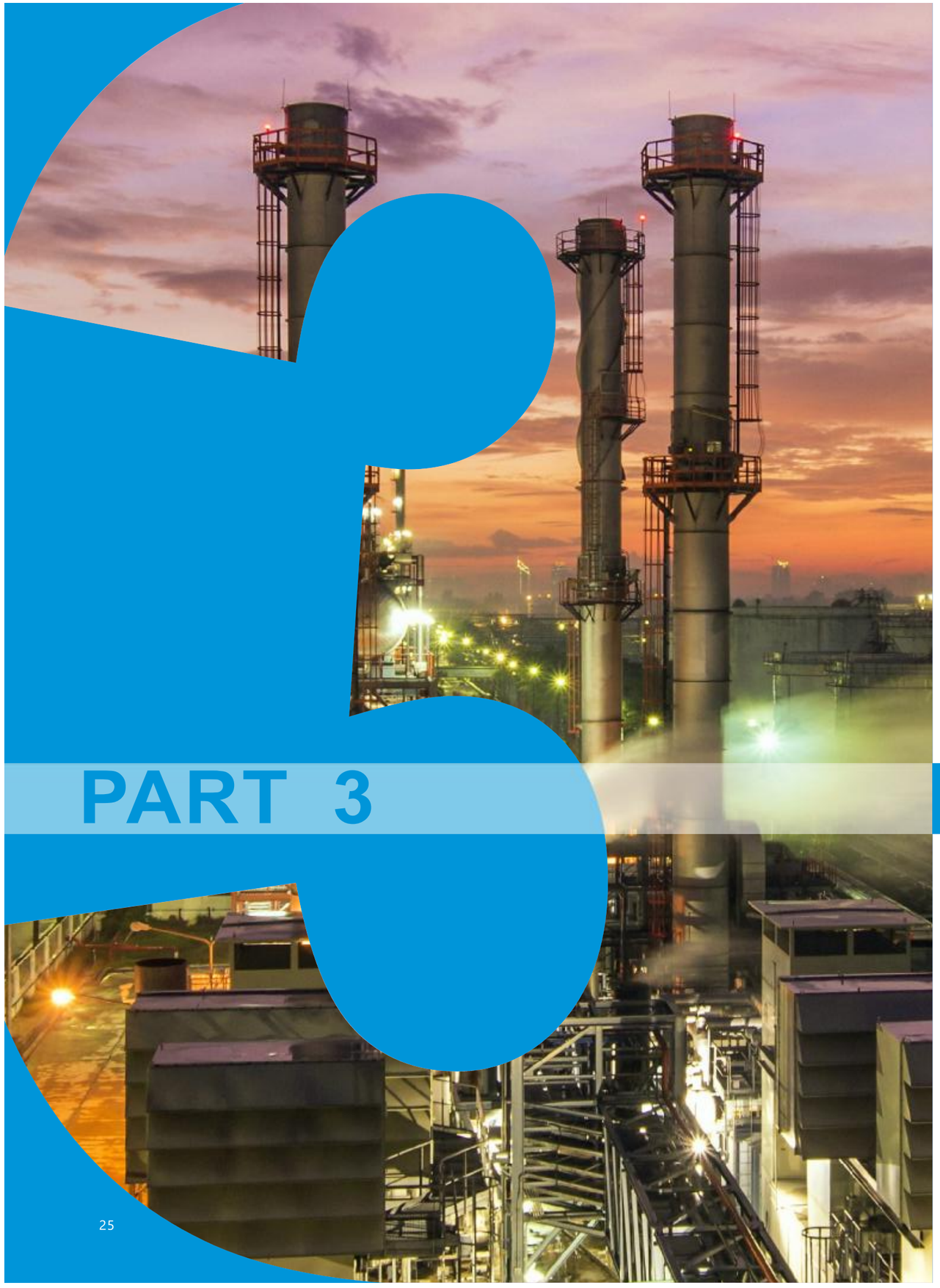
Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.38	165	6. 50	48	1.89	68	2.68	9	21
80	3	73	2.88	210	8. 25	67	2.64	88	3.46	16	35
100	4	73	2.88	255	10. 04	92	3.62	116	4.57	23	51
150	6	98	3.88	320	12. 50	140	5.51	168	6.61	39	86
200	8	127	5.00	380	14.96	183	7.20	214	8.43	61	133
250	10	146	5.75	445	17.52	222	8.74	264	10.39	93	205
300	12	181	7.12	520	20.47	270	10.63	308	12.13	142	313
350	14	222	8.75	585	23.03	304	11.97	344	13.54	206	454
400	16	232	9.12	650	25.50	356	14.02	402	15.83	279	615
450	18	264	10.38	710	27.95	405	15.94	452	17.80	337	742
500	20	292	11.50	775	30.51	456	17.95	502	19.76	442	975
600	24	318	12.52	915	36.02	558	21.97	608	23.94	635	1399

Dimension & Weight



CLASS 600

Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.38	165	6. 50	48	1.89	68	2.68	12	26
80	3	73	2.88	210	8. 25	67	2.64	88	3.46	20	45
100	4	79	3.12	275	10. 75	92	3.62	116	4.57	33	72
150	6	136	5.38	355	13. 98	140	5.51	168	6.61	64	141
200	8	165	6.50	420	16.54	180	7.09	214	8.43	105	232
250	10	213	8.38	510	20.08	220	8.66	264	10.39	179	394
300	12	229	9.02	560	22.05	266	10.47	311	12.24	233	513
350	14	273	10.75	605	23.75	310	12.20	346	13.62	339	747
400	16	305	12.01	685	26.97	366	14.41	402	15.83	510	1125
450	18	362	14.25	745	29.25	415	16.34	464	17.83	589	1300
500	20	368	14.49	815	32.09	460	18.11	506	19.92	749	1650
600	24	438	17.25	940	37.01	556	21.89	602	23.70	1187	2617



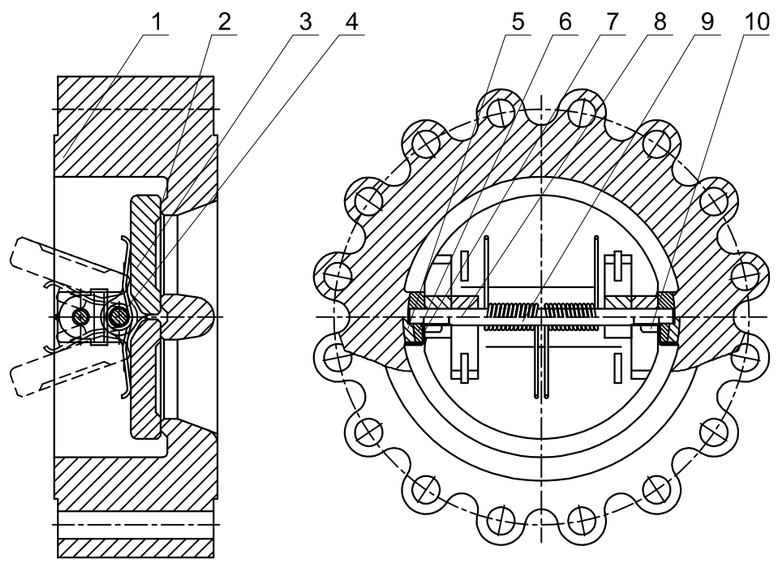
PART 3

Design Standard	
Basic Design	API 594
Face to Face Dimension	ASME B16.10 API 594
End Flange Dimension	ASME B16.5
Pressure-temperature Rating	ASME B16.34
Inspection and Test	API 598

Lug Type Dual Plate Check Valve

1. Maximum resistance with minimum opening time
2. Smooth, spring assisted closing reduces water hammer
3. Light weight, compact design
4. Straight through bores

General Assembly Drawing

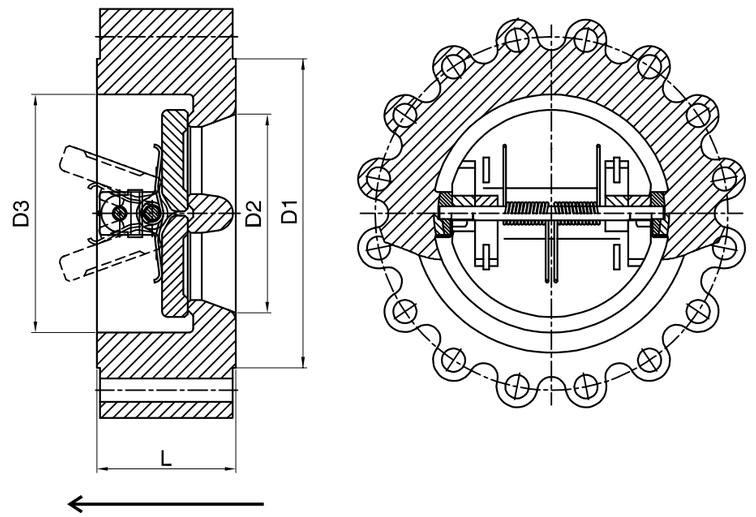


Material of Construction

Part No.	Part Name	Material	
		Carbon Steel	Stainless Steel
1	Body	ASTM A216 WCB	ASTM A351 CF8M
2	Seat	Integral + HF*	Integral + HF*
3	Plate	ASTM A351 CF8M	ASTM A351 CF8M
4	Hinge Pin	ASTM A276 316	ASTM A276 316
5	Stop Pin Retainer	ASTM A216 WCB	ASTM A276 316
6	Key	ASTM A276 316	ASTM A276 316
7	Washer	ASTM A276 316	ASTM A276 316
8	Stop Pin	ASTM A276 316	ASTM A276 316
9	Spring	INCONEL X-750	INCONEL X-750
10	Eye Bolt	Carbon Steel	Carbon Steel(galvanized)

Lug Type Dual Plate Check Valve

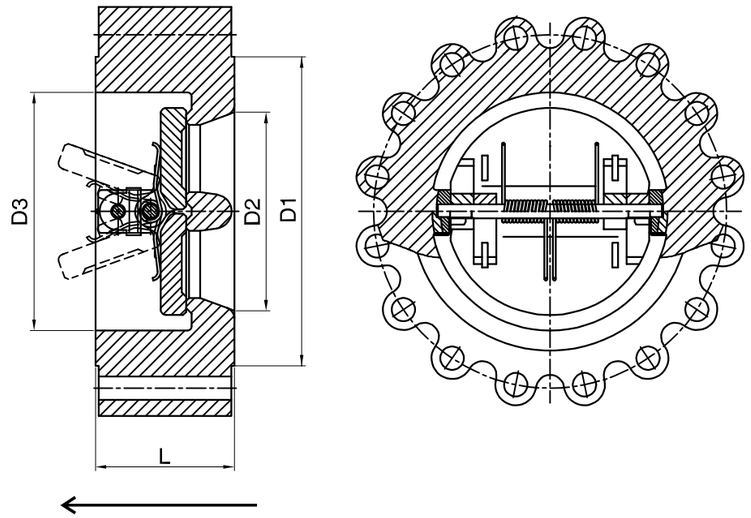
Dimension & Weight



CLASS 150

Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.36	92	3.62	48	1.89	68	2.68	7	16
80	3	73	2.87	127	5.00	67	2.64	88	3.46	11	25
100	4	73	2.87	157	6.18	92	3.62	116	4.57	16	35
150	6	98	3.86	216	8.50	140	5.51	168	6.61	28	62
200	8	127	5.00	270	10.63	183	7.20	214	8.43	52	114
250	10	146	5.75	324	12.76	224	8.82	264	10.39	82	180
300	12	181	7.13	381	15.00	270	10.63	308	12.13	139	307
350	14	184	7.24	413	16.26	304	11.97	344	13.54	169	372
400	16	191	7.52	470	18.50	358	14.09	402	15.83	229	505
450	18	203	7.99	533	20.98	405	15.94	452	17.80	289	637
500	20	219	8.62	584	22.99	456	17.95	502	19.76	357	787
600	24	222	8.74	692	27.24	558	21.97	608	23.94	489	1077

Dimension & Weight

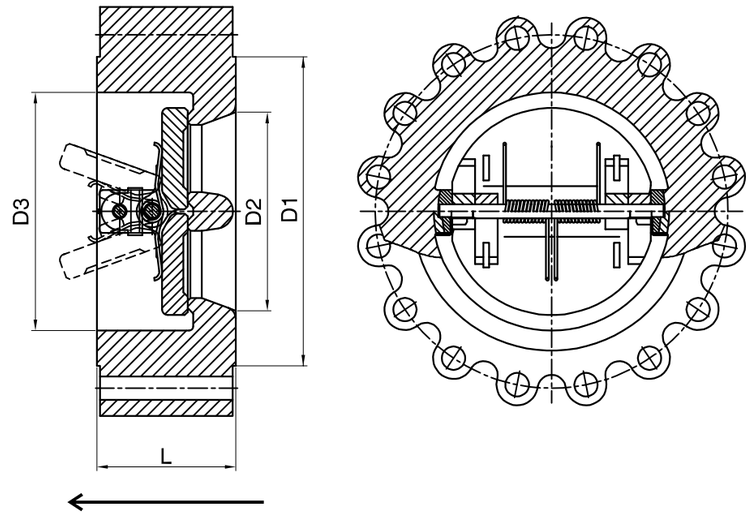


CLASS 300

Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.38	92	3.62	48	1.89	68	2.68	8	18
80	3	73	2.88	127	5.00	67	2.64	88	3.46	13	29
100	4	73	2.88	157	6.18	92	3.62	116	4.57	18	40
150	6	98	3.88	216	8.50	140	5.51	168	6.61	37	81
200	8	127	5.00	270	10.63	183	7.20	214	8.43	64	141
250	10	146	5.75	324	12.76	222	8.74	264	10.39	98	217
300	12	181	7.12	381	15.00	270	10.63	308	12.13	160	353
350	14	222	8.75	413	16.26	304	11.97	344	13.54	253	557
400	16	232	9.12	470	18.50	356	14.02	402	15.83	339	747
450	18	264	10.38	533	20.98	405	15.94	452	17.80	433	954
500	20	292	11.50	584	22.99	456	17.95	502	19.76	578	1273
600	24	318	12.52	692	27.24	558	21.97	608	23.94	842	1857

Lug Type Dual Plate Check Valve

Dimension & Weight



CLASS 600

Size		L		D1		D2		D3		Approx Weight	
DN	NPS	mm	in	mm	in	mm	in	mm	in	kg	lb
50	2	60	2.38	92	3.62	48	1.89	68	2.68	10	21
80	3	73	2.88	127	5.00	67	2.64	88	3.46	17	37
100	4	79	3.12	157	6.18	92	3.62	116	4.57	24	52
150	6	136	5.38	216	8.50	140	5.51	168	6.61	57	126
200	8	165	6.50	270	10.63	180	7.09	214	8.43	99	218
250	10	213	8.38	324	12.76	220	8.66	264	10.39	184	406
300	12	229	9.02	381	15.00	266	10.47	311	12.24	256	565
350	14	273	10.75	413	16.26	310	12.20	346	13.62	385	848
400	16	305	12.01	470	18.50	366	14.41	402	15.83	588	1297
450	18	362	14.25	533	20.98	415	16.34	454	17.87	713	1573
500	20	368	14.49	584	22.99	460	18.111	506	19.92	905	1995
600	24	438	17.25	692	27.24	556	21.89	602	23.70	1348	2972

Fluid Mechanical Properties, Fluid Resistance Coefficient, Flow Coefficient and Opening Pressure

Size		Fluid Resistance Coefficient When Valve is Fully Opened	Water Flow Coefficient When Valve Opening at Normal Temperature		Direction of Flow	
DN	NPS		Kv(m^3/h)	Cv	↑	→
					Approx Opening Pressure Kpa	
50	2	2.6	62	75	2	1
65	2 1/2	2.4	108	128	2	1
80	3	2.3	171	202	2	1
100	4	2.0	288	338	2	1
125	5	1.8	475	557	2	1
150	6	1.5	750	876	2	1
200	8	1.3	1432	1675	2	1
250	10	1.2	2330	2725	2	1
300	12	1.0	3673	4301	2	1
350	14	0.9	5275	6172	2	1
400	16	0.8	7305	8458	3	1
450	18	0.8	9245	10816	3	1
500	20	0.8	11415	13355	3	1
600	24	0.7	17572	20560	3	1

Note:Due to quick development of products, the data in our catalogue may be updated.SNY reserves the right to change the design, material, or specifications without notice and free of obligation to furnish or install such changes on products previously sold.

PRODUCT WARRANTY

SNY offer the product warranty within 18 months from the date of shipment or 12 months after installation,whichever occurs first.