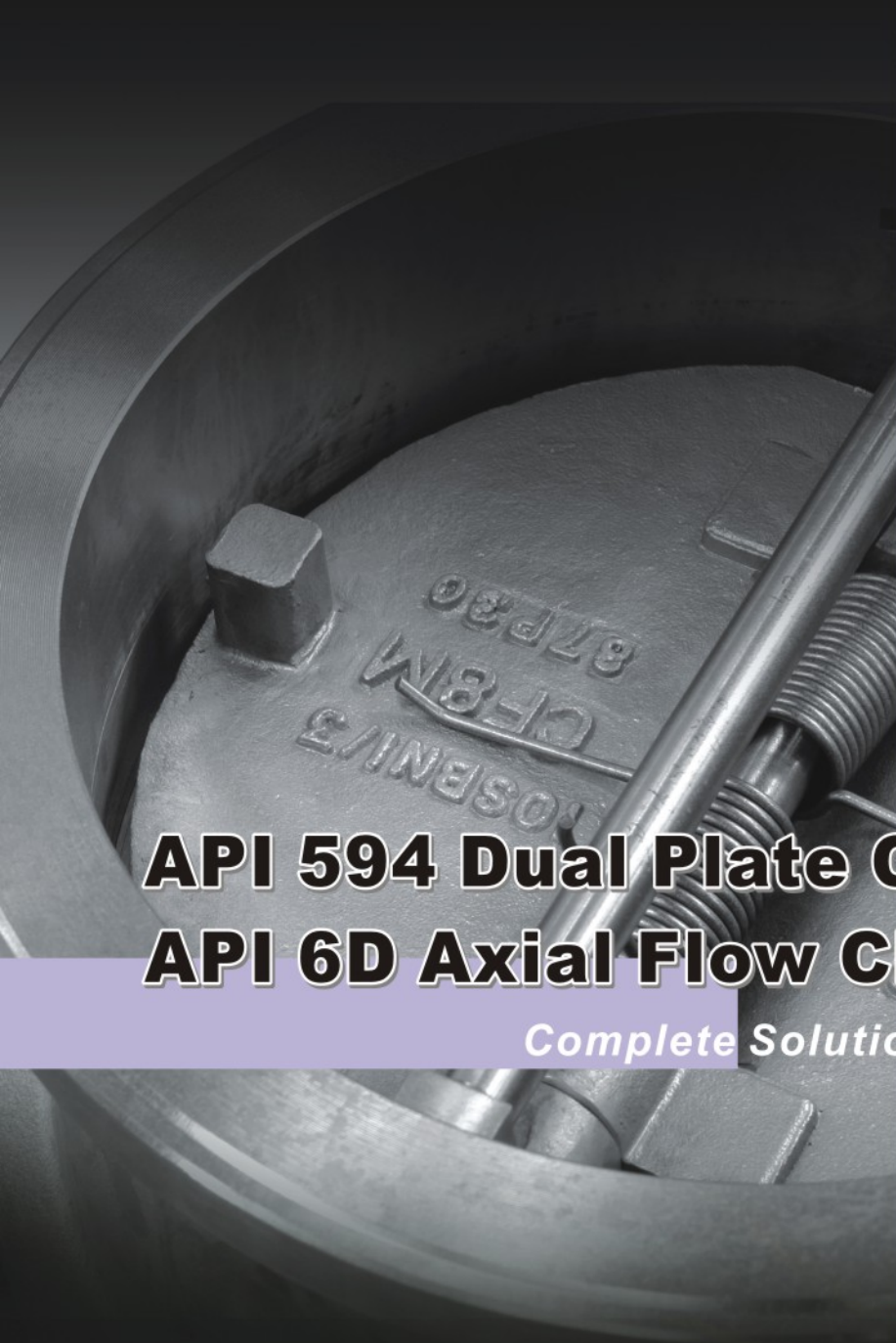




NEWAY

API 594 Dual Plate Check Valve
API 6D Axial Flow Check Valve

Complete Solutions for Industrial Valves



NEWAY VALVE

Cat.no.:E-DAV-2013

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Complete Solutions for Industrial Valves

Being one of the leading valve manufacturer in the world, Neway specializes exclusively in the development of innovative designs, through intensive R&D programs and engineering excellence. We engineer and manufacture valve solutions for all industries.

Neway's main product lines include Gate, Globe, Check, Butterfly, Ball valves, Nuclear valves and Pressure Relieving valves. Our production facilities and quality system have been inspected and approved by many global end users and EPC firms. Our products have been installed around the world, handling a wide variety of applications in the Gas, Oil, Refining, Chemical, Marine, Power Generation and Pipeline Transmission Industries.

Neway stress on internationalization and the establishment of global market. Neway had set up a basically integrated organization of global market: 3 JV ventures were set up in South America and Middle East. Sales offices were working in the United States, the Netherlands and Brazil. Representative offices were developing business in Japan and Korea. Sales agency or Exclusive agency were found in nearly 80 countries in the world.

Neway Facilities

Neway's management groups are structured based on operating several plants. Neway valves are manufactured in 5 specialized manufacturing facilities, 3 plants in China, one in Mexico and the other in Saudi Arabia. They are all supported by 4 Neway owned specialized foundries.

Our intranet includes over 400 computers using the most advanced R&D software including CAD, I-Deas, Pro-E, a number of CNC & machine centers, in addition we utilize a bar code inventory management systems. We are one of the few valve manufacturers performing Enterprise Resource Planning (ERP), in-house fire safe and cryogenic testing, high pressure gas and low fugitive emission testing.

Quality Assurance

Neway's quality assurance is dedicated to the pursuit of zero defect valve supply to our customers. We have implemented a six sigma management process in order to continually improve our processes and management controls through the use of advanced statistical data analysis. Neway holds most of the industrial valve manufacturing certificates, such as ISO 9001, CE/PED, TA-Luft, API 6A, API 6D, ABS, and API 607 Fire Safe certificate.

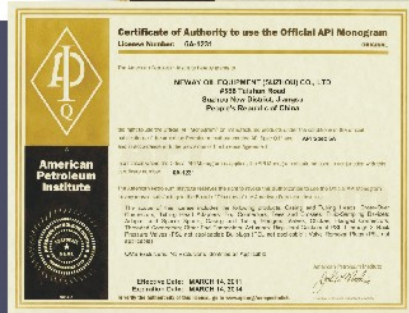
Quality Commitment

ISO 9001

API 6D



API 6A



CE/PED



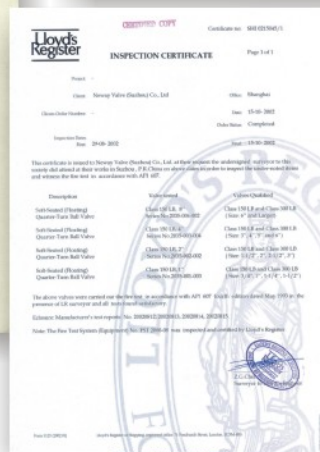
TA Luft



ABS



API 591



Fire Safe Test

Neway recognizes the importance of valve quality for the safety and protection of personnel health and property. It is our quality commitment to focus our resources to provide our customers with first class products at a competitive price, that are designed, manufactured, inspected and tested in accordance with our customers' specifications and that comply with all International standards.

With respect to the facts that the current Industrial standards do not always take into consideration the likelihood and consequences of possible deterioration in service, related to specific service fluids or the external environment in which they operate. Our customers are requested to keep an open line of communication with our engineering department to identify and implement standards, that will provide valves with the possibility of deterioration in service, so as to ensure safety over the valves expected lifetime.

How to Order

Figure Number Example:

8	SBN	3	W	,	WCB	/	NO.8
①	②	③	④		⑤		⑥

Neway valve figure number are designed to cover essential feature. When ordering, please show the figure number and a detailed description to avoid misunderstanding of your requirement.

Following descriptions provide a basic guideline in valve specification:

① Valve Size

② Valve Type

Valve Type	Dual-plate Check Valve	Axial Flow Type Check Valve
Symbol	SBN	SA

③ ANSI Class

Code	1	3	4	6	9	15	25
Class (LB)	150	300	400	600	900	1500	2500

④ End Connection

End	Wafer	LUG	Double-flange/Raised Face Flanged End	RTJ Flange End	Butt-Welding End
Symbol	W	L	R	J	B

⑤ Shell Material

Material	WCB	LCB	LCC	WC6	WC9	C5	CF8	CF8M	CF3	CF3M	CD3MN
ASTM Ref	A216 Gr. WCB	A352 Gr. LCB	A352 Gr. LCC	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C5	A351 Gr. CF8	A351 Gr. CF8M	A351 Gr. CF3	A351 Gr. CF3M	A890 Gr. CD3MN

⑥ Trim Material

API600 Trim Number	Symbol	Disc Surface	Seat Surface	Hinge Material
1	1	13%Cr	13%Cr	ASTM A276-410
2	2	18%Cr,8%Ni	18%Cr,8%Ni	ASTM A276-304
5	5	Stellite	Stellite	ASTM A276-410
8	8	13%Cr	Stellite	ASTM A276-410
9	9	Monel	Monel	Ni Cu Alloy Monel
10	10	18%Cr,8%Ni	18%Cr,8%Ni	ASTM A276-316
12	12	18%Cr,8%Ni	Stellite	ASTM A276-316
13	13	Alloy 20 19%Cr,29%Ni	Alloy 20 19%Cr,29%Ni	ASTM B473
16	16	Stellite	Stellite	ASTM A276-316
	20	Bronze	Bronze	Bronze

Note 1.Trim number 1 to 13 are same as API 600 .
2.Trim number 1 may be replaced by trim number 8 without notice.

Dual Plate Check Valve

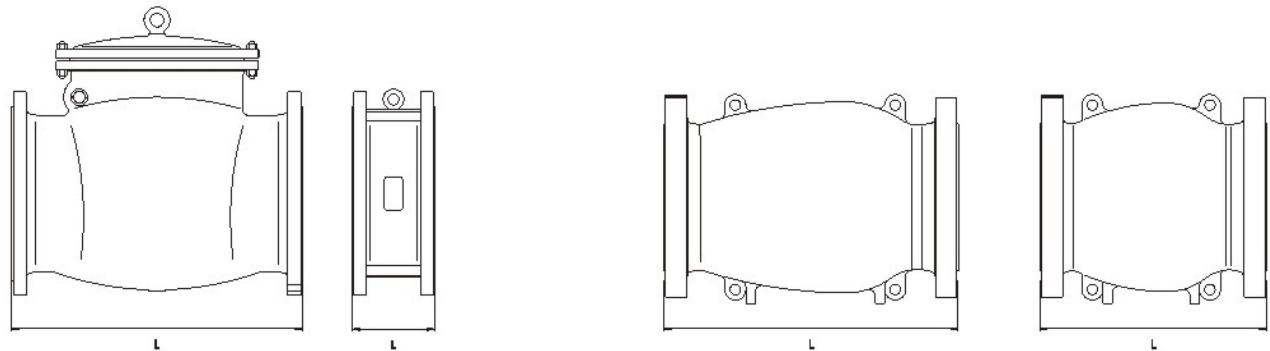
Class	150lb			300lb			600lb			900lb			1500lb			2500lb		
Type	Wafer	Lug	Flanged	Wafer	Lug	Flanged	Wafer	Lug	Flanged	Wafer	Lug	Flanged	Wafer	Lug	Flanged	Wafer	Lug	Flanged
2"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
2-1/2"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
3"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
4"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
5"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
6"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
8"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
10"	◆	◆		◆	◆		◆	◆		◆	◆		◆	◆		◆	◆	
12"	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
14"	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
16"	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
18"	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
20"	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
24"	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
30"	◆	◆	◆	◆	◆	◆	◆	◆	◆									
36"	◆	◆	◆	◆	◆	◆	◆	◆	◆									
42"	◆	◆	◆	◆	◆	◆	◆	◆	◆									
48"	◆	◆	◆	◆	◆	◆												
54"	◆	◆	◆															
60"	◆	◆	◆															

Axial Flow Check Valve

Class	150lb	300lb	400lb	600lb	900lb	1500lb	2500lb
2"	◆	◆	◆	◆	◆	◆	◆
3"	◆	◆	◆	◆	◆	◆	◆
4"	◆	◆	◆	◆	◆	◆	◆
6"	◆	◆	◆	◆	◆	◆	◆
8"	◆	◆	◆	◆	◆	◆	◆
10"	◆	◆	◆	◆	◆	◆	◆
12"	◆	◆	◆	◆	◆	◆	◆
14"	◆	◆	◆	◆	◆	◆	
16"	◆	◆	◆	◆	◆	◆	
18"	◆	◆	◆	◆	◆	◆	
20"	◆	◆	◆	◆	◆	◆	
22"	◆	◆	◆	◆			
24"	◆	◆	◆	◆	◆	◆	
28"	◆	◆	◆	◆			
30"	◆	◆	◆	◆	◆		
34"	◆	◆	◆	◆			
36"	◆	◆	◆	◆	◆		
40"	◆	◆	◆	◆			
42"	◆	◆	◆	◆			
48"	◆	◆	◆	◆			

Performance Comparison

1. Face to Face F to F Dimension and Valve Weight



Below data from 10" 150LB check valve

Structure	Swing	Dual-plate	Axial Flow	Axial Flow(short)
F to F (mm)	622	146	622	365
Weight(kg)	195	45	184	151

The short face to face design inherently makes dual-plate check valve and axial check valves (short pattern) lighter and more

compact than traditional swing check valves, this will lead to ease of installation and lower operation costs.

2. Available Size Range

Swing check valves have a larger internal cavity as compared to the dual plate design, heavier weight and a longer closing travel distance, and the disc will impact heavily on the seat, this action will easily cause water hammer problems and reduce the disc/seat service life. For this reason swing check valves are not generally recommended for piping system above 36".

The dual-plate check valve and Axial flow check valve internal design minimizes the water hammer problem, it can also significantly improve the flow efficiency which is important for large size piping system. For larger O.D. piping systems, 36" and above, the dual-plate and axial flow check valve designs are recommended and preferred. These valve designs should also be considered for smaller O.D. piping systems where swing check valves have demonstrated flow related problems.

3. Installation Position

The swing check design is not ideal for vertical installation due to its internal structure while the dual-plate and axial flow check valve can be installed in any position because of disc spring assists the tight closure at any position. Moreover dual-plate check valves, have a relatively short face-to-face structure and lower weighted, It is ideal for installation at the location where weight and space are limited.

4. Closure Performance Under Low Pressure

In zero flow conditions, the swing check valve disc/seat seal relies on gravity to remain in the closed position, therefore the sealing performance can be unreliable. The dual plate check and axial flow check designs incorporate springs to assist closure and keep the disc seat face closed against the body seat for a more reliable isolation in zero flow or low pressure applications.

5. Pressure Range

	Swing	Dual-Plate	Axial Flow
150lb	✓	✓	✓
300lb	✓	✓	✓
600lb	✓	✓	✓
900lb	✓	✓	✓
1500lb	✓	✓	✓
2500lb	✓	✓	✓

6. END Connection

	Swing	Dual-plate	Axial Flow
Flange	✓	✓	✓
BW	✓	✓	✓
Wafer	✗	✓	✗
LUG	✗	✓	✗

7. Noise

- Due to the swing check valve's internal design, the disc can tap against the body seat or against the full open stop causing noise and potential flow turbulence.
- Dual-plate and axial flow check valve design have spring assisted discs which can significantly reduce the water hammer
- Problem and operational noise. As flow through the valve slows down, the springs cause the disc plates or disc to start the closing motion. When flow stops, the disc plates are already in the closed position. This design can also minimize any back flow through the check valve which does occur with the normal swing check design.

8. Cost

	Swing	Dual-plate	Axial Flow
Manufacturing cost	Medium	Low	High
Maintenance cost	High	Low	Low
Service life	Low	Medium	Long
Life cycle cost	High	Low	Medium

- Dual-plate check valves have a short face-to-face dimension and the weight is only about 25% that of a comparable size swing check valve. Due to the smaller valve configuration, lower weight and low maintenance cost of the dual plate valve design, the total life cycle cost is lowered. Depending on the body material, dual plate checks offer a cost savings over the larger size swing check design.
- Axial flow check valves, because of their complicated internal structure and relatively involved longer manufacturing process, in general, their manufacturing cost is the highest among 3 type of check valves. However due to the outstanding flow efficiency and performance, and maintenance free characteristics, the total life cycle cost of the axial flow check valve is competitive compare with swing check valves.

9. Flow Efficiency

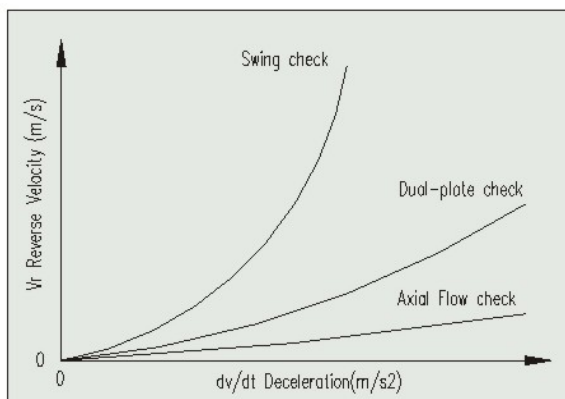


Figure : Dynamic flow performance characteristics.

- Due to swing check valves internal design, water hammer and pressure surge problems can easily occur if the valve is not properly sized for the application. Many piping system failure can be attributed to the improper installation of check valves.
- NEWAY'S axial flow check valve has a venturi port design that reduces flow resistance and improves flow efficiency. The spring aided disc, also gives a tight disc/seat closure seal at all working pressures.
- NEWAY'S dual-plate check valve disc has a slim plate design which offers less restriction to flow at full open position. Compared with many of other manufacturers NEWAY'S dual-plate check valve pressure drop is substantially lower.

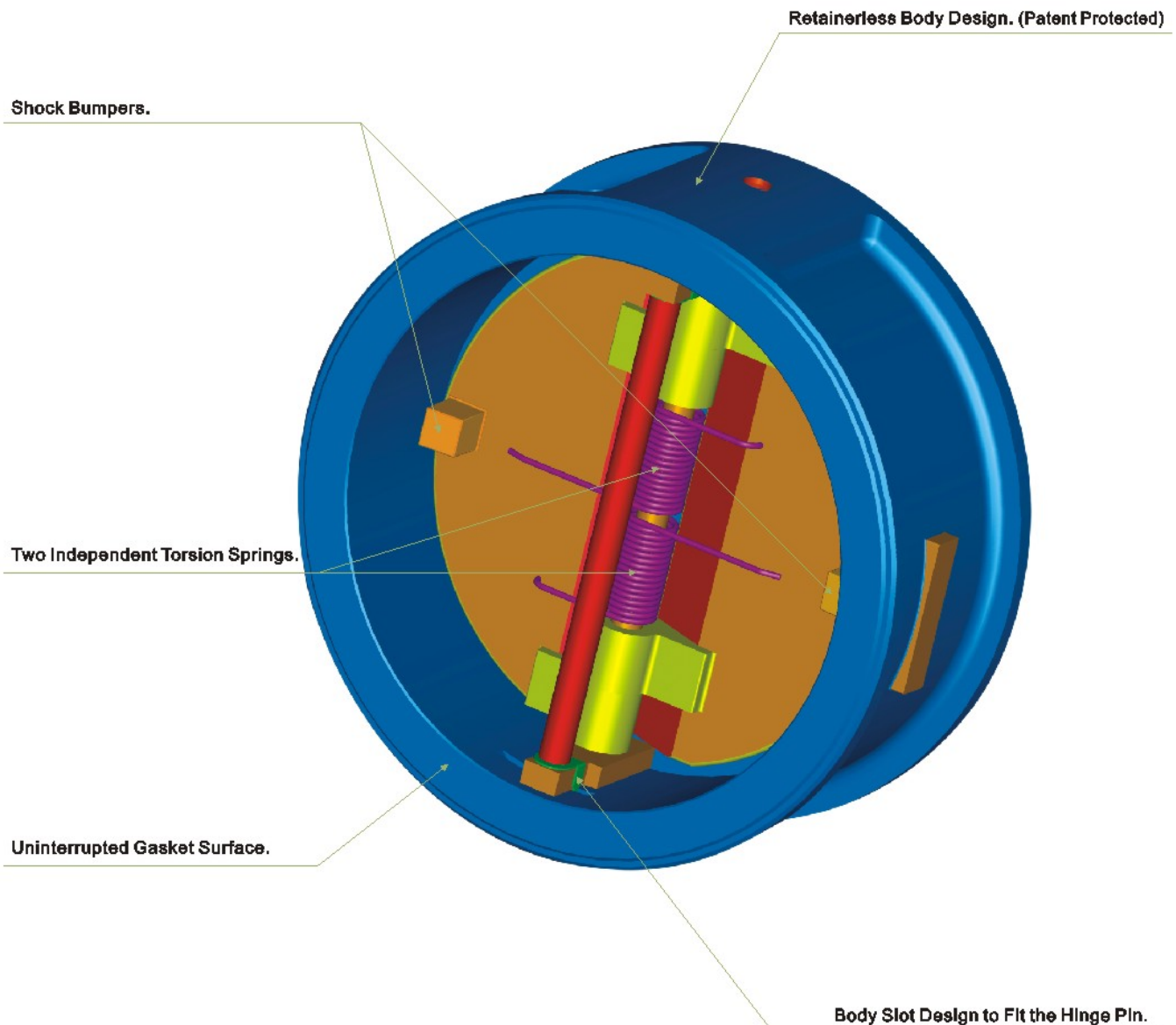


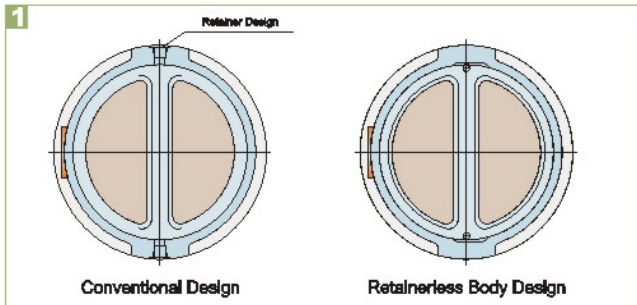
Neway series SBN check valve has a shorter face-to-face dimension and dual plate design, the end connection options include wafer type, lug type and double-flange type, and are available in size from 2" to 60" and in pressure ratings from ASME class 150 through 2500. A wide range of body and trim materials are optional on customer's request.

Compared to conventional swing check valves, NEWAY'S dual plate check valves have the advantage of zero leakage

toward outside (no bolted or threaded connections), cost savings, they can be installed in any line orientation, superior seal performance, offer minimal line shock, lower pressure loss and zero seat wear.

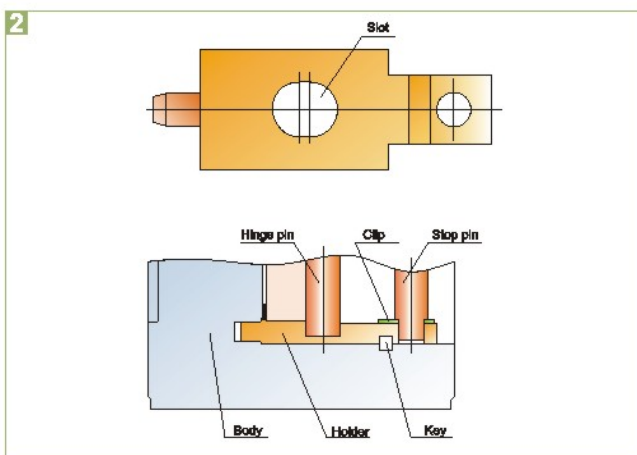
This series of valves are widely used in oil & gas production, petroleum refining, petrochemical, pulp & paper, shipbuilding, and other fluid back flow prevention application.





1 Retainerless Body Design (Patent Protected)

NEWAY'S dual plate valve bodies are a one-piece and short cylinder design with no holes through body wall, there is no need for external pins or plugs and no leakage toward outside. For critical service applications, such as hazardous or poisonous medium, this is a superior choice to minimize unwanted leakage to atmosphere.

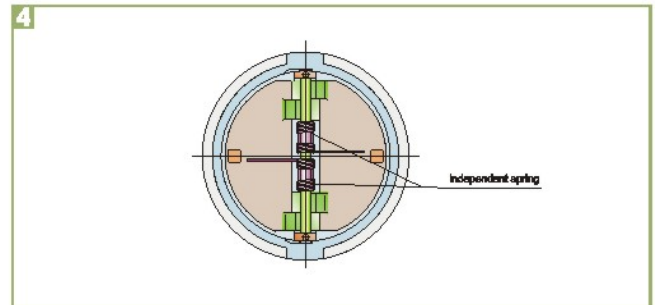


2 Body Slot Design to Fit the Hinge Pin

A body slot with carefully calculated clearance is designed to fit the hinge pin and allows hinge pin to move in the only direction of flow. The design eliminates the possibility of friction caused by the heel of the dual plate.

3. Shock bumpers

The integral cast bumper on the back of the dual plate is an effective design to prevent the frequent hitting, and reduces the pressing from the dual plate against the stop pin when the valve is fully opened. This extends the service life of the valve and minimizes maintenance cost.



4 Two Independent Torsion Springs

Two high torsion springs ensure valve closure as quick as possible, and reduces water hammer, so as to extend valve life and improve system performance.

5. Uninterrupted Gasket Surface

The Neway dual plate design incorporates an internal retention fitting. The fitting does not encroach the gasket sealing surface, to ensure the effective seal between valve and pipeline.

6. Light weight and compact wafer design

Dual plate wafer designs inherently makes this check valve lighter, which is only 10~25% of the weight of conventional swing check valve, to save money in initial valve cost and provides lower installation cost.

7. Flexibility in installation position

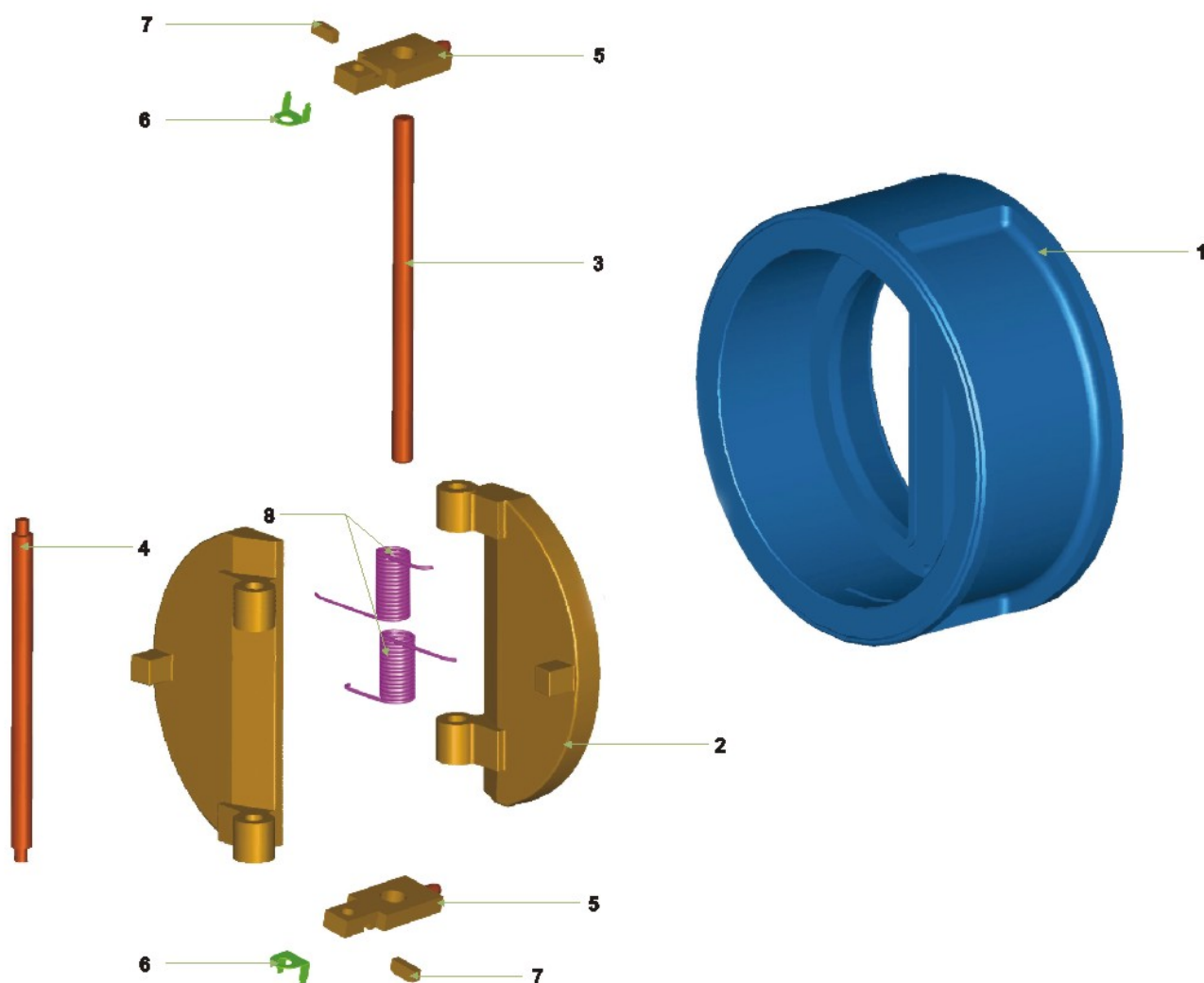
The spring feature aids in keeping the valve closed and the lighter weight in eliminating pipeline bending loads make the valve flexible installed in any position, to allow you to design your piping layout in the most efficient and least expensive method.

8. Dual plate & Flat seat design

When the valve opens, the heel of the dual plate is lifted in the direction of the flow, to avoid that the heel drag across the seating surface and cause wear. When closing the valve, both the two high torsion springs and the back pressure will force disc toe and heel back in turn to the flat seat to complete the seal.

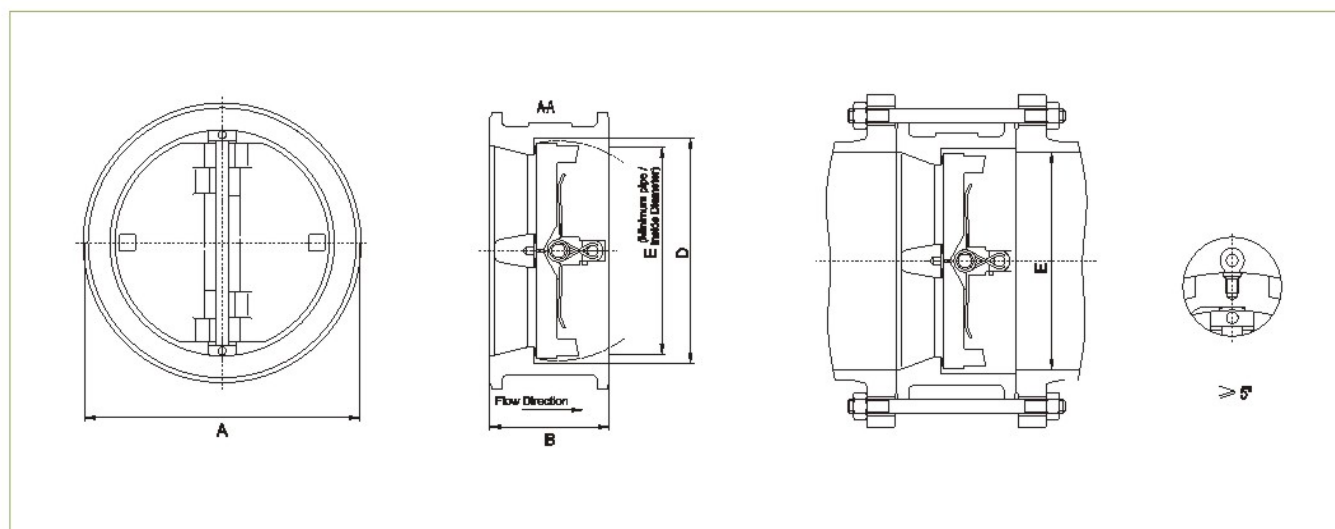
9. Size Range

Due to features of the wafer check light weight, small installation space, spring aids and easy sealing, the valve may be used in the field of larger piping sizes, even in 60" or above piping system.



Materials

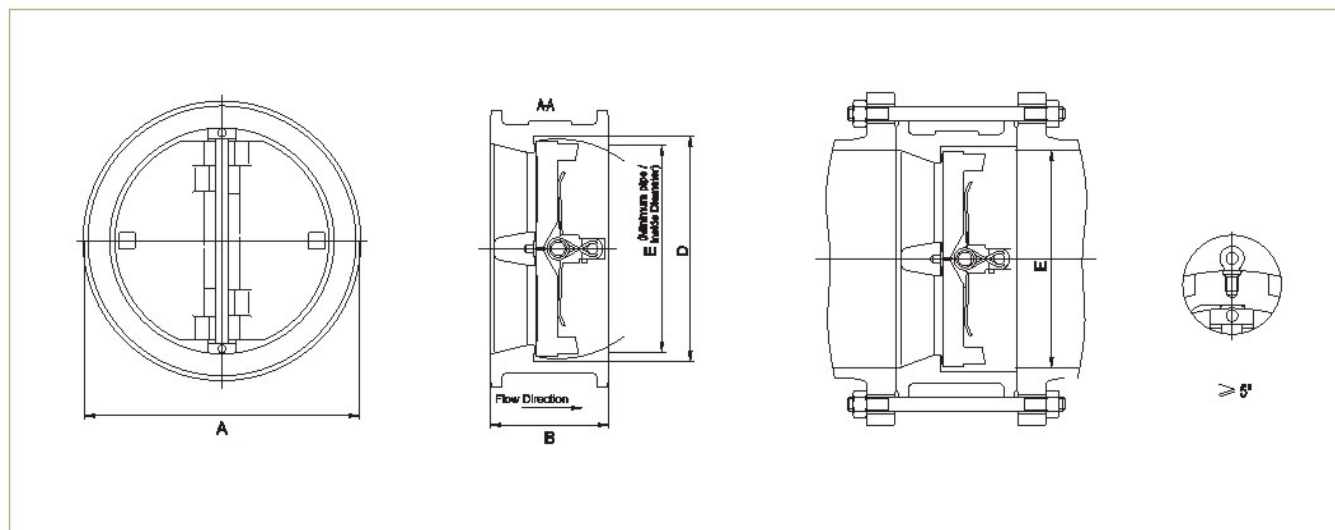
No.	Parts	Materials			
1	Body	ASTM A216-WCB/STL OVERLAY	ASTM A352-LCC/STL OVERLAY	ASTM A217-WC6/STL OVERLAY	ASTM A351 CF8M/STL OVERLAY
2	Disc	ASTM A217-CA15 or ASTM A216-WCB/CR13 OVERLAY	ASTM A351-CF8M or ASTM A352-LCC/316 OVERLAY	ASTM A217-WC6/STL OVERLAY	ASTM A351 CF8M
3	Hinge pin	ASTM A276-410	ASTM A276-316	ASTM A276-410	ASTM A276-316
4	Stop pin	ASTM A276-410	ASTM A276-316	ASTM A276-410	ASTM A276-316
5	Holder	ASTM A276-420	ASTM A276-316	ASTM A276-420	ASTM A276-316
6	Clip	304S.S	316S.S	316S.S	316S.S
7	Key	ASTM A182-F304	ASTM A182-F316	ASTM A182-F304	ASTM A182-F316
8	Spring	INCONEL X-750	INCONEL X-750	INCONEL X-750	INCONEL X-750
9	Hook screw (5" & larger)	AISI 1025	AISI 1025	AISI 1025	304S.S



Wafer type

Wafer Type - ASME Class 150

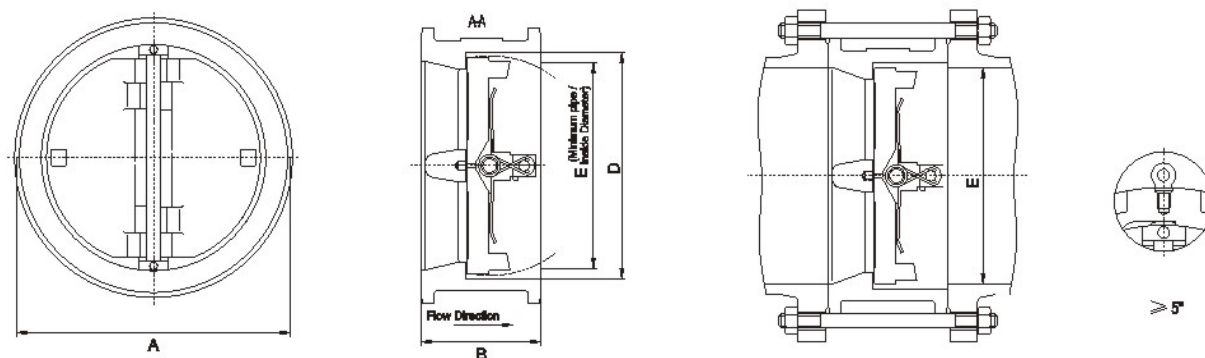
Size		Dimensions								Stud details					End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length						
NPS	DN	In	mm	In	mm	In	mm	In	mm			In	mm	In	mm		In	mm	lbs
2"	50	4.09	104	2.38	60	2.36	60	2.01	51	4	0.63	16	5.75	146	RF	-	-	6	3
2 1/2"	65	4.84	123	2.63	67	2.88	73	2.34	60	4	0.63	16	6.25	159	RF	-	-	11	5
3"	80	5.35	136	2.88	73	2.87	73	2.91	74	4	0.63	16	6.75	171	RF	-	-	11	5
4"	100	6.85	174	2.88	73	4.49	114	3.83	97	8	0.63	16	6.75	171	RF	-	-	18	8
5"	125	7.72	196	3.38	86	5.56	141	4.87	122	8	0.75	19	7.50	191	RF	-	-	28	13
6"	150	8.70	221	3.88	98	6.61	168	5.77	146	8	0.75	19	8.00	203	RF	0.50	13	31	14
8"	200	10.94	278	5.00	127	8.62	219	7.63	194	8	0.75	19	9.50	241	RF	0.50	13	57	26
10"	250	13.35	339	5.75	146	10.75	273	9.56	243	12	0.88	22	10.50	267	RF	0.50	13	98	45
12"	300	16.06	408	7.13	181	12.76	324	11.38	289	12	0.88	22	12.25	311	RF	0.75	19	140	64
14"	350	17.68	449	7.25	184	14.02	356	12.50	318	12	1.00	25	12.75	324	RF	0.75	19	170	77
16"	400	20.12	511	7.50	191	15.98	406	15.00	381	16	1.13	29	13.25	337	RF	1.00	25	230	104
18"	450	21.63	549	8.00	203	18.00	457	16.88	429	16	1.13	29	14.25	362	RF	1.00	25	270	123
20"	500	23.88	606	8.63	219	20.00	508	18.81	478	20	1.25	32	15.25	387	RF	1.00	25	360	163
24"	600	28.25	718	8.75	222	24.00	610	22.63	575	20	1.25	32	16.00	406	RF	1.00	25	480	218
26"	650	30.50	775	14.00	356	26.00	660	24.25	616	24	1.25	32	23.25	581	RF	1.00	25	1000	454
28"	700	32.75	832	15.00	381	28.00	711	-	-	28	1.25	32	24.50	622	RF	1.00	25	1200	544
30"	750	34.75	883	12.00	305	30.00	762	29.25	743	28	1.25	32	21.75	552	RF	1.00	25	1000	454
32"	800	37.00	940	14.00	356	32.00	813	-	-	28	1.50	38	24.75	629	RF	1.00	25	1400	635
36"	900	41.25	1048	14.50	368	36.00	914	35.00	889	32	1.50	38	26.00	660	RF	1.00	25	1750	794
40"	1000	45.75	1162	17.00	432	40.00	1016	-	-	36	1.50	38	28.50	724	RF	1.50	38	2800	1179
42"	1050	48.00	1219	17.00	432	42.00	1067	41.00	1041	36	1.50	38	29.00	737	RF	1.50	38	2850	1293
48"	1200	54.50	1384	20.63	524	48.00	1219	47.00	1194	44	1.50	38	31.00	787	RF	1.50	38	4400	1996
54"	1350	61.00	1549	23.25	591	54.00	1372	51.50	1308	44	1.75	44	35.75	908	RF	1.50	38	5500(2)	2495(2)
60"	1500	67.50	1715	26.00	660	60.00	1524	56.00	1422	52	1.75	44	38.75	984	RF	1.50	38	7200(2)	3268(2)



Wafer type

Wafer Type - ASME Class 300

Size		Dimensions								Stud details					End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length						
NPS	DN	In	mm	In	mm	In	mm	In	mm			In	mm	In	mm		In	mm	Lbs
2"	50	4.37	111	2.38	60	2.52	64	2.01	51	8	0.63	16	6.00	152	RF	-	-	6.5	3
2 1/2"	65	5.08	129	2.63	67	2.88	73	2.34	60	8	0.75	19	6.75	171	RF	-	-	13	6
3"	80	5.87	149	2.88	73	3.70	94	2.91	74	8	0.75	19	7.25	184	RF	-	-	13	6
4"	100	7.09	180	2.88	73	4.65	118	3.83	97	8	0.75	19	7.50	191	RF	-	-	18	8
5"	125	8.46	215	3.38	86	5.58	141	4.87	122	8	0.75	19	8.25	210	RF	-	-	28	13
6"	150	9.84	250	3.88	98	6.77	172	5.77	146	12	0.75	19	9.00	229	RF	0.50	13	40	18
8"	200	12.13	308	5.00	127	8.74	222	7.63	194	12	0.88	22	10.75	273	RF	0.50	13	68	31
10"	250	14.17	360	5.75	146	10.83	275	8.56	243	16	1.00	25	12.25	311	RF	0.50	13	110	50
12"	300	16.57	421	7.13	181	12.91	328	11.38	289	16	1.13	29	14.25	362	RF	0.75	19	170	77
14"	350	19.06	484	8.75	222	14.09	358	12.50	318	20	1.13	29	16.00	406	RF	0.75	19	290	132
16"	400	21.18	538	9.13	232	16.06	408	14.31	364	20	1.25	32	17.00	432	RF	1.00	25	400	181
18"	450	23.50	597	10.38	264	18.00	457	16.88	429	24	1.25	32	18.50	470	RF	1.00	25	520	236
20"	500	25.75	654	11.50	292	20.00	508	17.94	456	24	1.25	32	20.00	508	RF	1.00	25	700	318
24"	600	30.50	775	12.50	318	24.00	610	21.56	548	24	1.50	38	22.00	559	RF	1.00	25	1050	476
26"	650	32.88	835	14.00	356	26.00	660	24.38	619	28	1.63	41	25.00	635	RF	1.00	25	1250	567
28"	700	35.38	899	15.00	381	28.00	711	-	-	28	1.63	41	26.50	673	RF	1.00	25	1500	680
30"	750	37.50	953	14.50	368	30.00	762	28.75	730	28	1.75	44	26.75	679	RF	1.00	25	1650	748
32"	800	39.63	1006	16.00	408	32.00	813	-	-	28	1.88	48	29.00	737	RF	1.00	25	2000	907
36"	900	44.00	1118	19.00	483	36.00	914	35.00	889	32	2.00	51	32.75	832	RF	1.00	25	2700	1225
40"	1000	43.88	1114	21.50	546	36.00	914	-	-	32	1.63	41	35.25	895	RF	1.50	38	3400	1542
42"	1050	45.88	1165	22.38	568	40.00	1016	41.00	1041	32	1.63	41	36.50	927	RF	1.50	38	4200	1905
48"	1200	52.13	1324	24.75	629	44.00	1118	47.00	1194	32	1.88	48	40.50	1029	RF	1.50	38	7350	3334



Wafer type

Wafer Type - ASME Class 600

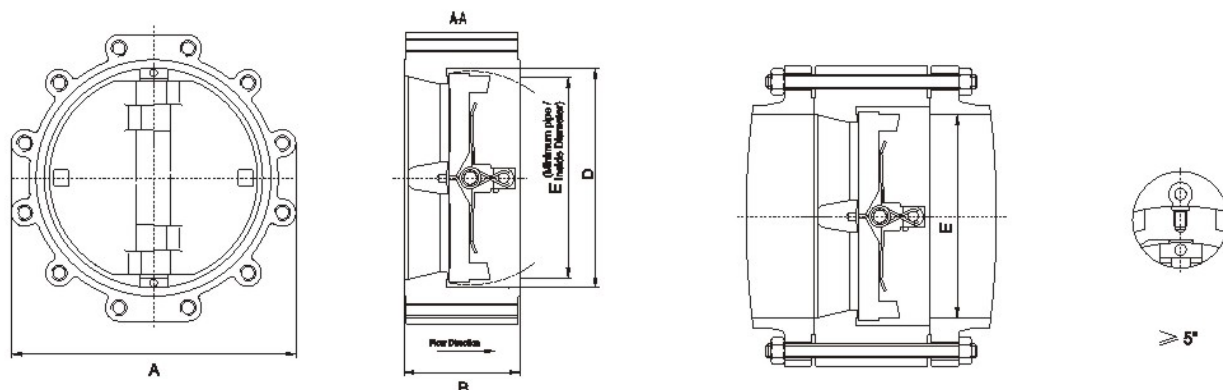
Size		Dimensions								Stud details						End facing	Hook screw hole size		Weight		
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length						
NPS	DN	In	mm	In	mm	In	mm	In	mm			In	mm	In	mm	In	mm	In	mm	lbs	kg
2"	50	4.38	111	2.38	60	2.52	64	2.01	51	8	0.63	16	6.50	165	7.00	178	RF/RTJ#23	-	-	6.5	3
3"	80	5.83	148	2.88	73	3.70	94	2.91	74	8	0.75	19	7.75	197	8.25	210	RF/RTJ#31	-	-	13	6
4"	100	7.63	194	3.13	79	4.85	118	3.83	97	8	0.88	22	8.75	222	9.25	235	RF/RTJ#37	-	-	24	11
6"	150	10.50	267	5.38	137	6.63	168	5.77	148	12	1.00	25	12.00	305	12.75	324	RF/RTJ#45	0.50	13	68	31
8"	200	12.83	321	6.50	165	8.63	219	7.63	194	12	1.13	29	14.25	362	14.75	375	RF/RTJ#49	0.50	13	116	53
10"	250	15.75	400	8.38	213	10.75	273	9.56	243	16	1.25	32	17.00	432	17.60	446	RF/RTJ#53	0.50	13	210	95
12"	300	18.00	457	9.00	229	12.75	324	11.38	289	20	1.25	32	17.75	451	18.25	464	RF/RTJ#57	0.75	19	300	136
14"	350	19.38	492	10.75	273	14.00	356	12.50	318	20	1.38	35	20.25	514	20.75	527	RF/RTJ#61	0.75	19	430	195
16"	400	22.25	565	12.00	305	16.00	406	14.31	364	20	1.50	38	22.25	565	22.75	578	RF/RTJ#65	1.00	25	650	295
18"	450	24.13	613	14.25	362	18.00	457	16.13	410	20	1.63	41	25.25	641	25.75	654	RF/RTJ#69	1.00	25	850	386
20"	500	26.88	683	14.50	368	20.00	508	17.94	456	24	1.63	41	26.00	660	26.75	679	RF/RTJ#73	1.00	25	1125	510
24"	600	31.13	791	17.25	438	24.00	610	21.56	548	24	1.63	41	29.75	758	30.75	781	RF/RTJ#77	1.00	25	1750	794
26"	650	34.13	867	18.00	457	26.00	660	24.00	610	28	1.88	48	31.75	808	32.75	832	RF/RTJ#83	1.00	25	1850	835
28"	700	36.00	914	19.00	483	28.00	711	-	-	28	2.00	51	33.25	845	34.25	870	RF/RTJ#84	1.00	25	2300	1043
30"	750	38.25	972	19.88	505	30.00	762	28.75	730	28	2.00	51	34.25	870	35.25	895	RF/RTJ#86	1.00	25	2850	1283
32"	800	40.25	1022	21.00	533	32.00	813	-	-	28	2.25	57	36.25	921	37.25	946	RF/RTJ#86	1.00	25	3200	1452
36"	900	44.50	1130	25.00	635	36.00	914	33.75	857	28	2.50	64	41.25	1048	42.50	1080	RF/RTJ#88	1.00	25	4700	2132
40"	1000	45.50	1156	26.00	660	36.00	914	-	-	32	2.25	57	44.50	1130	-	-	RF	1.50	38	5200	2359
42"	1050	48.00	1219	27.60	701	38.00	965	39.50	1003	28	2.50	64	47.25	1200	-	-	RF	1.50	38	6000	2722

Wafer Type - ASME Class 900

Size		Dimensions								Stud details								End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length							
NPS	DN	In	mm	In	mm	In	mm	In	mm			In	mm	In	mm	In	mm	In	mm	Lbs	kg	
2"	50	5.63	143	2.75	70	2.38	60	1.89	43	8	0.88	22	8.50	216	8.75	222	RF/RTJ#24	-	-	11.5	3	
3"	80	6.63	168	3.25	83	2.91	74	2.63	67	8	0.88	22	8.50	216	9.00	229	RF/RTJ#31	-	-	21	10	
4"	100	8.13	206	4.00	102	4.50	114	3.44	87	8	1.13	29	10.25	260	10.75	273	RF/RTJ#37	0.38	10	43	20	
6"	150	11.38	289	6.25	159	6.63	168	5.19	132	12	1.13	29	13.25	337	13.75	349	RF/RTJ#45	0.50	13	125	57	
8"	200	14.13	359	8.13	206	8.63	219	6.81	173	12	1.38	35	16.25	413	16.75	425	RF/RTJ#49	0.50	13	275	125	
10"	250	17.13	435	9.50	241	10.75	273	8.50	216	16	1.38	35	18.50	470	18.75	476	RF/RTJ#53	0.50	13	400	181	
12"	300	19.63	498	11.50	292	12.75	324	10.13	257	20	1.38	35	20.75	527	21.25	540	RF/RTJ#57	0.75	19	450	204	
14"	350	20.60	521	14.00	356	14.00	356	11.50	292	20	1.60	38	23.75	603	14.50	622	RF/RTJ#62	0.75	19	700	318	
16"	400	22.63	575	15.13	384	16.00	406	12.81	325	20	1.83	41	25.50	648	26.25	667	RF/RTJ#66	1.00	25	960	431	
18"	450	25.13	638	17.75	451	18.00	457	14.44	367	20	1.88	48	29.25	743	30.00	762	RF/RTJ#70	1.00	25	1400	636	
20"	500	27.60	699	17.75	451	20.00	508	17.94	456	20	2.00	51	30.00	762	31.00	787	RF/RTJ#74	1.00	25	1650	748	
24"	600	33.00	838	19.60	495	24.00	610	21.50	546	20	2.50	64	33.75	867	35.00	889	RF/RTJ#78	1.00	25	2325	1066	

Wafer Type - ASME Class 1500

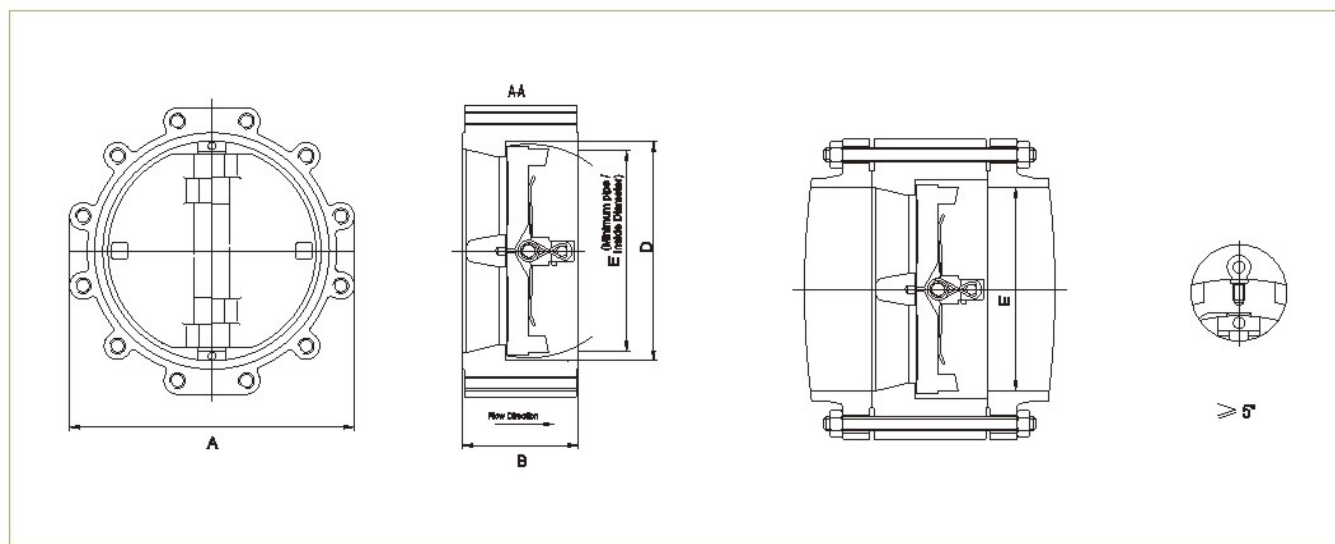
Size		Dimensions								Stud details								End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length							
NPS	DN	In	mm	In	mm	In	mm	In	mm			In	mm	In	mm	In	mm	In	mm	lbs	kg	
2"	50	5.63	143	2.75	70	2.38	60	1.89	43	8	0.88	22	8.50	216	8.75	222	RF/RTJ#24	-	-	11.5	5	
3"	80	6.88	175	3.25	83	2.91	74	2.63	67	8	1.13	29	10.25	260	10.50	267	RF/RTJ#35	-	-	23	10	
4"	100	8.25	210	4.00	102	4.50	114	3.44	87	8	1.25	32	11.75	298	12.00	305	RF/RTJ#39	0.38	10	45	20	
6"	150	11.13	283	6.25	159	6.63	168	5.19	132	12	1.38	35	16.50	419	17.00	432	RF/RTJ#46	0.50	13	125	57	
8"	200	13.88	352	8.13	206	8.63	219	6.81	173	12	1.63	41	19.75	502	20.50	521	RF/RTJ#50	0.50	13	275	125	
10"	250	17.13	435	9.75	248	10.75	273	8.50	216	12	1.88	48	23.25	591	23.75	603	RF/RTJ#54	0.50	13	430	195	
12"	300	20.50	521	12.00	305	12.75	324	10.13	257	16	2.00	51	27.00	686	28.00	711	RF/RTJ#58	0.75	19	700	318	
14"	350	22.75	578	14.00	356	14.00	356	11.50	292	16	2.25	57	30.25	768	31.50	800	RF/RTJ#63	0.75	19	925	420	
16"	400	25.25	641	15.13	384	16.00	406	12.81	325	16	2.50	64	32.75	832	34.25	870	RF/RTJ#67	1.00	25	1300	590	
18"	450	27.75	705	18.44	468	18.00	457	13.75	349	16	2.75	70	38.00	965	39.50	1003	RF/RTJ#71	1.00	25	1900	862	
20"	500	29.75	758	21.00	533	20.00	508	14.75	375	16	3.00	76	42.25	1073	44.00	1118	RF/RTJ#75	1.00	25	2600	1179	
24"	600	35.50	902	22.00	559	24.00	610	15.13	384	16	3.50	89	48.25	1175	48.50	1232	RF/RTJ#79	1.00	25	3725	1690	



Lug type

Lug Type - ASME Class 150

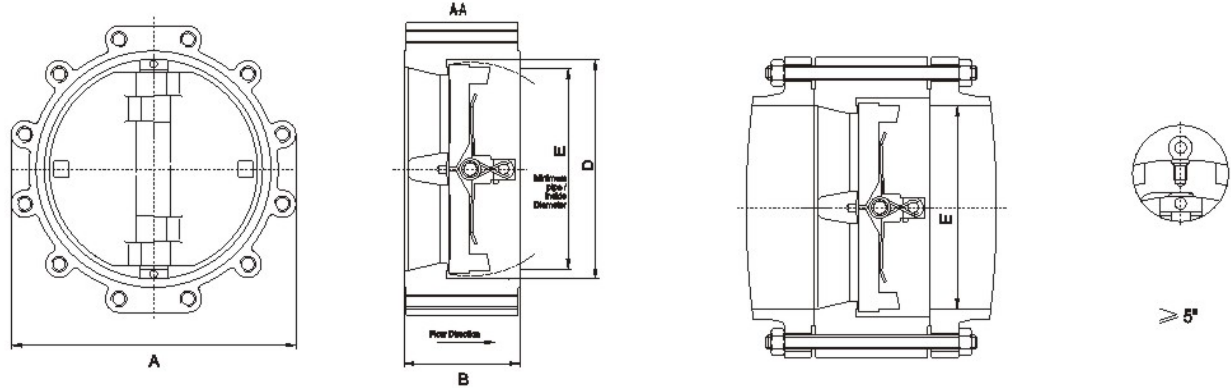
Size		Dimenslons								Stud details						End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length							
NPS	DN	In	mm	In	mm	In	mm	In	mm		In	mm	In	mm	In	mm	In	mm	Lbs	kg
2"	50	8.00	152	2.38	60	2.38	60	2.01	51	4	0.83	16	2.75	70	RF	-	-	9	4	
2 1/2"	65	7.00	178	2.63	67	2.88	73	2.34	60	4	0.83	16	2.75	70	RF	-	-	24	11	
3"	80	7.50	191	2.88	73	2.87	73	2.91	74	4	0.83	16	3.00	76	RF	-	-	18	8	
4"	100	9.00	229	2.88	73	4.49	114	3.83	97	8	0.83	16	3.00	76	RF	-	-	33	15	
5"	125	10.00	254	3.38	86	5.58	141	4.87	122	8	0.75	19	3.25	83	RF	-	-	53	24	
6"	150	11.00	279	3.88	98	6.61	168	5.77	146	8	0.75	19	3.25	83	RF	0.60	13	63	24	
8"	200	13.50	343	5.00	127	8.82	219	7.63	194	8	0.75	19	3.50	89	RF	0.50	13	130	59	
10"	250	16.00	406	6.75	146	10.75	273	9.56	243	12	0.88	22	3.75	95	RF	0.60	13	216	98	
12"	300	19.00	483	7.13	181	12.76	324	11.38	289	12	0.88	22	3.75	95	RF	0.75	19	270	123	
14"	350	21.00	533	7.25	184	14.02	356	12.50	318	12	1.00	25	4.25	106	RF	0.75	19	330	160	
16"	400	23.50	597	7.50	191	15.98	406	15.00	381	16	1.00	29	4.25	108	RF	1.00	25	420	191	
18"	450	25.00	635	8.00	203	18.00	457	16.88	429	16	1.13	29	4.75	121	RF	1.00	25	500	227	
20"	500	27.50	699	8.63	219	20.00	508	18.81	478	20	1.13	32	5.00	127	RF	1.00	25	650	295	
24"	600	32.00	813	8.75	222	24.00	610	22.63	575	20	1.25	32	6.50	140	RF	1.00	25	860	386	
26"	650	34.25	870	14.00	356	28.00	680	24.25	616	24	1.25	32	6.50	165	RF	1.00	25	1600	728	
28"	700	36.50	927	15.00	381	28.00	711	-	-	28	1.25	32	6.50	166	RF	1.00	25	1900	862	
30"	750	38.75	984	12.00	305	30.00	762	29.25	743	28	1.25	32	6.75	171	RF	1.00	25	1700	771	
32"	800	41.75	1060	14.00	356	32.00	813	-	-	28	1.50	38	7.50	191	RF	1.00	25	2400	1089	
36"	900	46.00	1388	14.50	368	38.00	914	35.00	889	32	1.50	38	8.00	203	RF	1.00	25	2800	1270	
40"	1000	50.75	1289	17.00	432	40.00	1016	-	-	36	1.50	38	8.00	203	RF	1.50	38	4100	1860	
42"	1050	53.00	1348	17.00	432	42.00	1067	41.00	1041	36	1.50	38	8.25	210	RF	1.50	38	4400	1996	
48"	1200	59.50	1511	20.63	524	48.00	1219	47.00	1194	44	1.50	38	8.75	222	RF	1.50	38	6600	2994	
54"	1350	66.25	1683	23.25	591	54.00	1372	51.50	1308	44	1.75	44	9.75	248	RF	1.50	38	8300 ⁽²⁾	3765 ⁽²⁾	
60"	1500	73.00	1854	26.00	660	60.00	1524	66.00	1422	52	1.75	44	10.25	260	RF	2.00	51	10700 ⁽²⁾	4853 ⁽²⁾	



Lug type

Lug Type - ASME Class 300

Size		Dimensions								Stud details					End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length						
NPS	DN	In	mm	In	mm	In	mm	In	mm			In	mm	In	mm		In	mm	lbs
2"	50	6.50	165	2.38	60	2.52	64	2.01	51	8	0.83	16	2.75	70	RF	-	-	18	8
2½"	65	7.50	191	2.83	67	2.88	73	2.34	60	8	0.75	19	3.25	83	RF	-	-	28	12
3"	80	8.25	210	2.88	73	3.70	94	2.91	74	8	0.75	19	3.50	89	RF	-	-	33	15
4"	100	10.00	254	2.88	73	4.85	118	3.83	97	8	0.75	19	3.50	89	RF	-	-	55	25
5"	125	11.00	279	3.38	86	5.56	141	4.87	122	8	0.75	19	3.75	95	RF	-	-	70	32
6"	150	12.50	318	3.88	98	6.77	172	5.77	146	12	0.75	19	3.75	95	RF	0.50	13	99	45
8"	200	15.00	381	6.00	127	8.74	222	7.63	194	12	0.88	22	4.25	108	RF	0.50	13	143	65
10"	250	17.50	445	5.75	146	10.83	275	9.56	243	16	1.00	25	4.75	121	RF	0.50	13	233	106
12"	300	20.50	521	7.13	181	12.81	328	11.38	288	16	1.13	29	5.25	133	RF	0.75	19	350	159
14"	350	23.00	584	8.75	222	14.09	358	12.50	318	20	1.13	29	5.25	133	RF	0.75	19	550	250
16"	400	25.50	648	9.13	232	16.06	406	14.31	364	20	1.25	32	5.75	146	RF	1.00	25	750	340
18"	450	28.00	711	10.38	264	18.00	457	16.88	429	24	1.25	32	6.00	152	RF	1.00	25	950	431
20"	500	30.50	775	11.50	292	20.00	508	17.94	456	24	1.25	32	6.00	152	RF	1.00	25	1250	567
24"	600	38.00	914	12.50	318	24.00	610	21.58	548	24	1.50	38	7.00	178	RF	1.00	25	1850	839
26"	650	38.25	972	14.00	356	26.00	660	24.38	619	28	1.83	41	7.75	197	RF	1.00	25	2200	998
28"	700	40.75	1035	15.00	381	28.00	711	-	-	28	1.83	41	8.25	210	RF	1.00	25	2700	1225
30"	750	43.00	1092	14.60	368	30.00	762	28.76	730	28	1.75	44	8.75	222	RF	1.00	25	2800	1270
32"	800	45.25	1149	16.00	406	32.00	813	-	-	28	1.88	48	9.25	235	RF	1.00	25	3400	1542
36"	900	50.00	1270	19.00	483	36.00	914	35.00	889	32	2.00	51	9.75	248	RF	1.00	25	4600	2087
40"	1000	58.75	1298	21.50	546	36.00	914	-	-	32	1.83	41	9.25	235	RF	1.50	38	5100	2313
42"	1050	50.75	1289	22.38	568	40.00	1016	41.00	1041	32	1.83	41	9.50	241	RF	1.50	38	6100	2767
48"	1200	57.75	1467	24.75	629	44.00	1118	47.00	1194	32	1.88	48	10.50	267	RF	1.50	38	10000	4536



Lug type

Lug Type - ASME Class 600

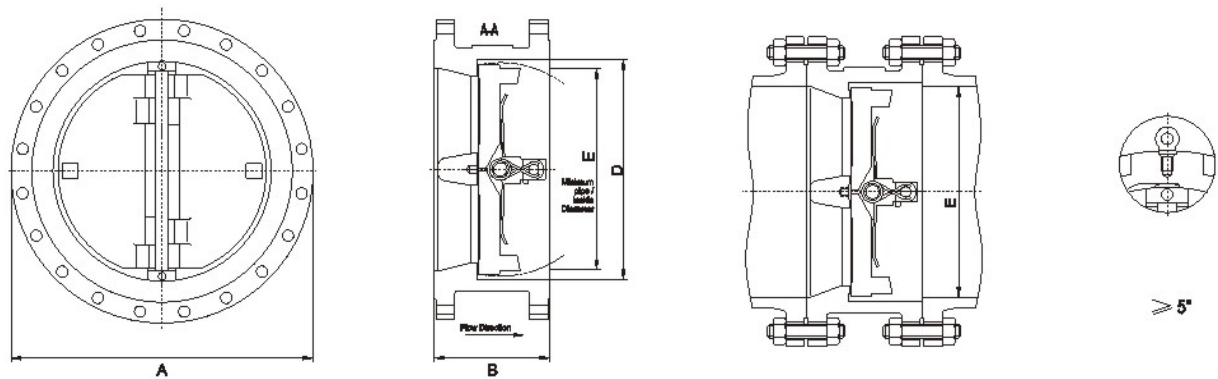
Size		Dimensions								Stud details								End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length							
NPS	DN	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm	in	mm		in	mm	lbs	kg
2"	50	6.50	165	2.38	60	2.52	64	2.01	51	8	0.63	16	3.25	83	3.75	95	RF/RTJ#23	-	-	18	8	
3"	80	8.25	210	2.88	73	3.70	94	2.91	74	8	0.75	19	3.75	95	4.25	108	RF/RTJ#31	-	-	33	15	
4"	100	10.75	273	3.13	79	4.65	118	3.83	97	8	0.88	22	4.25	108	4.75	121	RF/RTJ#37	-	-	86	39	
6"	150	14.00	356	5.38	137	6.63	168	5.77	146	12	1.00	25	5.00	127	5.50	140	RF/RTJ#45	0.50	13	172	78	
8"	200	16.50	419	6.50	165	8.63	219	7.63	194	12	1.13	29	5.75	146	6.00	152	RF/RTJ#49	0.50	13	312	142	
10"	250	20.00	508	8.38	213	10.75	273	9.56	243	16	1.25	32	6.25	159	6.75	171	RF/RTJ#53	0.50	13	515	234	
12"	300	22.00	559	9.00	229	12.75	324	11.38	289	20	1.25	32	6.50	165	6.75	171	RF/RTJ#57	0.75	19	550	250	
14"	350	23.75	603	10.75	273	14.00	356	12.50	318	20	1.38	35	6.75	171	7.25	184	RF/RTJ#61	0.75	19	800	363	
16"	400	27.00	686	12.00	305	16.00	406	14.31	364	20	1.50	38	7.50	191	7.75	197	RF/RTJ#65	1.00	25	1150	522	
18"	450	29.25	743	14.25	362	18.00	457	16.13	410	20	1.63	41	8.00	203	8.50	216	RF/RTJ#69	1.00	25	1550	703	
20"	500	32.00	813	14.50	368	20.00	508	17.94	466	24	1.63	41	8.25	210	9.00	229	RF/RTJ#73	1.00	25	1900	862	
24"	600	37.00	940	17.25	438	24.00	610	21.56	548	24	1.63	41	8.75	222	9.50	241	RF/RTJ#77	1.00	25	3000	1361	
26"	650	40.00	1016	18.00	457	26.00	660	24.00	610	28	1.88	48	9.50	241	10.50	267	RF/RTJ#93	1.00	25	3400	1542	
28"	700	42.25	1073	19.00	483	28.00	711	-	-	28	2.00	51	10.00	254	11.00	279	RF/RTJ#94	1.00	25	4000	1814	
30"	750	44.50	1130	19.88	505	30.00	762	28.75	730	28	2.00	51	10.25	260	11.25	286	RF/RTJ#95	1.00	25	4700	2132	
32"	800	47.00	1194	21.00	533	32.00	813	-	-	28	2.25	57	11.00	279	12.00	305	RF/RTJ#96	1.00	25	5400	2449	
36"	900	61.75	1314	25.00	635	36.00	914	33.75	867	28	2.50	64	11.75	298	13.00	330	RF/RTJ#98	1.00	25	7800	3538	
40"	1000	62.00	1321	26.00	660	36.00	914	-	-	32	2.25	57	12.50	318	-	-	RF	1.50	38	8100	3674	
42"	1050	65.25	1403	27.60	701	38.00	965	39.50	1003	28	2.50	64	13.50	343	-	-	RF	1.50	38	9600	4355	

Lug Type - ASME Class 900

Size		Dimensions								Stud details								End facing	Hook screw hole size		Weight	
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length							
NPS	DN	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	lbs	kg	
2"	50	8.50	216	2.75	70	2.38	60	1.69	43	8	0.88	22	4.25	108	4.75	121	RF/RTJ#24	-	-	37	17	
3"	80	9.50	241	3.25	83	2.91	74	2.63	67	8	0.88	22	4.00	102	4.50	114	RF/RTJ#31	-	-	60	27	
4"	100	11.50	292	4.00	102	4.50	114	3.44	87	8	1.13	29	5.00	127	5.50	140	RF/RTJ#37	-	-	95	43	
6"	150	15.00	381	6.25	159	6.63	168	5.19	132	12	1.13	29	5.25	133	5.75	146	RF/RTJ#45	0.50	13	255	116	
8"	200	18.50	470	8.13	207	8.63	219	6.81	173	12	1.38	35	6.25	159	6.75	171	RF/RTJ#49	0.50	13	480	218	
10"	250	21.50	546	9.50	241	10.75	273	8.50	216	16	1.38	35	6.50	165	7.00	178	RF/RTJ#53	0.50	13	730	331	
12"	300	24.00	610	11.50	292	12.75	324	10.13	257	20	1.38	35	6.75	171	7.25	184	RF/RTJ#57	0.75	19	850	386	
14"	350	25.25	641	14.00	356	14.00	356	11.50	292	20	1.50	38	7.25	184	7.75	197	RF/RTJ#62	0.75	19	1250	567	
16"	400	27.75	705	15.13	384	16.00	406	12.81	325	20	1.63	41	7.75	197	8.50	216	RF/RTJ#68	1.00	25	1650	748	
18"	450	31.00	787	17.75	451	18.00	457	14.44	367	20	1.88	48	8.50	216	9.50	241	RF/RTJ#70	1.00	25	2500	1134	
20"	500	33.75	857	17.75	451	20.00	508	17.94	456	20	2.00	51	9.25	235	10.00	254	RF/RTJ#74	1.00	25	2900	1316	
24"	600	41.00	1041	19.50	495	24.00	610	21.50	546	20	2.50	64	11.00	279	12.00	305	RF/RTJ#78	1.00	25	4400	1996	

Lug Type - ASME Class 1500

Size		Dimensions								Stud details								End facing	Hook screw hole size		weight	
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length							
NPS	DN	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	lbs	kg	
2"	50	8.50	216	2.75	70	2.38	60	1.69	43	8	0.88	22	4.25	108	4.75	121	RF/RTJ#24	-	-	35	16	
3"	80	10.50	267	3.25	83	2.91	74	2.63	67	8	1.13	29	5.25	133	5.75	146	RF/RTJ#35	0.38	10	71	32	
4"	100	12.25	311	4.00	102	4.50	114	3.44	87	8	1.25	32	6.00	152	6.25	159	RF/RTJ#39	0.50	13	150	68	
6"	150	15.50	394	6.25	159	6.63	168	5.19	132	12	1.38	35	7.25	184	7.75	197	RF/RTJ#46	0.50	13	265	120	
8"	200	19.00	483	8.13	207	8.63	219	6.81	173	12	1.63	41	8.25	210	9.00	229	RF/RTJ#50	0.75	19	625	284	
10"	250	23.00	584	9.75	248	10.75	273	8.50	216	12	1.88	48	9.50	241	10.25	260	RF/RTJ#54	0.75	19	798	362	
12"	300	26.50	673	12.00	305	12.75	324	10.13	257	16	2.00	51	10.50	267	11.50	292	RF/RTJ#58	0.75	19	1400	635	
14"	350	29.50	749	14.00	356	14.00	356	11.50	292	16	2.25	57	11.50	292	12.75	324	RF/RTJ#63	1.00	25	2400	1089	
16"	400	32.50	826	15.13	384	16.00	408	12.81	325	16	2.50	64	12.75	324	14.00	356	RF/RTJ#67	1.00	25	2500	1134	
18"	450	36.00	914	18.44	468	18.00	457	13.75	349	16	2.75	70	14.00	356	15.25	387	RF/RTJ#71	1.50	38	3900	1769	
20"	500	38.75	984	21.00	533	20.00	508	14.75	375	16	3.00	76	15.25	387	16.75	425	RF/RTJ#75	1.50	38	5800	2631	
24"	600	46.00	1168	22.00	559	24.00	610	15.13	384	16	3.50	89	17.50	445	19.25	489	RF/RTJ#79	1.50	38	7200	3266	



Double flanged type

Double Flanged Type - ASME Class 150

Size		Dimensions								Stud details						End facing	Weight	
		A		B		D		E		No.	Diameter		RF Stud length					
NPS	DN	In	mm	In	mm	In	mm	In	mm			In	mm	In	mm		lbs	kg
12"	300	19.00	483	7.13	181	12.76	324	11.38	289	12	0.88	22	4.75	121	RF	279	127	
14"	350	21.00	533	7.25	184	14.02	356	12.50	318	12	1.00	25	5.25	133	RF	318	145	
16"	400	23.50	597	7.50	191	15.98	406	15.00	381	16	1.00	29	5.50	140	RF	387	176	
18"	450	25.00	635	8.00	203	18.00	457	16.88	428	16	1.13	29	6.00	152	RF	460	209	
20"	500	27.50	699	8.63	219	20.00	508	18.81	478	20	1.13	32	6.25	159	RF	600	272	
24"	600	32.00	813	8.75	222	24.00	610	22.63	575	20	1.25	32	7.00	178	RF	662	301	
26"	650	34.25	870	14.00	356	26.00	660	24.25	616	24	1.25	32	8.75	222	RF	1500	680	
28"	700	36.50	927	15.00	381	28.00	711	-	-	28	1.25	32	9.00	229	RF	1700	771	
30"	750	38.75	984	12.00	305	30.00	762	29.25	743	28	1.25	32	9.25	235	RF	1750	794	
32"	800	41.75	1060	14.00	356	32.00	813	-	-	28	1.50	38	10.50	267	RF	2300	1043	
36"	900	46.00	1168	14.50	368	36.00	914	35.00	889	32	1.50	38	11.25	286	RF	2525	1145	
40"	1000	50.75	1288	17.00	432	40.00	1016	-	-	36	1.50	38	11.25	286	RF	3900	1769	
42"	1050	53.00	1346	17.00	432	42.00	1067	41.00	1041	36	1.50	38	11.75	298	RF	4220	1914	
48"	1200	58.50	1511	20.63	524	48.00	1219	47.00	1194	44	1.50	38	12.50	318	RF	5900	2676	
54"	1350	66.25	1683	23.25	591	54.00	1372	51.50	1308	44	1.75	44	14.00	356	RF	7700	3493	
60"	1500	73.00	1854	28.00	680	60.00	1524	56.00	1422	52	1.75	44	15.00	381	RF	10000	4536	

Double Flanged Type - ASME Class 300

Size		Dimensions								Stud details				End facing	Weight		
		A		B		D		E		No.	Diameter		RF Stud length				
NPS	DN	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm		lbs
12"	300	20.50	521	7.13	181	12.91	328	11.38	289	16	1.13	29	6.75	171	RF	336	152
14"	350	23.00	584	8.75	222	14.09	358	12.50	318	20	1.13	28	7.00	178	RF	431	196
16"	400	25.50	648	9.13	232	16.06	408	14.31	364	20	1.25	32	7.50	191	RF	675	306
18"	450	28.00	711	10.38	264	18.00	457	16.88	429	24	1.25	32	7.75	197	RF	850	386
20"	500	30.50	775	11.50	292	20.00	508	17.94	456	24	1.25	32	8.25	210	RF	1078	489
24"	600	36.00	914	12.50	318	24.00	610	21.56	548	24	1.50	38	9.25	235	RF	1965	891
26"	650	38.25	972	14.00	356	26.00	660	24.38	619	28	1.63	41	10.50	267	RF	2200	998
28"	700	40.75	1035	15.00	381	28.00	711	-	-	28	1.63	41	11.00	279	RF	2800	1179
30"	750	43.00	1092	14.50	368	30.00	762	28.75	730	28	1.75	44	11.75	298	RF	3525	1599
32"	800	45.25	1149	16.00	406	32.00	813	-	-	28	1.88	48	12.75	324	RF	3300	1497
36"	900	50.00	1270	19.00	483	36.00	914	35.00	889	32	2.00	51	13.25	337	RF	4700	2132
40"	1000	58.75	1238	21.50	546	36.00	914	-	-	32	1.63	41	13.25	337	RF	4900	2223
42"	1050	50.75	1289	22.38	568	40.00	1016	41.00	1041	32	1.63	41	13.75	349	RF	5000	2268
48"	1200	57.75	1467	24.75	629	44.00	1118	47.00	1194	32	1.88	48	15.25	387	RF	7400	3357

Double Flanged Type - ASME Class 600

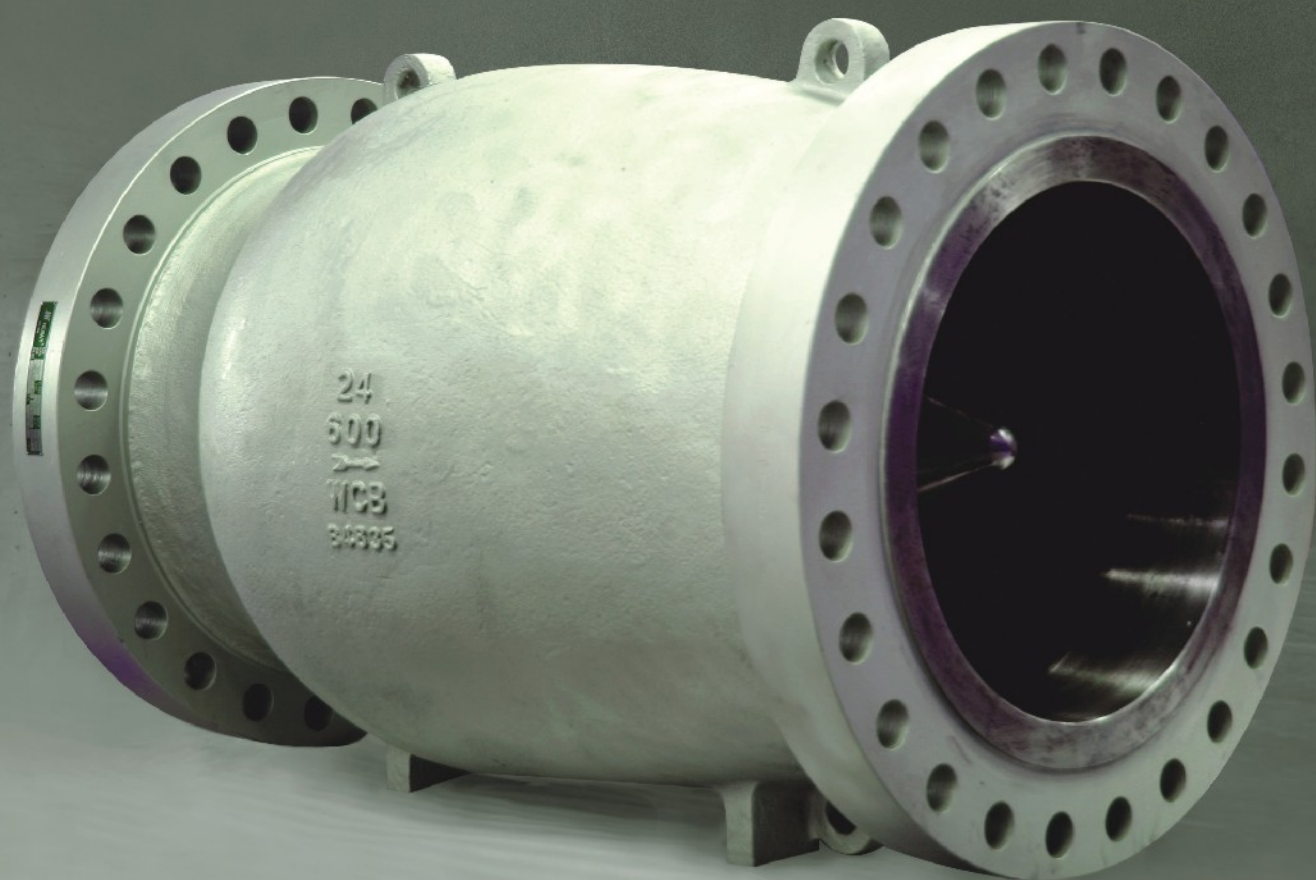
Size		Dimensions								Stud details								End facing	Weight	
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length					
NPS	DN	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm	in	mm	lbs	kg	
12"	300	22.00	568	9.00	229	12.75	324	11.38	289	20	1.25	32	8.50	216	9.00	229	RF/RTJ#67	660	249	
14"	350	23.75	603	10.75	273	14.00	358	12.50	318	20	1.38	35	9.00	229	9.50	241	RF/RTJ#81	846	384	
16"	400	27.00	686	12.00	306	16.00	408	14.31	364	20	1.60	38	9.75	248	10.25	260	RF/RTJ#66	1010	458	
18"	450	29.25	743	14.25	362	18.00	457	16.13	410	20	1.83	41	10.50	267	11.00	279	RF/RTJ#89	1320	599	
20"	500	32.00	813	14.50	368	20.00	508	17.94	456	24	1.63	41	11.25	286	11.75	298	RF/RTJ#73	1700	771	
24"	600	37.00	940	17.25	438	24.00	610	21.56	548	24	1.83	41	12.25	311	13.00	330	RF/RTJ#77	2580	1170	
26"	650	40.00	1016	18.00	457	26.00	660	24.00	610	28	1.88	48	13.25	337	14.25	362	RF/RTJ#93	3100	1406	
28"	700	42.25	1073	19.00	483	28.00	711	-	-	28	2.00	51	14.00	356	15.00	381	RF/RTJ#94	3800	1724	
30"	750	44.50	1130	19.88	506	30.00	762	28.75	730	28	2.00	51	14.00	356	15.00	381	RF/RTJ#95	5390	2445	
32"	800	47.00	1194	21.00	533	32.00	813	-	-	28	2.25	57	14.75	375	16.00	406	RF/RTJ#96	6000	2722	
36"	900	51.75	1314	25.00	635	36.00	914	33.75	857	28	2.50	64	16.00	406	17.00	432	RF/RTJ#98	6700	3039	
42"	1050	55.25	1403	27.60	701	38.00	965	39.50	1003	28	2.50	64	19.50	495	-	-	RF	9400	4264	

Double Flanged Type - ASME Class 900

Size		Dimensions								Stud details								End facing	Weight	
		A		B		D		E		No.	Diameter		RF Stud length		RFJ Stud length					
NPS	DN	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm	in	mm	lbs	kg	
12"	300	24.00	610	11.50	292	12.75	324	10.13	257	20	1.38	35	8.75	222	9.25	235	RF/RTJ#57	770	349	
14"	350	25.25	641	14.00	358	14.00	358	11.50	292	20	1.50	38	9.25	235	10.00	254	RF/RTJ#62	1240	562	
16"	400	27.75	705	15.13	384	16.00	406	12.81	325	20	1.63	41	10.00	254	10.75	273	RF/RTJ#66	1210	549	
18"	450	31.00	787	17.75	451	18.00	457	14.44	367	20	1.88	48	11.00	279	11.75	298	RF/RTJ#70	1845	837	
20"	500	33.75	857	17.75	451	20.00	508	17.94	456	20	2.00	51	12.00	305	12.75	324	RF/RTJ#74	3940	1787	
24"	600	41.00	1041	19.50	496	24.00	610	21.50	546	20	2.50	64	14.00	356	15.00	381	RF/RTJ#78	4175	1894	

Note:

1. A = OD 2. B = F to F 3. D = ID 4. E = Minimum ID 5. Yellow part is amended by technical Dept. 6. Above data are originated from Velan catalogue VEL-PQCV-2006



Neway series SA axial flow check valve is a streamlined venturi port design and available in size from 2" to 48" and in pressure rating from ASME class 150 through 2500 and a wide range of body and trim materials for special application requirement.

In Neway axial flow check valve, the disc is the only moving part to minimize internal wear, and the configuration of disc, seating and body provides streamlined flow path with a venturi effect so as to reduce pressure loss as small as possible. The compressed disc spring initiates valve closure

as flow slows down and provides quick reaction on flow velocity change.

These unique design features ensure Neway series SA valves can deliver an effective dynamic reaction under various flow deceleration conditions, this design valve can be used in a wide range of critical and demanding service applications, such as fast-reversing reciprocating compressor system or in installations where the check valve must be placed in close proximity to the pump inlet or outlet.

Flow Outlet Side Designed to ensure pressure recovery and minimize fluid turbulence.

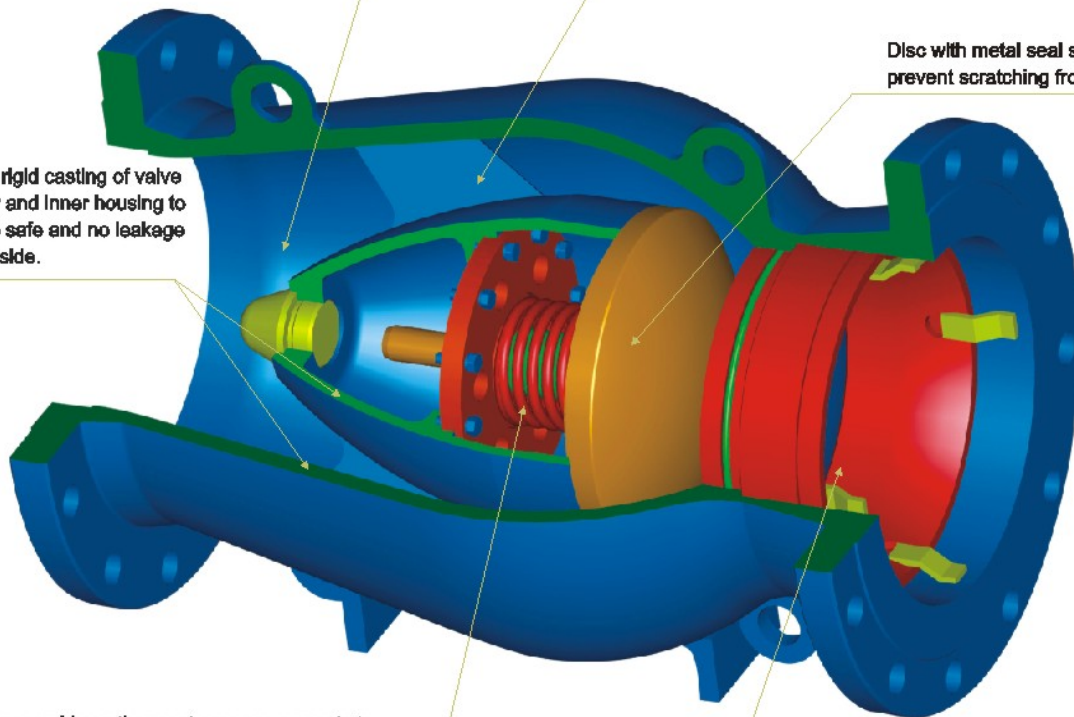
Streamlined Venturi Shape Design to ensure flow efficiency and minimize pressure loss.

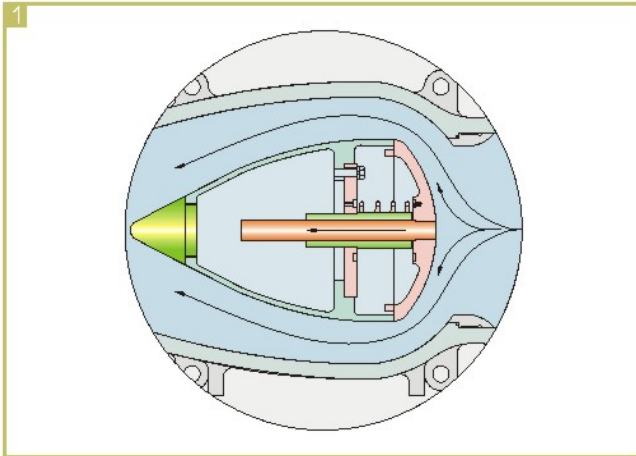
Disc with metal seal surface to effectively prevent scratching from the lumps in flow.

Integrated rigid casting of valve outer body and inner housing to ensure fire safe and no leakage toward outside.

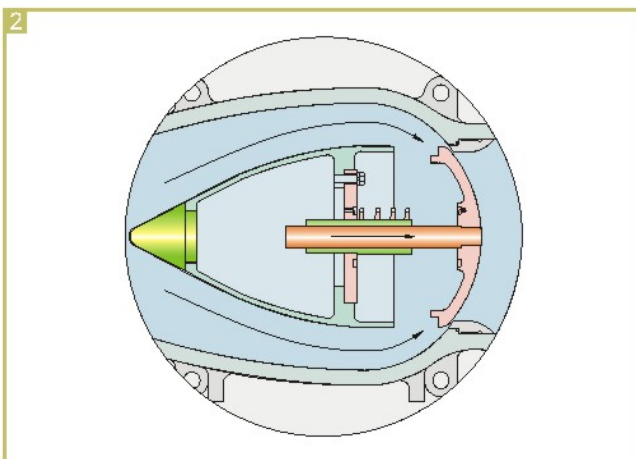
Spring subassembly as the most core components to ensure the effective reaction and adjustment for the change of the flow velocity.

Seat & Flow Inlet Side designed for maximizing flow impact on disc and providing streamlined flow to minimize pressure loss.





1. The whole valve port geometry is a streamlined venturi shape design: both the body and seat design are suitable for medium flowing while the complete surface of disc is round, and the support frame at valve outlet is designed into taper structure. The design features ensure flow efficiency of the service medium and minimize pressure loss.



2. As the inlet flow reduces, the disc reacts immediately so as to limit medium backflow and valve slamming. Because of the features of the spring load, low mass disc and shorter travel, the disc can be closed as quickly as possible. At the moment of zero flow the disc is fully closed.

3. Under low pressure conditions, the internal spring preload on the disc drives disc tightly against seat to seal. Axial flow check valves can overcome the generic problem that the conventional swing check valve has with bad sealing performance under the low pressure condition.

4. Water Hammer Free Water hammer problems are eliminated with this design because of the spring loaded disc, properly sized for your specific application, low mass and short closure stroke. The spring initiates disc closure of the disc before water hammer effects can occur.

5. The axial flow Check can be installed at any position. Comparing to conventional swing check valve, customer can make more choices.

6. The axial flow check valves are available in both long pattern and short pattern.

7. In axial flow check valve, the disc is the only moving part, offering high operating reliability.

8. Comparing with two piece body design, the one piece body structure has advantages on fire safe when fire happens, because there is no leakage toward outside.

9. As the sealing surface is a metal material, comparing with soft seal materials, it is more effective to prevent scratching the seal surface from particles in flow media.

10. Valve internal port geometry is a streamlined venturi shape design, to ensure minimal pressure loss. This energy saving feature typically experiences less than half of the pressure drop found in swing check designs.

Below is some figures from CF desing software's analysis on axial flow check valve:

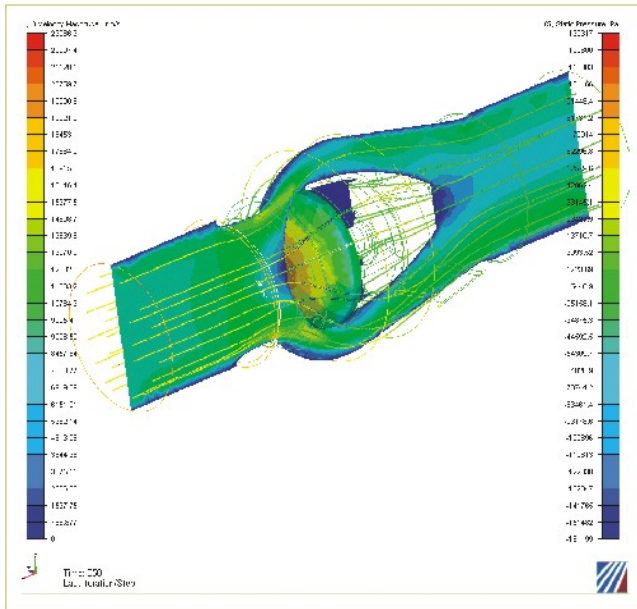


Figure 1: Flow trace and velocity distribution at cutting plane

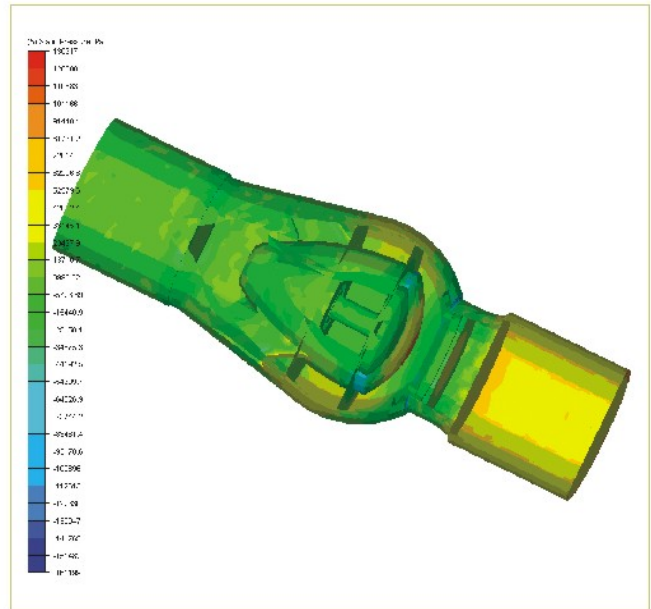


Figure 2: Internal Component's Pressur Distribution shown by virtue of Model "Exploding Picture"

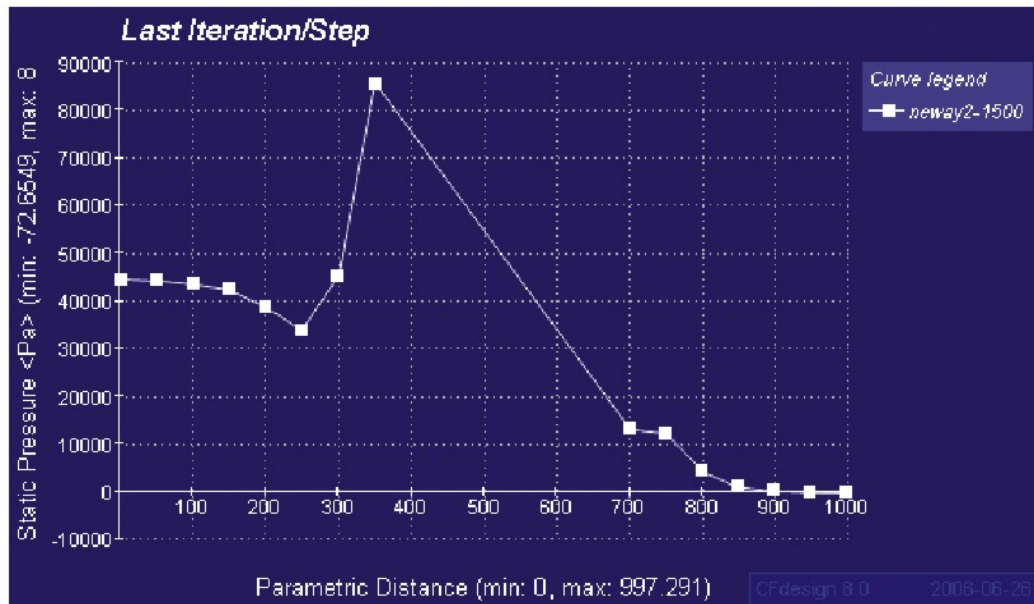
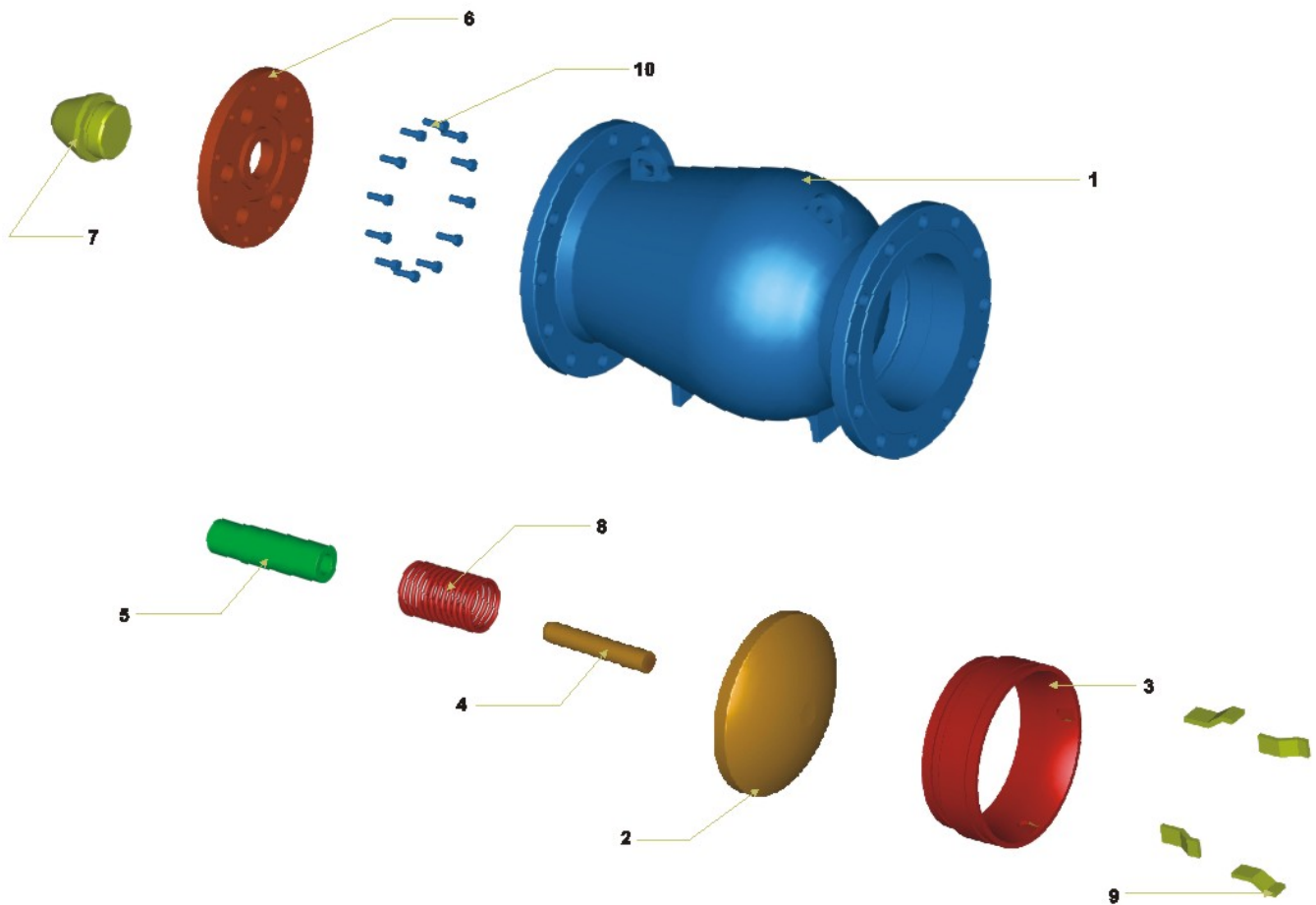
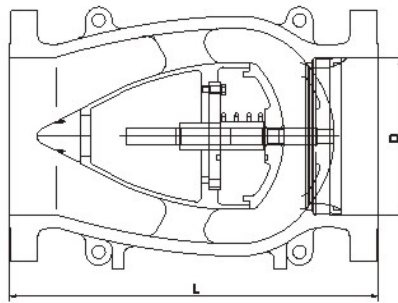


Figure 3: Pressure Curve Between Inlet Section Centre and Outlet Section Centre

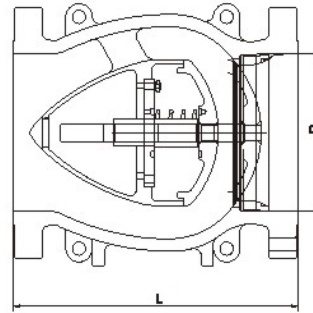


Materials

No.	Part	Material			
1	BODY	ASTM A216-WCB	ASTM A352-LCC	ASTM A217-WC6	ASTM A351 CF8M
2	DISC	ASTM A216-WCB/ER410 ASTM A217-CA15(below)	ASTM A352-LCC/316.OVERLAY	ASTM A217-WC6/STL.OVERLAY	ASTM A351 CF8M
3	SEAT	ASTM A105/STL.OVERLAY	ASTM A182-F316/STL.OVERLAY	ASTMA182-F11/STL.OVE RLAY	ASTM-A182-F316/STL.OVERLAY
4	LEADING POLE	304S.S	316S.S	304S.S	316S.S
5	GUIDEDING SLEEVE	304S.S	316S.S	304S.S	316S.S
6	SUPPORTING PLATE	ASTM A105	316S.S	304S.S	316S.S
7	BLOCKING PLATE	ASTM A105	316S.S	304S.S	316S.S
8	SPRING	INCONEL X-750	INCONEL X-750	INCONEL X-750	INCONEL X-750
9	RETAINING TAB	AISI 1025	AISI 1025	AISI 1025	AISI 1025
10	STUD	B8	B8	B8	B8



Long pattern



Short pattern

Flange End - ASME Class 150

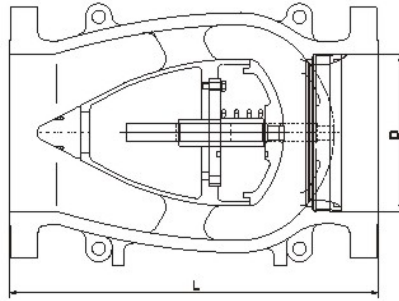
Size		Dimensions						Weight			
		D		L							
				Long pattern(RF/BW)		Short pattern(RF/BW)		Long pattern		Short pattern	
NPS	DN	In	mm	In	mm	In	mm	lbs	kg	lbs	kg
2	50	2.01	51	7.99	203	-	-	31	14	-	-
3	80	2.89	76	9.48	241	-	-	53	24	-	-
4	100	4.02	102	11.5	292	-	-	86	39	-	-
6	150	5.88	152	14.02	356	9.96	253	148	67	134	61
8	200	7.99	203	19.49	495	11.61	295	260	118	216	98
10	250	10	254	24.49	622	14.37	365	406	184	333	151
12	300	12.01	305	27.52	699	17.13	435	584	265	474	215
14	350	13.27	337	30.98	787	18.7	475	787	357	631	286
16	400	15.24	387	34.02	864	21.46	545	1091	495	877	398
18	450	17.24	438	38.5	978	24.02	610	1157	525	959	435
20	500	19.25	489	38.5	978	28.57	675	1770	803	1504	682
22	550	21.26	540	42.01	1067	-	-	1882	858	1580	721
24	600	23.27	591	50.98	1296	31.89	810	2610	1184	2167	983
28	700	27.01	686	57.01	1448	37.2	945	3316	1504	-	-
30	750	29.02	737	60	1524	39.76	1010	4125	1871	-	-
34	850	32.78	832	-	-	-	-	5761	2613	-	-
36	900	34.49	876	77.01	1956	47.83	1215	6486	2942	-	-
40	1000	38.5	978	85	2159	53.15	1350	8765	3976	-	-
42	1060	40.24	1022	89.02	2281	55.71	1415	10423	4728	-	-
48	1200	45.98	1168	101.02	2568	63.58	1615	13843	6279	-	-

Note: Long pattern is a Newey standard dimension

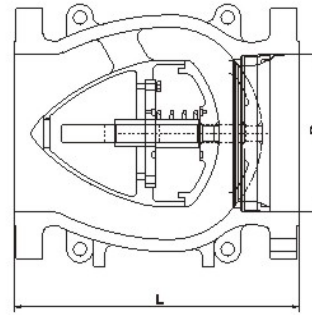
Flange End - ASME Class 300

Size		Dimensions						Weight			
		D		L							
				Long pattern(RF/BW)		Short pattern(RF/BW)		Long pattern		Short pattern	
NPS	DN	In	mm	In	mm	In	mm	lbs	kg	lbs	kg
2	50	2.01	51	10.51	267	-	-	40	18	-	-
3	80	2.89	76	12.52	318	-	-	75	34	-	-
4	100	4.02	102	14.02	356	-	-	121	55	-	-
6	150	5.88	152	17.52	445	9.96	253	220	100	192	87
8	200	7.99	203	20.98	533	11.61	295	370	168	317	144
10	250	10	254	24.49	622	14.37	365	606	275	507	230
12	300	12.01	305	27.99	711	17.13	435	802	364	675	306
14	350	13.27	337	32.99	838	18.7	475	1098	498	915	415
16	400	15.24	387	34.02	864	21.46	545	1440	653	1197	543
18	450	17.24	438	38.5	978	24.02	610	1967	892	1609	730
20	500	19.25	489	40	1016	28.57	675	2533	1149	2202	999
22	550	21.26	540	44.02	1118	-	-	3038	1378	2612	1185
24	600	23.27	591	52.99	1346	31.89	810	3699	1678	3144	1426
28	700	27.01	686	59.02	1499	37.2	945	5101	2314	4361	1978
30	750	29.02	737	62.76	1594	39.76	1010	6195	2810	5265	2388
34	850	32.78	832	-	-	-	-	8545	3876	-	-
36	900	34.49	876	82.01	2083	47.83	1215	9647	4376	-	-
40	1000	38.5	978	95.98	2438	53.15	1350	12064	5472	-	-
42	1060	40.24	1022	103.03	2617	55.71	1415	13521	6133	-	-
48	1200	45.98	1168	124.06	3151	63.58	1615	17855	8099	-	-

Note: Long pattern is a Newey standard dimension



Long pattern



Short pattern

Flange End - ASME Class 400

Size		Dimensions										Weight			
		D		L											
NPS	DN	In	mm	Long pattern(RF/BW)		Long pattern(RTJ)		Short pattern(RF/BW)		Short pattern(RTJ)		Long pattern		Short pattern	
				In	mm	In	mm	In	mm	In	mm	In	mm	lbs	kg
2	50	2.01	51	11.5	292	11.61	295	-	-	-	-	51	23	-	-
3	80	2.99	76	14.02	356	14.13	359	-	-	-	-	97	44	-	-
4	100	4.02	102	17.01	432	17.13	435	-	-	-	-	154	70	-	-
6	150	5.98	152	22.01	559	22.13	562	9.96	253	10.08	256	295	134	247	112
6	200	7.99	203	25.98	660	26.1	663	11.61	295	11.73	298	492	223	410	186
10	250	10	254	30.98	787	31.1	790	14.37	366	14.49	368	743	337	604	274
12	300	12.01	305	32.99	838	33.11	841	17.13	435	17.24	438	957	434	736	334
14	350	13.27	337	35	889	35.12	892	18.7	475	18.82	478	1268	575	988	448
16	400	15.24	387	39.02	991	39.13	994	21.48	545	21.57	548	-	-	-	-
18	450	17.24	438	42.99	1092	43.11	1095	24.02	610	24.13	613	-	-	-	-
20	500	19.25	489	47.01	1194	47.24	1200	26.57	675	26.81	681	-	-	-	-
22	550	21.26	540	50.98	1295	51.38	1305	-	-	0	-	-	-	-	-
24	600	23.27	591	55	1397	55.39	1407	31.89	810	32.24	819	-	-	-	-
28	700	27.01	686	62.99	1600	63.5	1613	37.2	945	37.72	958	-	-	-	-
30	750	29.02	737	65	1651	65.51	1664	39.76	1010	40.28	1023	-	-	-	-
34	850	32.76	832	-	-	-	-	-	-	0	-	-	-	-	-
36	900	34.49	876	82.01	2083	82.64	2099	47.83	1215	48.46	1231	-	-	-	-
40	1000	38.6	978	90	2286	-	-	53.15	1350	-	-	-	-	-	-
42	1050	40.24	1022	95.98	2438	-	-	55.71	1415	-	-	-	-	-	-
48	1200	46.98	1188	100	2540	-	-	63.58	1615	-	-	-	-	-	-

Note: Long pattern is a Neway standard dimension

Flange End - ASME Class 600

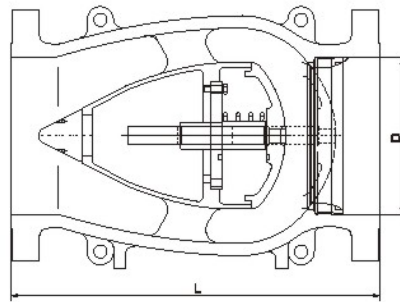
Size		Dimensions										Weight			
		D		L											
NPS	DN	In	mm	Long pattern(RF/BW)		Long pattern(RTJ)		Short pattern(RF/BW)		Short pattern(RTJ)		Long pattern		Short pattern	
				In	mm	In	mm	In	mm	In	mm	lbs	kg	lbs	kg
2	50	2.01	51	11.5	292	11.61	295	-	-	-	-	53	24	-	-
3	80	2.99	76	14.02	356	14.13	359	-	-	-	-	97	44	-	-
4	100	4.02	102	17.01	432	17.13	435	-	-	-	-	168	76	-	-
6	160	5.98	162	22.01	558	22.13	562	9.98	253	10.08	256	368	167	309	140
8	200	7.99	203	25.98	660	26.1	663	11.61	295	11.73	298	615	279	514	233
10	260	10	264	30.98	787	31.1	790	14.37	365	14.49	368	966	438	785	356
12	300	12.01	305	32.99	838	33.11	841	17.13	435	17.24	438	1281	572	966	438
14	360	13.27	337	35	889	35.12	892	18.7	475	18.82	478	1563	709	1219	553
16	400	15.24	387	39.02	991	39.13	994	21.46	545	21.57	548	2310	1048	1854	841
18	450	17.24	438	42.99	1092	43.11	1096	24.02	610	24.13	613	2857	1296	2231	1012
20	500	19.25	489	47.01	1194	47.24	1200	26.57	675	26.61	681	3739	1696	2890	1311
22	560	21.28	540	50.98	1295	51.38	1305	-	-	0	-	4603	2088	3589	1628
24	600	23.27	591	55	1397	55.39	1407	31.89	810	32.24	819	5172	2346	4081	1851
28	700	27.01	686	62.99	1600	63.5	1613	37.2	945	37.72	958	8113	3680	6570	2980
30	750	29.02	737	65	1651	65.51	1664	39.76	1010	40.28	1023	9700	4400	8031	3643
34	850	32.78	832	-	-	-	-	-	-	0	-	13139	5960	10512	4768
36	900	34.49	876	82.01	2083	82.64	2099	47.83	1215	48.46	1231	14286	6480	11343	5145
40	1000	38.5	978	90	2286	-	-	53.15	1350	-	-	15887	7120	-	-
42	1050	40.24	1022	95.98	2438	-	-	55.71	1415	-	-	17284	7840	-	-
48	1200	45.98	1168	100	2540	-	-	63.58	1615	-	-	19577	8880	-	-

Note: Long pattern is a Neway standard dimension

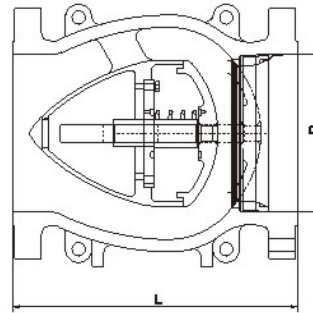
Flange End - ASME Class 900

Size		Dimensions										Weight			
		D		L											
NPS	DN	In	mm	Long pattern(RF/BW)		Long pattern(RTJ)		Short pattern(RF/BW)		Short pattern(RTJ)		Long pattern		Short pattern	
				In	mm	In	mm	In	mm	In	mm	lbs	kg	lbs	kg
2	50	2.01	51	14.49	368	14.61	371	-	-	-	-	128	58	-	-
3	80	2.99	76	15	381	16.12	384	-	-	-	-	196	89	-	-
4	100	4.02	102	17.99	457	18.11	460	9.25	235	9.37	238	251	114	203	92
6	160	5.98	162	24.02	610	24.13	613	11.81	300	12.06	306	485	220	390	177
8	200	7.99	203	29.02	737	29.13	740	13.19	335	13.54	344	924	419	710	322
10	260	10	264	32.99	838	33.11	841	15.16	385	15.51	394	1429	648	1066	479
12	300	12.01	305	37.99	965	38.11	968	17.13	435	17.78	451	1885	848	1351	613
14	360	12.76	324	40.51	1029	40.87	1038	18.7	475	19.45	494	2434	1104	1907	866
16	400	14.76	375	44.49	1130	44.88	1140	21.46	545	24.02	610	3351	1520	2778	1260
18	460	16.73	425	47.99	1219	48.5	1232	24.02	610	24.88	632	5291	2400	-	-
20	500	18.62	473	52.01	1321	52.48	1333	26.57	675	27.44	697	7055	3200	-	-
24	600	22.52	572	60.98	1549	61.73	1568	31.89	810	32.99	838	9171	4180	-	-
30	750	28.11	714	72.99	1854	73.88	1876	-	-	-	-	15809	7080	-	-
36	900	33.74	857	84.88	2166	-	-	-	-	-	-	22487	10200	-	-

Note: Long pattern is a Neway standard dimension



Long pattern



Short pattern

Flange End - ASME Class 1500

Size		Dimensions										weight			
		D		L											
NPS	DN	In	mm	Long pattern(RF/BW)		Long pattern(RTJ)		Short pattern(RF/BW)		Short pattern(RTJ)		Long pattern		Short pattern	
				In	mm	In	mm	In	mm	In	mm	lbs	kg	lbs	kg
2	50	2.01	51	14.49	368	14.61	371	-	-	-	-	126	57	-	-
3	80	2.99	76	18.5	470	18.62	473	-	-	-	-	240	109	-	-
4	100	4.02	102	21.5	546	21.61	548	9.25	235	9.37	238	386	175	-	-
6	150	5.75	146	27.76	705	27.99	711	11.81	300	12.05	306	870	440	772	350
8	200	7.64	194	32.76	832	33.15	842	13.19	335	13.54	344	1459	662	1166	529
10	250	9.49	241	39.02	991	39.37	1000	15.16	365	15.51	394	2604	1181	2132	967
12	300	11.38	289	44.49	1130	45.12	1146	17.13	435	17.76	451	3534	1603	2553	1158
14	350	12.52	318	49.49	1257	50.24	1276	18.7	475	19.45	494	5397	2448	3940	1787
16	400	14.25	362	54.49	1384	55.39	1407	21.46	545	22.32	567	7937	3600	5944	2696
18	450	-	-	60.51	1537	61.38	1559	24.02	610	24.88	632	10758	4880	8069	3660
20	500	-	-	65.51	1664	66.38	1686	26.57	675	27.44	697	14109	6400	10679	4844
24	600	-	-	76.5	1943	77.64	1972	31.89	810	32.99	838	17284	7840	-	-

Note: Long pattern is a Naway standard dimension

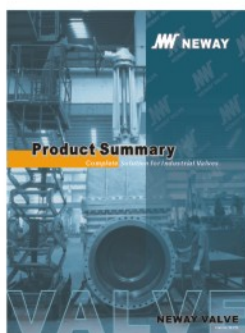
Flange End - ASME Class 2500

Size		Dimensions										Weight			
		D		L											
NPS	DN	In	mm	Long pattern(RF/BW)		Long pattern(RTJ)		Short pattern(RF/BW)		Short pattern(RTJ)		Long pattern		Short pattern	
				In	mm	In	mm	In	mm	In	mm	lbs	kg	lbs	kg
2	50	1.73	44	17.76	451	17.87	454	-	-	-	-	258	116	-	-
3	80	2.52	64	22.76	578	22.99	584	-	-	-	-	582	264	-	-
4	100	3.5	89	26.5	673	26.89	683	11.61	295	11.97	304	1146	520	939	426
6	150	5.24	133	35.98	914	36.5	927	15.35	390	15.87	403	2469	1120	1975	896
8	200	7.13	181	40.24	1022	40.87	1036	16.93	430	17.56	446	4268	1936	3329	1510
10	250	8.86	225	50	1270	50.87	1292	21.26	540	22.13	562	6614	3000	-	-
12	300	10.51	267	55.96	1422	56.69	1445	23.43	595	24.29	617	9700	4400	-	-

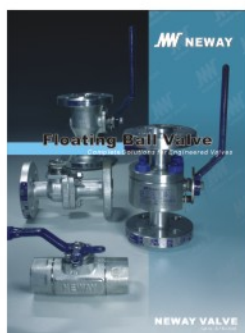
Note: Long pattern is a Naway standard dimension

Product Warranty

Seller will replace without charge or refund the purchase price of products provided by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement. The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.



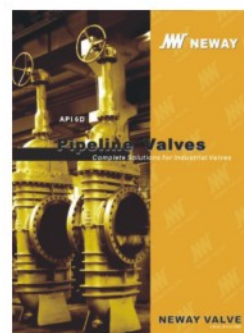
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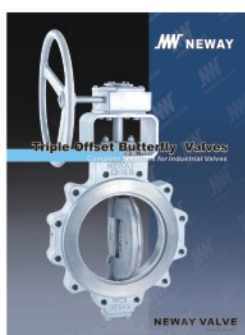
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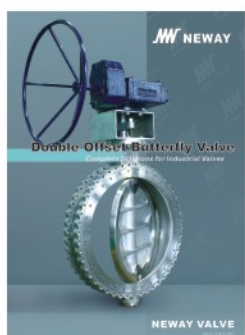
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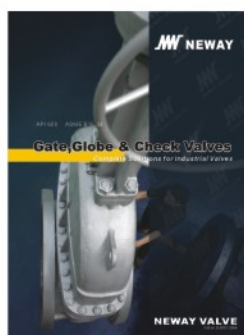
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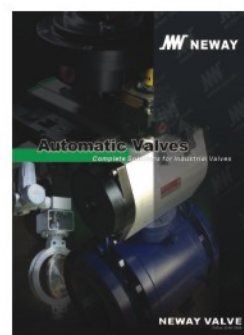
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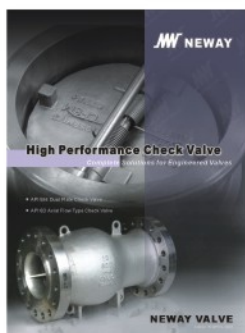
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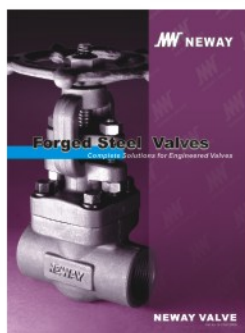
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Cat.no.:E-AV



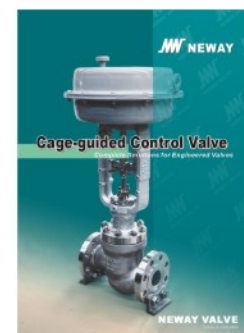
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Cat.no.:E-FSV



Cat.no.:E-CSS



Cat.no.:E-CSC

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