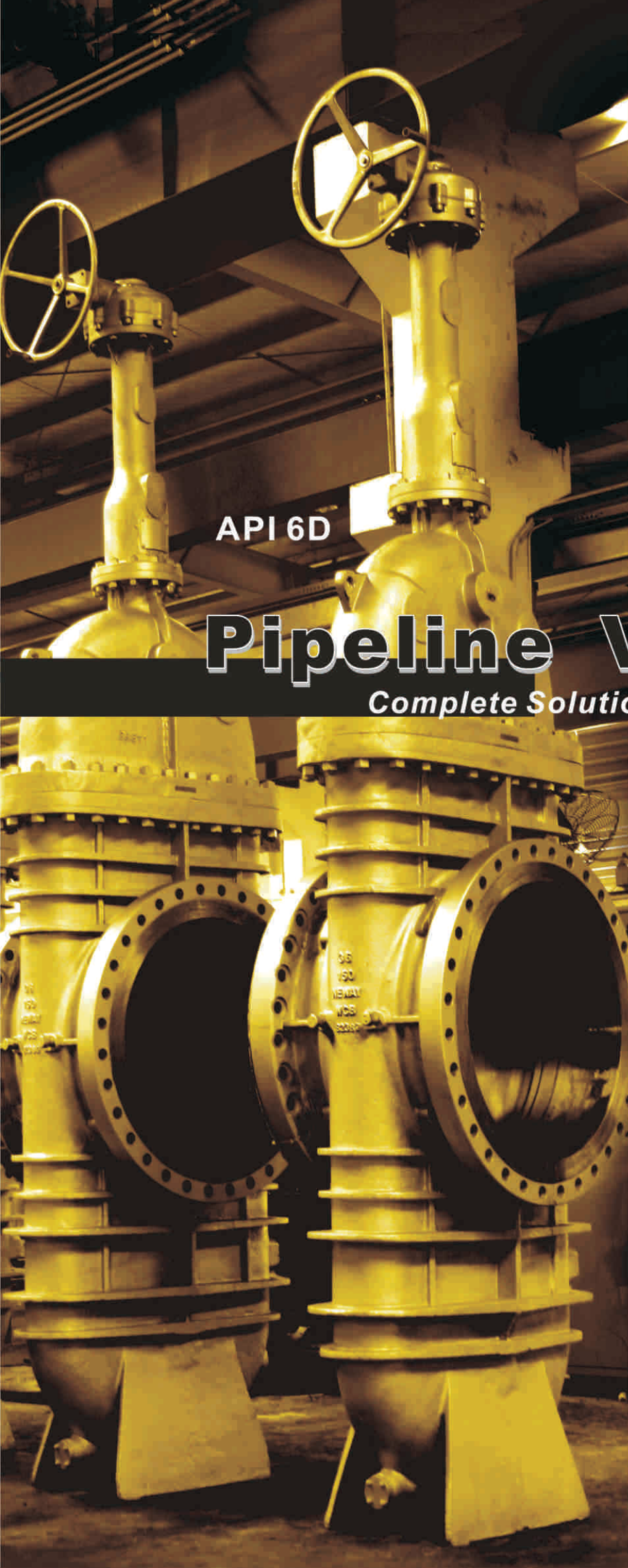




NW NEWAY

API 6D

Pipeline Valves

Complete Solutions for Engineered Valves

NEWAY VALVE

Cat.no.:E-PLV-2012



Cat.no.:E-PS



Cat.no.:E-FBV



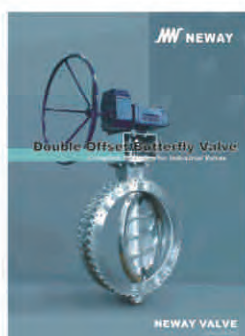
Cat.no.:E-GGC



Cat.no.:E-PLV



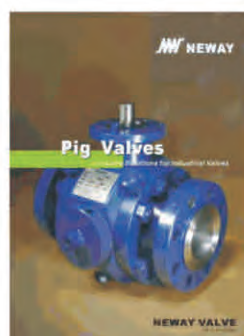
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Cat.no.:E-DOV



Cat.no.:E-AV



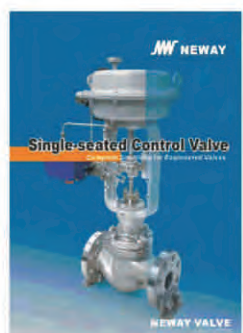
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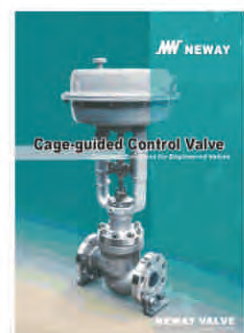
Cat.no.:E-HPCV



Cat.no.:E-FSV



Cat.no.:E-CSS



Cat.no.:E-CSC

NW NEWAY
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Distributed by:

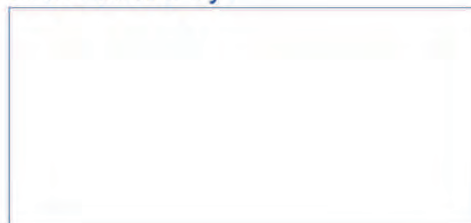


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Complete Solutions for Industrial Valves

As one of the leading valve manufacturers in the world, NEWAY specializes in the development of innovative designs through intensive R&D programs and a commitment to excellence, engineering, and manufacturing valve solutions for all industries.

NEWAY's main product lines include Gate, Globe, Check, Butterfly and Ball valves with quality innovative designs, recognized by many global users and EPC's. These products have been installed throughout the world in Gas, Oil, Refining, Chemical, Marine, Power Generation, and Pipeline Transmission industrial applications.

NEWAY'S Facilities

NEWAY's facilities are among of the most advanced in valve manufacturing in the world today. NEWAY has developed and implemented a group management manufacturing system, called ERP (Enterprise Resource Planning), based on multi-plant manufacturing. Valves are manufactured in six specialized production facilities that are linked by an intranet system of over 600 computers, connecting engineering to the CNC machining centers and the bar-coded warehouse system. In-house testing capabilities include fire-safe, cryogenic, high pressure gas and fugitive emission testing.

Quality Assurance

NEWAY's quality assurance is dedicated to the pursuit of zero defect valves to customers. We perform active Six Sigma quality management to continually enhance process control management based on advanced data statistical analysis. NEWAY's industrial certificates include ISO 9001, CE/PED, TA-Luft, API 6A, API 6D, ABS, and Fire Safe approvals.

Quality Commitment

ISO 9001

API 6D



API 6A



TA Luft



API 591



Fire Safe Test

Nuey 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, designed, manufactured, inspected and tested in accordance with our customers specifications, while complying with all international standards.

CE/PED

ABS

Current industrial standards do not always take into consideration the likelihood and consequences of possible deterioration, related to specific service fluids or the external environments in which they operate; Therefore, we request that our customers communicate with our engineering department. Our valve optimization program continuously strives to provide valves that withstand deterioration in service, and ensure safety over the valves expected lifetime.

Selected views of NEWAY pipeline valve





2



3



6



7

1 Gas Over Oil Actuated Ball Valve

2 Motor Actuated Ball Valve

3 Automatic Submerged Arc Welding Machine with Double Arms

4 Pneumatic Actuated Ball Valve

5 40" 600LB Ball Valve

6 36" 900LB Full Welded Ball Valve

7 3D Coordinating Measure Instrument

Selected views of NEWAY pipeline valve



- ① Full Open Check Valve
- ② Pressure Test
- ③ Through Conduit Gate Valve
- ④ Valve Components
- ⑤ Body Machining
- ⑥ Valve Assembling



How to Order

Figure Number Example:

8	BS	6	R	-	G	,	A105N	/	NO.72333
①	②	③	④		⑤		⑥		7A/7B

Neway valve figure number are designed to cover essential feature. When ordering, please show figure number to avoid misunderstanding of your requirement. However a detailed description must accompany any special orders.

Following descriptions provide a basic guideline in valve specification:

① Valve Size

② Valve Type

Symbol	type
GT	Through Conduit Gate Valve
BS	3-pcs Side Entry Trunnion Mounted Ball Valve
BW	Full Welding Trunnion Mounted Ball Valve
SF	Full Opening Swing Check Valve

④ End Connection

Symbol	End
R	Raised face flanged end
J	RTJ flanged end
B	Butt-welding end

③ ANSI Class

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

⑤ Operation and Special Code (Gate & Ball Valve)

Symbol	Description	Symbol	Description
Null	Handwheel / Lever	EB	Extended Bonnet
G	Gear Operator	ES	Extended Spindle
M	Electric Actuator	I	Indicator
P	Pneumatic Actuator	NC	NACE MR0175 Requirement
HA	Hydraulic Actuator	GL	Seat and Stem Injection

⑥ Body Material

Material	WCB	LCB	WC6	WC9	C5	C12A
ASTM Ref.	A216 Gr. WCB	A352 Gr. LCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C5	A217 Gr. C12A
Material	A105N	LF2	F11	F22	F5	F91
ASTM Ref.	A105N	A350 Gr. LF2	A182 Gr. F11	A182 Gr. F22	A182 Gr. F5	A182 Gr. F91
Material	CF8	CF8M	CF3	CF3M	CD3MN	
ASTM Ref.	A351 Gr. CF8	A351 Gr. CF8M	A351 Gr. CF3	A351 Gr. CF3M	A890 4A CD3MN	
Material	F304	F316	F304L	F316L	F51	
ASTM Ref.	A182 Gr. F304	A182 Gr. F316	A182 Gr. F304L	A182 Gr. F316L	A182 Gr. F51	

7A Trim Code (Gate & Ball Valve)

Trim code of gate and ball valve consist of 5 numbers.

Seat insert		O-Ring	
Code 1	Material	Code 2	Material
1	25% Glass Fiber + PTFE	1	NBR
2	Nylon 1010	2	VITON A
3	PEEK	3	VITON AED
4	Polyphenylene	4	VITON B
5	DEVLON 5	5	HSN
6	KEL-F	6	HNBR
7	NYLON 12	7	PTFE COATED VITON
8	PCTFE	8	VITON GLT
9	MOLON	9	BUNA-N
A	PVDF	A	ELAST-O-LION 101

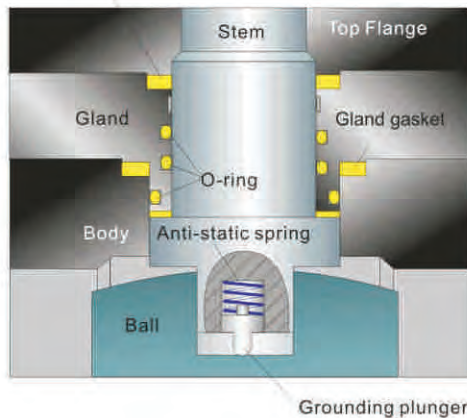
Stem		Ball		Seat	
Code 3	Material	Code 4	Material	Code 5	Material
1	1Cr13	1	1Cr13	1	1Cr13
2	F304	2	F304	2	F304
3	A105/ENP	3	A105/ENP	3	A105/ENP
4	17-4PH	4	17-4PH	4	17-4PH
5	42CrMo/ENP	5	42CrMo/ENP	5	42CrMo/ENP
6	F316	6	F316	6	F316
7	F304L	7	F304L	7	F304L
8	F316L	8	F316L	8	F316L
9	LF2/ENP	9	LF2/ENP	9	LF2/ENP
A	F51	A	F51	A	F51

7B Trim Code (Check Valve)

Each symbol below is one trim code of check valve.

Symbol	API600	Trim Number	Disc Surface or O-ring	Seat Surface
			Material	
1		1	13%Cr	13%Cr
2		2	18%Cr-8Ni	18%Cr-8Ni
5		5	Stellite	Stellite
8		8	13%Cr	Stellite
9		9	MONEL	MONEL
10		10	18%Cr-8Ni-Mo	18%Cr-8Ni-Mo
12		12	18%Cr-8Ni-Mo	Stellite
13		13	Alloy20 19%Cr-29%Ni	Alloy20 19%Cr,29%Ni
102			VITON	13%Cr
125			VITON	18%Cr-8Ni-Mo
126			NBR	13%Cr
145			HSN	18%Cr-8Ni-Mo

Stem fire safe packing



Anti Blow-out Stem

The stem is made separately from the ball; The lower end of the stem is designed with an integral collar to be blowout-proof.

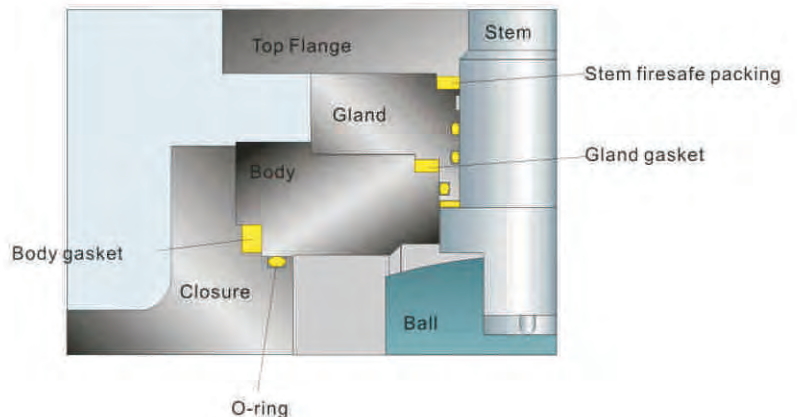
Anti-static Device

Antistatic device is a standard feature of NEWAY ball valve. A spring-loaded pin assures the electrical continuity, between ball, stem and body, so as to avoid sparks during turning of the stem to open and close the valve, which could be dangerous in case of hazardous area installation.

Super Fire safe design

External leakage prevention

Leakage from the valve stem area is prevented by double sealing with 2 O-rings and gland gasket. Leakage through the valve body joint is also blocked by double sealing with O-ring and body gasket. After a fire has deteriorated O-rings, gland gasket, body gasket and stem firesafe packing are the measure that prevents external fluid leakage.

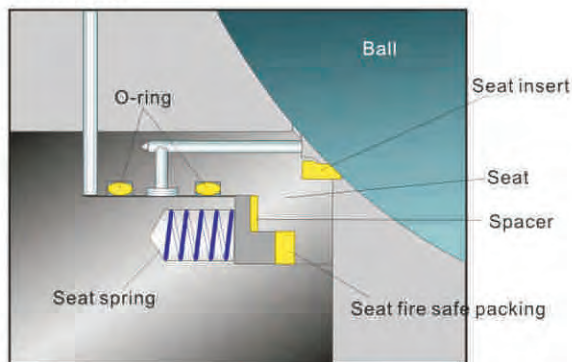


Internal leakage prevention

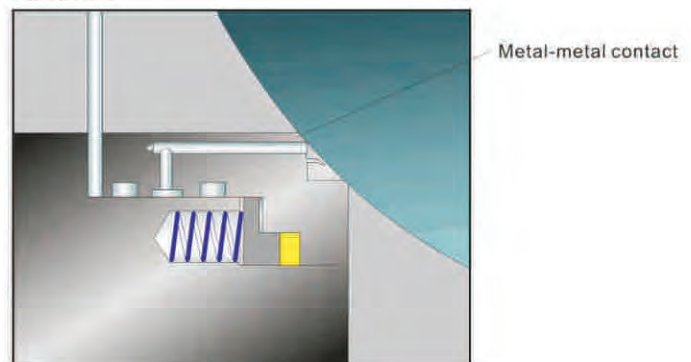
When non-metal materials such as O-ring, seat insert and spacer are decomposed or deteriorated by fire, the edge of the metal seat preloaded by the seat spring comes into contact with the

Ball to shut off the line fluid to minimize internal leakage through the valve bore. Also the fire safe flexible graphite seat packing will be compressed by the seat spring to prevent fluid leakage between the valve body and the seat.

Before Fire

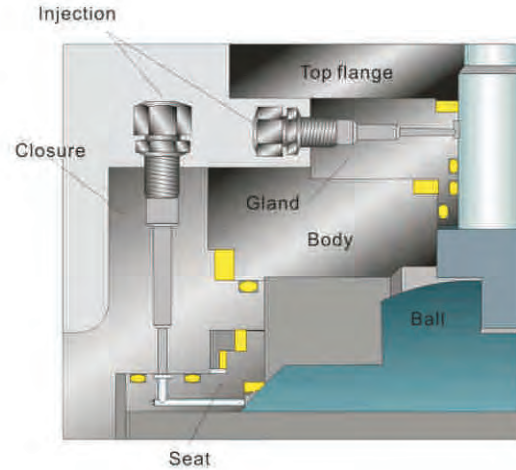


After Fire



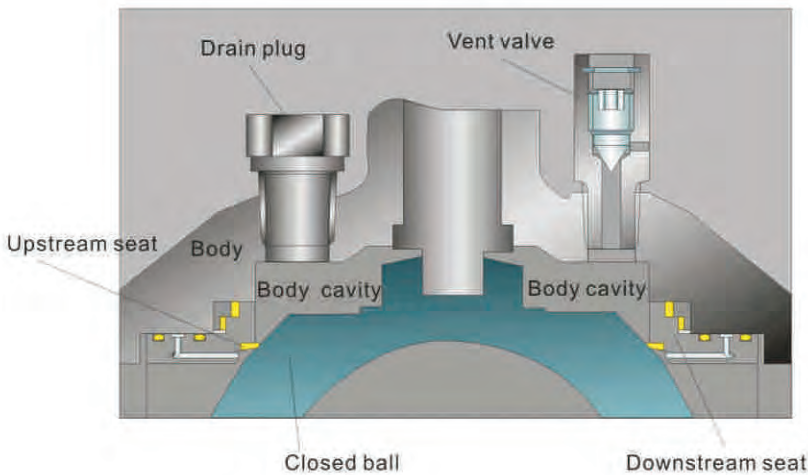
Emergency sealant injection system

For 6 inch and larger NEWAY Trunnion mounted ball valves will be installed with a sealant injection fittings on both stem and seats. When the sealing materials (seat sealing or stem o-ring) are damaged or decomposed by fire or other accidental causes, leakage from the seat and stem can be prevented by injection of sealant into these fittings. Fitting also internally installed a second check valve to provides backup sealing.

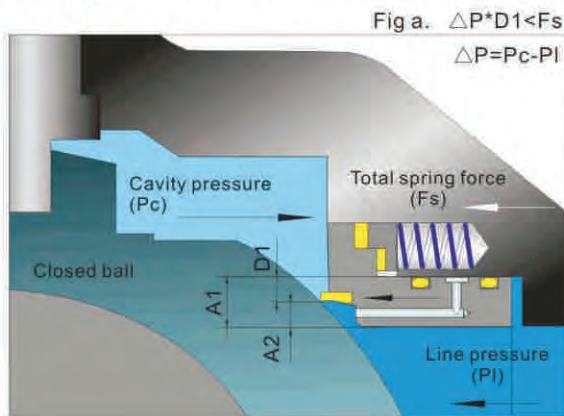


Double block and bleed

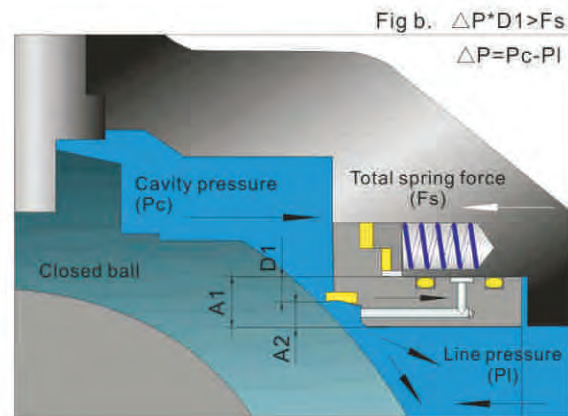
Each ball seats shut off the line fluid independently on the upstream and downstream side, allowing double block operation. When the pressure is simultaneously applied to both sides of the ball in closed position, the valve bore and the body cavity will be isolated from each other, and the residue within the body cavity shcan be released through the drain plug.



Cavity Pressure Relief



When cavity pressure (P_c) is lower than seat spring and line pressure (P_l), i.e. $\Delta P \cdot D1 < F_s$, then contact between ball and seat ring is assure to provide a tight seal.



When cavity pressure is higher than seat spring and line pressure, i.e. $\Delta P \cdot D1 > F_s$, the self relieving action allows that valve seat will move slightly away from the ball surface, therefore any over pressure acting in the body cavity is discharged into the line to restore the balance between the body cavity and line (either upstream or downstream).

Introduction

Through conduit valves are widely used for oil and gas pipeline service. This type of valve has such function that, when fully opened, media passage capability superior to valves in use for general secondary process line, it can also be capable for pig ball Cleaning service.

Neway through conduit gate valves are available in Slab Gate and Expanding Gate design and both are fully comply with API 6D standard.

Slab Gate Valve

Slab gate valve is simple in design but efficient in performance. This design utilizes two spring loaded floating seats which are pressure energized, moving the upstream seat in contact with the gate that brings about a tight and complete seal with both the upstream and downstream.

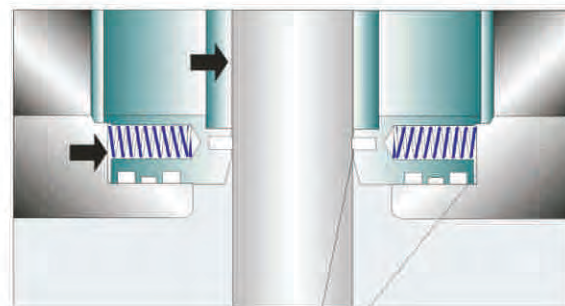
Seat sealing

The seat rings are designed with spring loaded floating type and double O-rings, that can maintains a perfect sealing with slab gate both in high or low differential pressure. PTFE insert are utilized to assure the primary sealing and when PTFE seats were destroyed, the metal to metal contact between slab and seats can be function as secondary sealing.

Double block & Bleed

When valve is in closed position and there is an equal or no pressure throughout the valve, 2 spring-loaded floating seats can shut off the line fluid independently on the upstream and downstream side, allowing double block operation.(Fig.1)

When line pressure is applied to the valve, it will acts on the gate, forcing it float against the downstream seat, and form a tight seal on downstream seat. Also an upstream seal can be provided by the force of line pressure acting against the upstream seat to the gate.(Fig.2)



Metal-to-Metal contact

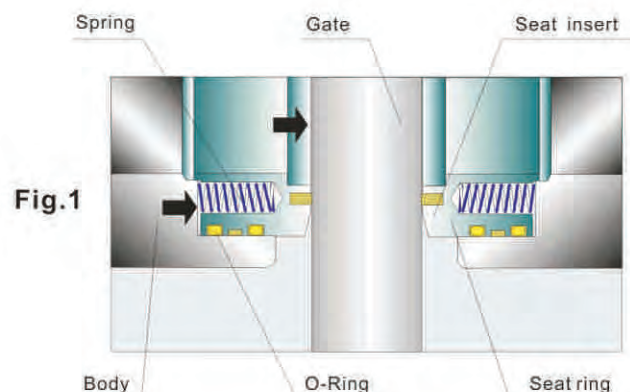


Fig.1

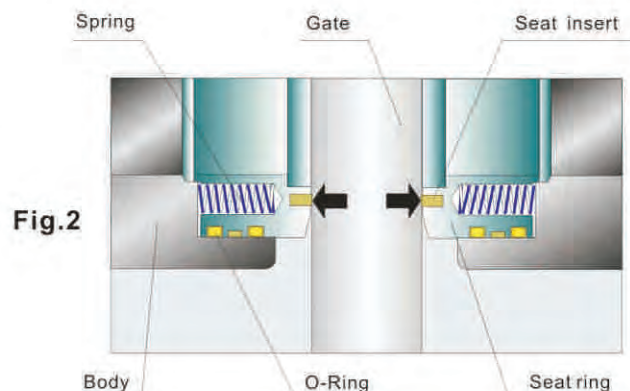
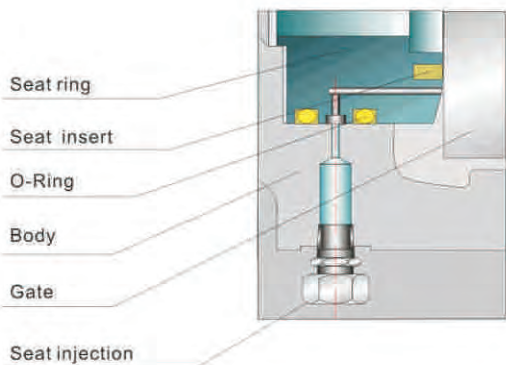
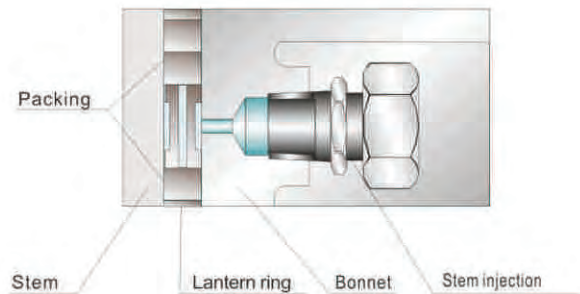
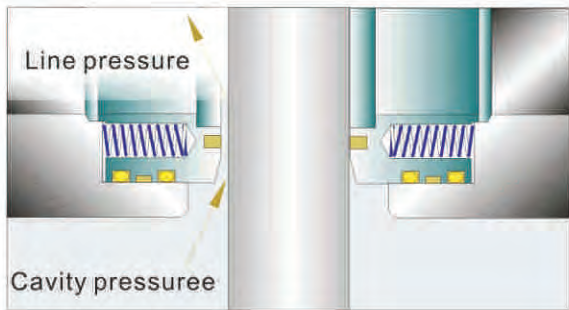


Fig.2

Self cavity relief

Since slab gate design is double block valve, so when valve is in closed position valve cavity pressure may increase due to thermal expansion. If cavity pressure exceeds line pressure, the up-steam seat is forced slightly away from the gate surface and the excess pressure in the body is discharged into the line to restore the pressure balance between the body cavity and the line.



Expanding Gate Valve

Expanding gate design is versatile in that it provides a mechanical seal between the seats and the gate ensuring valve integrity at both high and low line pressure. The expanding gate valve does not rely on line pressure to seal and is recommended for applications when a tight mechanical seal is required.

Emergency Sealant Injection System

For 6" and larger valve will be installed with a sealant injection fitting on both stem and seats (for expanding gate valve only on stem). So when sealing materials (PTFE seat insert or stem o-ring) are damaged or decomposed by fire or other accidental causes, leakage from the seat and stem can be prevented by injection of sealant into these fittings. Fitting also internally

Fig.1



Fig.2

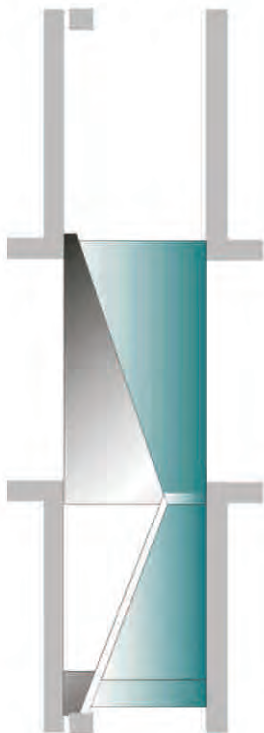


Fig.3

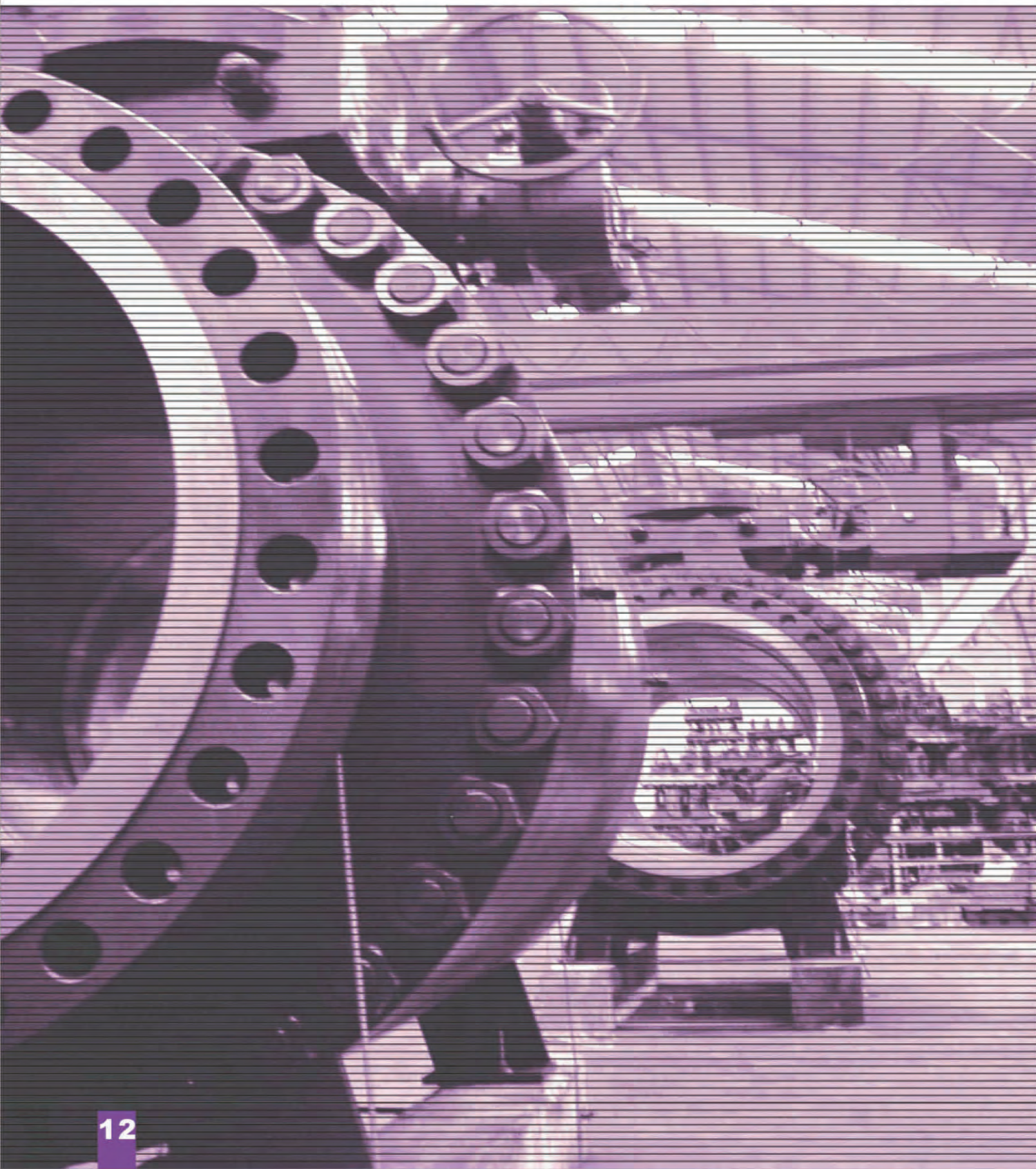


The gate and segment assembly collapses and moves well together along all four surfaces in the course of travel. The distance between the two faces of the gate is less than that between seats, thus the gate and segment can travel freely without experiencing sticking or wedging. (Fig.1)

The two top angles make contact in the closed position. If the segment halted by a stop moves further downward, the continuously descending gate pushes the solid faces of the against the seats. (Fig.2)

The two bottom angles make contact in the open position. If the segment halted by a stop moves further upward, the gate and segment assembly is enlarged to seal off against the seats and cut the flow from the valve body. (Fig.3)

Series BS Trunnion Mounted Ball Valve



NEWAY series BS ball valves are trunnion mounted supported and available in size 2 to 48 , ANSI class rating 150 to 1500 and temperature ratings of - 46°C to 200°C . All meets the fire safe requirement of BS 6755 and API 6FA.

Fully forged steel body and closure eliminates the inevitable defects of casting and assures the tough structure of the valve at full rated working pressure. It also has advantage of quick delivery time, thus more popular in modern oil and gas industry.

All BS series ball valves are featured with trunnion mounted ball and independent floating spring loaded seats which provides bubble-tight shut off and low operating torques even at low different pressure. Double sealing O-rings or a combination of an O-ring and gasket in stem making this series of ball valve suitable for both above ground or under-ground service.

Double Sealing O-rings
Prevent leakage from stem area

O-ring & Gasket Combination
Prevent leakage from body joint area

Emergency Sealant
Injection Fitting prevent
leakage from the seat

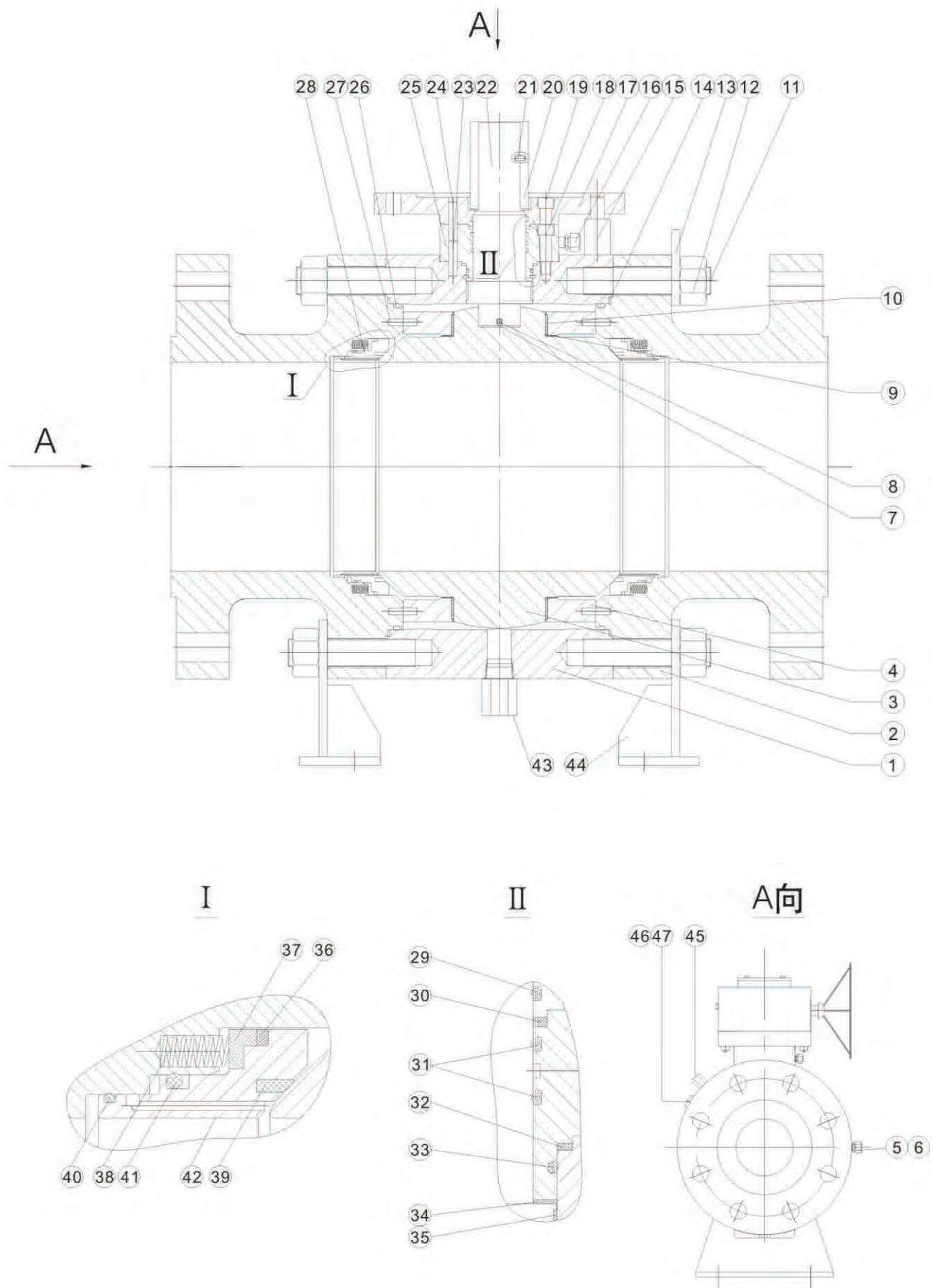
Metal-to-Metal Sealing
When non-metal sealing is deteriorated
by fire, seat floats to shut off the line fluid

Emergency Sealant Injection Fitting
prevent leakage from the stem

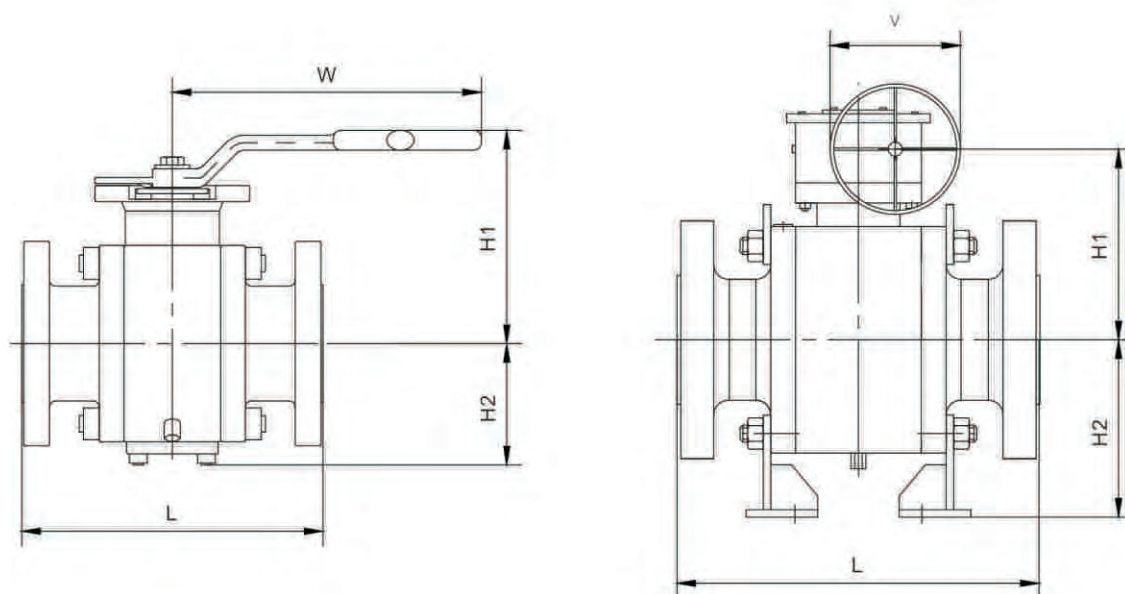
Blow-out Proof Stem
Internally inserted and
functioned as the backseat
for assured stem sealing at
all pressures

Floating Spring Loaded Seats
to assure sealing
even at low pressures

This is a typical NEWAY series BS trunnion mounted ball valve illustrated cross-section drawing which is only for demonstrating of basic design features. The actual product design may be slightly different from this sample drawing due to its size and pressure class.

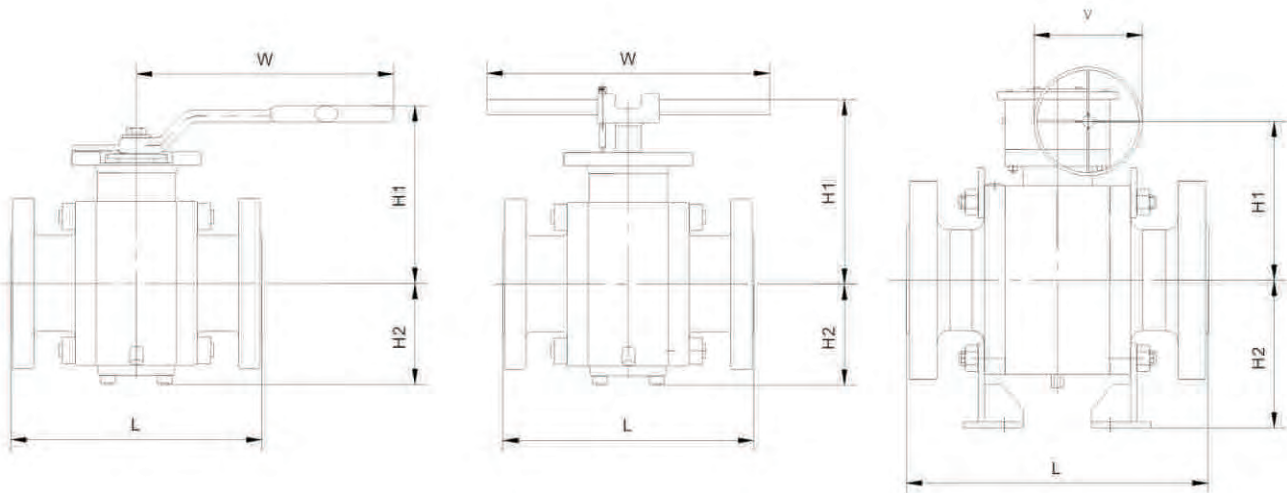


No.	Part	Standard	Stainless Steel	Sour Service	Low Temperature Service
1	BODY	ASTMA105N	ASTMA182 F304	ASTMA105N	ASTMA350 LF2
2	CLOSURE	ASTMA105N	ASTMA182 F304	ASTMA105N	ASTMA350 LF2
3	BALL	ASTMA105N/ENP	ASTMA182 F304	ASTMA105N/ENP	ASTMA350 LF2/ENP
4	TRUNNION SUPPORT	ASTMA588B/ENP	ASTMA182 CF3	ASTMA588B/ENP	ASTMA352 LCB/ENP
5	INJECTION	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304
6	CHECK VALVE	ASTMA182 F316L	ASTMA182 F316	ASTMA182 F316L	ASTMA182 F316
7	ANTI-STATIC DEVICE	ASTMA276 316	ASTMA276 316	ASTMA276 316	ASTMA276 316
8	SPRING	ASTMA276 316	ASTMA276 316	ASTMA276 316	ASTMA276 316
9	THRUST WASHER	RPTFE	RPTFE	RPTFE	RPTFE
10	BEARING	316+PTFE	316+PTFE	316+PTFE	316+PTFE
11	STUD	ASTMA193 B7	ASTMA193 B8	ASTMA193 B7M	ASTMA320 L7M
12	NUT	ASTMA194 2H	ASTMA194 8	ASTMA194 2HM	ASTMA194 7M
13	LIFTING LUGS	ASTMA283.GRC	ASTMA283.GRC	ASTMA283.GRC	ASTMA283.GRC
14	GASKET	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE
15	PIN	ASTMA350 LF2	ASTMA276 304	ASTMA350 LF2	ASTMA350 LF2
16	INJECTION	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304
17	TOP FLANGE	ASTMA105N	ASTMA182 F304	ASTMA105N	ASTMA350 LF2
18	SCREW	ASTMA193 B7	ASTMA276 304	ASTMA193 B7	ASTMA320 L7M
19	SCREW	ASTMA193 B7	ASTMA276 304	ASTMA193 B7	ASTMA320 L7M
20	KEY	AISI 1045	ASTMA182 F6a	AISI 1045	ASTMA182 F6a
21	PIN	ASTMA276 304	ASTMA276 304	ASTMA276 304	ASTMA276 304
22	STEM	ASTMA105N/ENP	ASTMA182 F304	ASTMA105N/ENP	ASTMA350 LF2/ENP
23	PIN	AISI 1035	ASTMA276 304	AISI 1035	AISI 1035
24	PIN	AISI 1035	ASTMA276 304	AISI 1035	AISI 1035
25	COVER	ASTMA105N	ASTMA182 F304	ASTMA105N	ASTMA350 LF2
26	O RING	HNBR	HNBR	HNBR	HNBR
27	PIN	ASTMA276 304	ASTMA276 304	ASTMA276 304	ASTMA276 304
28	SEAT ASSEMBLY	44&52	44&52	44&52	44&52
29	O RING	NBR	NBR	NBR	NBR
30	FIRE SAFE SEAL	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE
31	O RING	HNBR	HNBR	HNBR	HNBR
32	GASKET	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE
33	O RING	HNBR	HNBR	HNBR	HNBR
34	THRUST WASHER	RPTFE	RPTFE	RPTFE	RPTFE
35	BEARING	316+PTFE	316+PTFE	316+PTFE	316+PTFE
36	FIRE SAFE SEAL	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE	316+GRAPHITE
37	SPACER	ASTMA105N/ENP	ASTMA182 F304	ASTMA105N/ENP	ASTMA350 LF2/ENP
38	SPRING	INCONEL X-750	INCONEL X-750	INCONEL X-750	INCONEL X-750
39	SEAT INSERT	NYLON	NYLON	NYLON	NYLON
40	O RING	HNBR	HNBR	HNBR	HNBR
41	O RING	HNBR	HNBR	HNBR	HNBR
42	SEAT RETAINER	ASTMA105N/ENP	ASTMA182 F304	ASTMA105N/ENP	ASTMA350 LF2/ENP
43	PLUG	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304
44	SUPPORT LEGS	ASTMA283.GRC	ASTMA283.GRC	ASTMA283.GRC	ASTMA283.GRC
45	VENT VALVE	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304	ASTMA182 F304
46	NAME PLATE	ASTMA276 304	ASTMA276 304	ASTMA276 304	ASTMA276 304
47	RIVET	ASTMA276 304	ASTMA276 304	ASTMA276 304	ASTMA276 304



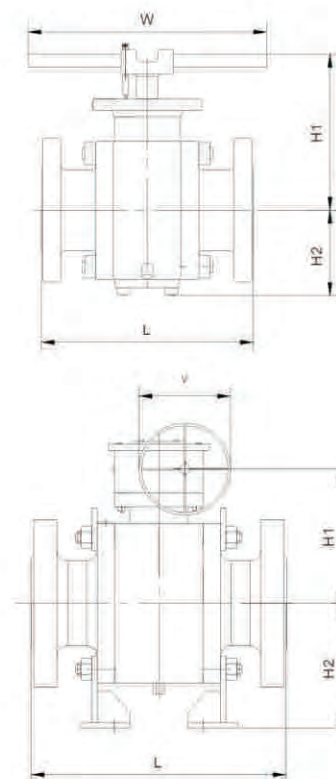
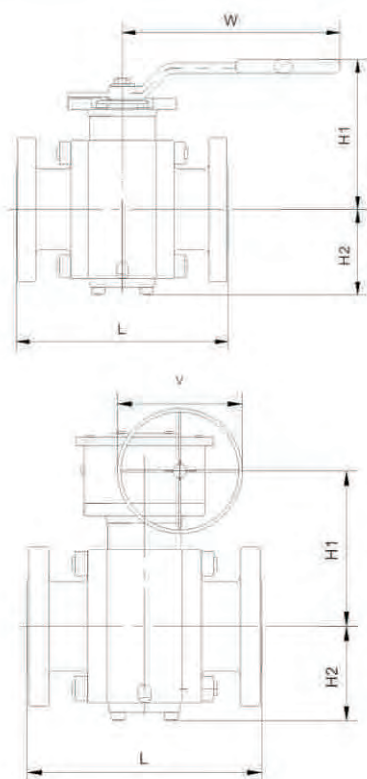
Class 150LB

Size in		D		L				H1		H2		W		V		Weight kg	
				RF		BW											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.93	49	7.01	178	8.50	216	6.78	172.1	3.52	89.3	12.99	330			41.89	19
3	80	2.91	74	7.99	203	11.14	283	7.91	200.8	4.20	106.8	15.75	400			57.32	26
4	100	3.94	100	9.02	229	12.01	305	8.75	222.3	4.98	126.5	15.75	400			103.62	47
6	150	5.91	150	15.51	394	17.99	457	10.85	275.5	10.04	255.0			15.75	400	352.74	160
8	200	7.91	201	17.99	457	20.51	521	12.32	313.0	11.46	291.0			15.75	400	573.20	260
10	250	9.92	252	20.98	533	22.01	559	14.25	362.0	13.11	333.0			23.62	600	983.26	446
12	300	11.93	303	24.02	610	25.00	635	15.73	399.5	14.57	370.0			23.62	600	1532.21	695
14	350	13.15	334	27.01	686	30.00	762	20.12	511.0	15.53	394.5			23.62	600	1975.34	896
16	400	15.16	385	30.00	762	32.99	838	21.56	547.5	16.93	430.0			23.62	600	2850.57	1293
18	450	17.17	436	34.02	864	35.98	914	23.05	585.5	18.41	467.5			23.62	600	3333.39	1512
20	500	19.17	487	35.98	914	39.02	991	24.57	624.0	19.90	505.5			23.62	600	3935.25	1785
22	550	21.18	538	39.02	991	42.99	1092	27.80	706.0	21.78	553.3			23.62	600	5138.97	2331
24	600	23.19	589	42.01	1067	45.00	1143	29.96	761.0	23.26	590.8			27.56	700	6393.40	2900
26	650	24.92	633	45.00	1143	49.02	1245	31.40	797.5	24.68	626.8			27.56	700	7407.52	3360
28	700	26.93	684	49.02	1245	52.99	1346	28.76	730.5	26.32	668.5			29.92	760	9363.57	4247
30	750	28.94	735	50.98	1295	55.00	1397	30.26	768.5	27.80	706.0			29.92	760	11157.58	5061
32	800	30.67	779	54.02	1372	60.00	1524	31.56	801.5	29.07	738.5			29.92	760	12708.53	5765
34	850	32.68	830	57.99	1473	64.02	1626	33.03	839.0	30.53	775.5			29.92	760	15518.76	7039
36	900	34.41	874	60.00	1524	67.99	1727	35.30	896.5	31.85	809.0			29.92	760	17627.59	7996
40	1000	38.43	976	67.99	1727	70.08	1780	44.98	1142.5	35.57	903.5			29.92	760	25525.86	11578
42	1050	40.16	1020	72.01	1829	72.01	1829	46.30	1176.0	36.85	936.0			29.92	760	28032.85	12716
48	1200	45.91	1166	78.54	1995	78.54	1995	50.57	1284.5	41.24	1047.5			29.92	760	42500.66	19278
54	1350	51.65	1312					54.19	1376.5	42.87	1089.0			35.43	900	75464.14	34230
56	1400	53.54	1360	97.99	2489	97.99	2489	57.74	1466.5	44.81	1138.3			39.37	1000	84492.06	38325
60	1500	57.40	1458					61.36	1558.5	47.65	1210.3			39.37	1000	90510.67	41055



Class 300LB

Size in		D		L				H1		H2		W		V		Weight kg	
				RF		BW											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.93	49	8.50	216	8.50	216	6.78	172.1	3.59	91.3	12.99	330			66.14	30
3	80	2.91	74	11.14	283	11.14	283	7.91	200.8	3.38	85.8	15.75	400			105.82	48
4	100	3.94	100	12.01	305	12.01	305	11.10	282.0	5.59	142	32.09	815			154.32	70
6	150	5.91	150	15.87	403	17.99	457	10.85	275.5	10.04	255.0			15.75	400	418.88	190
8	200	7.91	201	19.76	502	20.51	521	12.28	312.0	11.61	295.0			19.69	500	694.46	315
10	250	9.92	252	22.36	568	22.01	559	14.29	363.0	13.29	337.5			23.62	600	1172.86	532
12	300	11.93	303	25.51	648	25.00	635	16.08	408.5	14.93	379.3			23.62	600	1814.40	823
14	350	13.15	334	30.00	762	30.00	762	20.12	511.0	15.71	399.0			23.62	600	2204.62	1000
16	400	15.16	385	32.99	838	32.99	838	21.93	557.0	17.29	439.3			23.62	600	3064.42	1390
18	450	17.17	436	35.98	914	35.98	914	24.78	629.5	18.96	481.5			23.62	600	4159.02	1887
20	500	19.17	487	39.02	991	39.02	991	26.99	685.5	20.61	523.5			27.56	700	4583.40	2079
22	550	21.18	538	42.99	1092	42.99	1092	28.84	732.5	22.13	562.0			27.56	700	5703.79	2587
24	600	23.19	589	45.00	1143	45.00	1143	26.02	661.0	23.78	604.0			29.92	760	7008.49	3179
26	650	24.92	633	49.02	1245	49.02	1245	27.72	704.0	25.35	644.0			29.92	760	9052.83	4106
28	700	26.93	684	52.99	1346	52.99	1346	30.45	773.5	27.05	687.0			29.92	760	11094.75	5033
30	750	28.94	735	55.00	1397	55.00	1397	31.95	811.5	28.52	724.5			29.92	760	13556.21	6149
32	800	30.67	779	60.00	1524	60.00	1524	33.31	846.0	29.98	761.5			29.92	760	15132.51	6864
34	850	32.68	830	64.02	1626	64.02	1626	34.78	883.5	31.46	799.0			29.92	760	17872.85	8107
36	900	34.41	874	67.99	1727	67.99	1727	42.81	1087.5	33.37	847.5			29.92	760	20455.57	9279
40	1000	38.43	976	75.98	1930	75.98	1930	45.93	1166.5	36.61	930.0			29.92	760	27160.92	12320
42	1050	40.16	1020	82.01	2083	82.01	2083	49.69	1262.0	37.89	962.5			31.50	800	31647.32	14355
48	1200	45.91	1166	85.43	2170	85.43	2170	55.43	1408.0	39.22	996.3			35.43	900	46076.56	20900
54	1350	51.65	1312					56.93	1446.0	42.87	1089.0			35.43	900	79057.67	35860
56	1400	53.54	1360	100.12	2543	100.12	2543	57.74	1466.5	44.81	1138.3			39.37	1000	88515.49	40150
60	1500	57.40	1458					62.54	1588.5	47.65	1210.3				1000	94820.71	43010

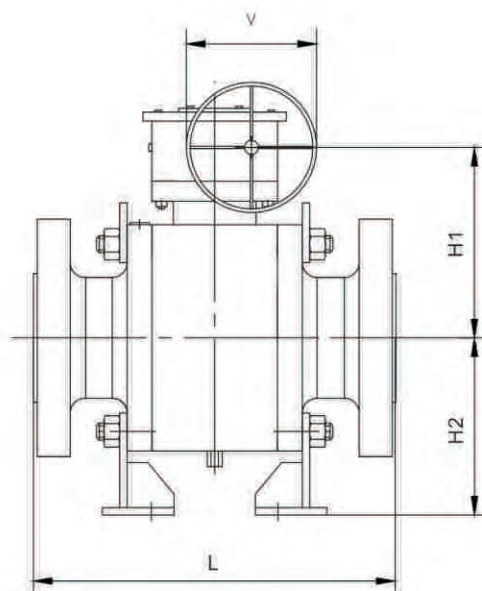
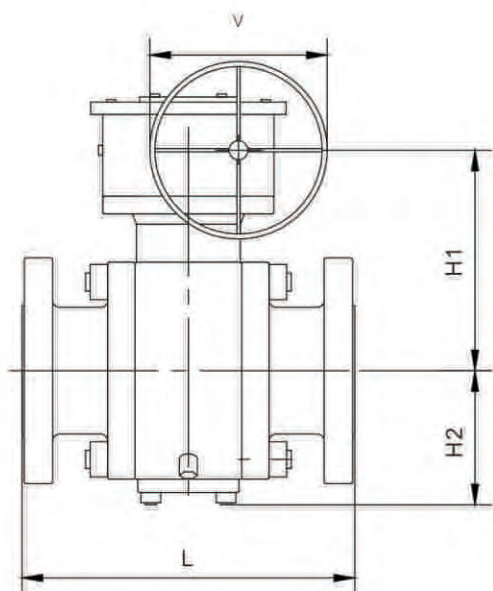


Class 400LB

Size in		D		L						H1		H2		W		V		Weight kg	
				RF		BW		RTJ											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.93	49	11.50	292	11.50	292	11.61	295	7.33	186.3	3.59	91.3	15.75	400			72.75	33
3	80	2.91	74	14.02	356	14.02	356	14.13	359	10.28	261.0	4.07	103.3	32.09	815			149.91	68
4	100	3.94	100	15.98	406	15.98	406	16.14	410	8.25	209.5	4.93	125.3			11.81	300	257.94	117
6	150	5.91	150	19.49	495	19.49	495	19.61	498	10.85	275.5	10.04	255.0			15.75	400	595.25	270
8	200	7.91	201	23.50	597	23.50	597	23.62	600	12.28	312.0	11.61	295.0			19.69	500	784.84	356
10	250	9.92	252	26.50	673	26.50	673	26.61	676	14.29	363.0	13.29	337.5			23.62	600	1245.61	565
12	300	11.93	303	30.00	762	30.00	762	30.12	765	19.49	495.0	15.12	384.0			23.62	600	2204.62	1000
14	350	13.15	334	32.52	826	32.52	826	32.64	829	20.51	521.0	16.08	408.5			23.62	600	2936.55	1332
16	400	15.16	385	35.51	902	35.51	902	35.63	905	23.27	591.0	17.64	448.0			23.62	600	4100.59	1860
18	450	17.17	436	38.50	978	38.50	978	38.62	981	25.26	641.5	19.29	490.0			23.62	600	4188.78	1900
20	500	19.17	487	41.50	1054	41.50	1054	41.73	1060	27.62	701.5	20.94	532.0			27.56	700	5407.93	2453
22	550	21.18	538	45.00	1143	45.00	1143	45.39	1153	25.10	637.5	22.83	580.0			29.92	760	7129.74	3234
24	600	23.19	589	48.50	1232	48.50	1232	48.86	1241	26.59	675.5	24.19	614.5			29.92	760	9603.32	4356
26	650	24.92	633	51.50	1308	51.50	1308	52.01	1321	29.63	752.5	26.22	666.0			29.92	760	10961.37	4972
28	700	26.93	684	55.00	1397	55.00	1397	55.51	1410	37.20	945.0	27.83	707.0			29.92	760	13216.70	5995
30	750	28.94	735	60.00	1524	60.00	1524	60.51	1537	38.68	982.5	29.31	744.5			29.92	760	15229.51	6908
32	800	30.67	779	65.00	1651	65.00	1651	65.63	1667	40.00	1016.0	30.79	782.0			29.92	760	17824.35	8085
34	850	32.68	830	70.00	1778	70.00	1778	70.63	1794	41.89	1064.0	32.58	827.5			29.92	760	19958.42	9053
36	900	34.41	874	74.02	1880	74.02	1880	74.61	1895	43.21	1097.5	33.90	861.0			29.92	760	24493.33	11110
40	1000	38.43	976	85.00	2159	85.00	2159			43.43	1103.0	33.73	856.8			35.43	900	32932.61	14938
42	1050	40.16	1020	85.63	2175	85.63	2175			47.15	1197.5	35.01	889.3			31.50	800	37370.51	16951
48	1200	45.91	1166	95.87	2435	95.87	2435			52.15	1324.5	39.22	996.3			31.50	800	53109.30	24090
54	1350	51.65	1312							57.22	1453.5	42.89	1089.5			39.37	1000	79057.67	35860
56	1400	53.54	1360	106.69	2710	106.69	2710			58.52	1486.5	44.81	1138.3			39.37	1000	109435.13	49639
60	1500	57.40	1458							62.54	1588.5	47.65	1210.3			39.37	1000	116403.94	52800

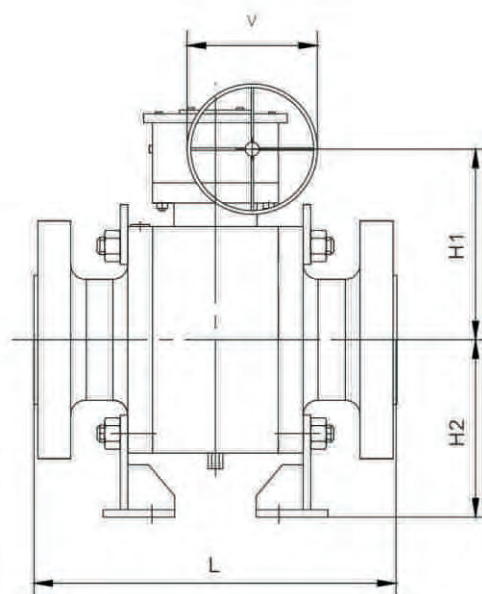
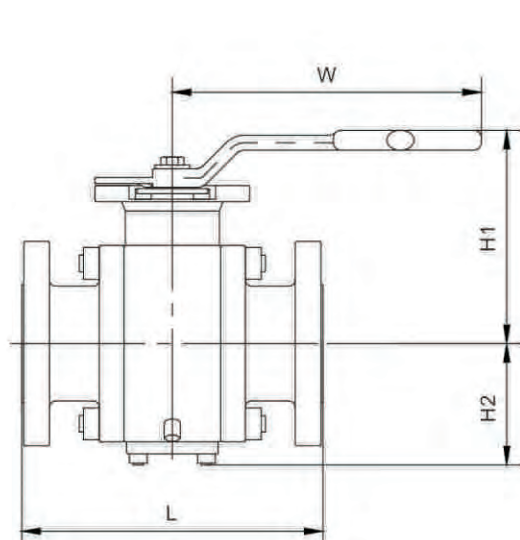
Dimensions

Series BS Trunnion Mounted Ball Valve



Class 600LB

Size in		D		L						H1		H2		W		V		Weight kg	
				RF		BW		RTJ											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.93	49	11.50	292	11.50	292	11.61	295	7.33	186.3	3.59	91.3	15.75	400			83.78	38
3	80	2.91	74	14.02	356	14.02	356	14.13	359	10.28	261.0	3.38	85.8	32.09	815			171.96	78
4	100	3.94	100	15.98	406	15.98	406	17.13	435	8.56	217.5	4.07	103.3			15.75	400	257.94	117
6	150	5.91	150	19.49	495	19.49	495	22.13	562	11.20	284.5	10.37	263.5			15.75	400	606.27	275
8	200	7.91	201	23.50	597	23.50	597	26.14	664	12.68	322.0	11.98	304.3			19.69	500	965.62	438
10	250	9.92	252	26.50	673	26.50	673	31.14	791	14.96	380.0	13.82	351.0			23.62	600	1631.42	740
12	300	11.93	303	30.00	762	30.00	762	33.11	841	20.00	508.0	15.45	392.5			23.62	600	2270.76	1030
14	350	13.15	334	32.52	826	32.52	826	35.12	892	22.32	567.0	16.57	421.0			23.62	600	2969.62	1347
16	400	15.16	385	35.51	902	35.51	902	39.13	994	24.13	613.0	18.23	463.0			23.62	600	4321.06	1960
18	450	17.17	436	38.50	978	38.50	978	43.11	1095	26.56	674.5	19.90	505.5			27.56	700	4817.09	2185
20	500	19.17	487	41.50	1054	41.50	1054	47.24	1200	23.78	604.0	21.59	548.5			29.92	760	7165.02	3250
22	550	21.18	538	45.00	1143	45.00	1143	51.38	1305	26.71	678.5	23.70	602.0			29.92	760	8172.53	3707
24	600	23.19	589	48.50	1232	48.50	1232	55.39	1407	28.25	717.5	25.24	641.0			29.92	760	9810.56	4450
26	650	24.92	633	51.50	1308	51.50	1308	57.52	1461	30.65	778.5	27.26	692.5			29.92	760	13568.11	6154
28	700	26.93	684	55.00	1397	55.00	1397	61.50	1562	38.11	968.0	28.72	729.5			29.92	760	14963.20	6787
30	750	28.94	735	60.00	1524	60.00	1524	65.51	1664	39.86	1012.5	30.53	775.5			29.92	760	16518.78	7493
32	800	30.67	779	65.00	1651	65.00	1651	70.63	1794	41.18	1046.0	31.81	808.0			35.43	900	19321.29	8764
34	850	32.68	830	70.00	1778	70.00	1778	76.61	1946	42.68	1084.0	33.27	845.0			35.43	900	20889.22	9475
36	900	34.41	874	74.02	1880	74.02	1880	82.64	2099	46.44	1179.5	34.94	887.5			31.50	800	26296.71	11928
40	1000	38.43	976	85.00	2159	85.00	2159			43.52	1105.5	33.83	859.3			35.43	900	36296.86	16464
42	1050	40.16	1020	85.63	2175	85.63	2175			47.24	1200.0	35.11	891.8			31.50	800	40519.15	18379
48	1200	45.91	1166	95.87	2435	95.87	2435			57.80	1468.0	39.32	998.8			31.50	800	59754.02	27104
54	1350	51.65	1312							58.78	1493.0	43.23	1098.0			39.37	1000	80495.09	36512
56	1400	53.54	1360	106.69	2710	106.69	2710			59.80	1519.0	44.91	1140.8			39.37	1000	111423.96	50541
60	1500	57.40	1458							62.64	1591.0	47.75	1212.8			39.37	1000	118520.37	53760

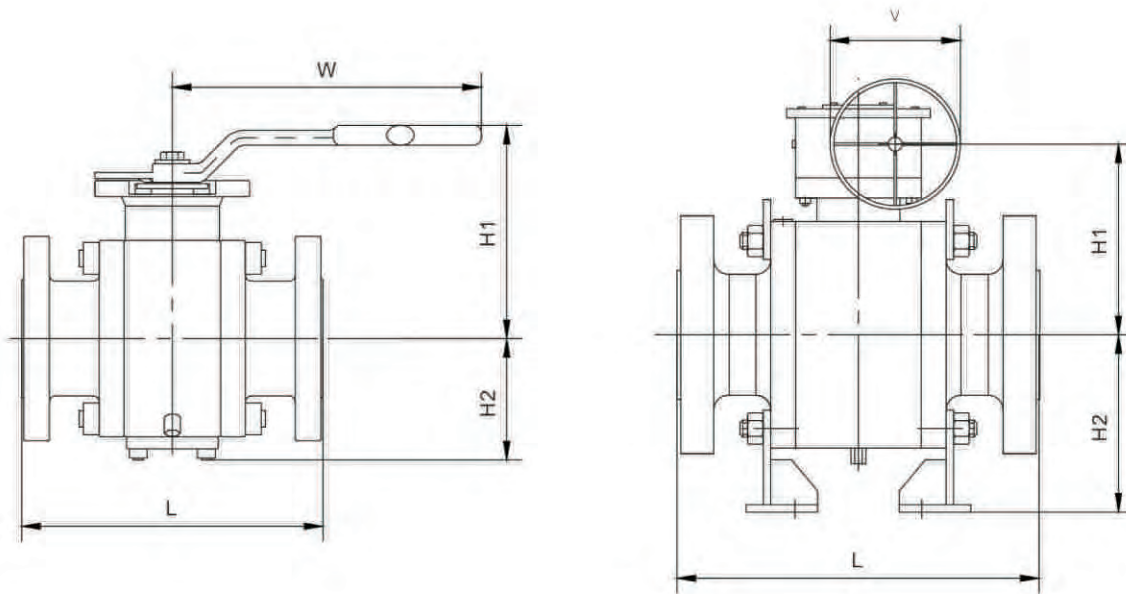


Class 900LB

Size in		D		L						H1	H2	W		V		Weight kg			
				RF		BW		RTJ											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.93	49	14.49	368	14.49	368	14.61	371	7.59	192.8	3.70	94.0	15.75	400			125.66	57
3	80	2.91	74	15.00	381	15.00	381	15.12	384	7.66	194.5	4.25	108.0			11.81	300	185.19	84
4	100	3.94	100	17.99	457	17.99	457	18.11	460	8.88	225.5	5.45	138.5			15.75	400	284.40	129
6	150	5.91	150	24.02	610	24.02	610	24.13	613	11.52	292.5	10.75	273.0			19.69	500	1164.04	528
8	200	7.91	201	29.02	737	29.02	737	29.13	740	13.58	345.0	12.50	317.5			23.62	600	1311.75	595
10	250	9.92	252	32.99	838	32.99	838	33.11	841	18.54	471.0	14.21	361.0			23.62	600	2103.21	954
12	300	11.93	303	37.99	965	37.99	965	38.11	968	22.17	563.0	16.26	413.0			23.62	600	3097.49	1405
14	350	12.68	322	40.51	1029	40.51	1029	40.87	1038	23.64	600.5	17.26	438.5			27.56	700	4259.33	1932
16	400	14.69	373	44.49	1130	44.49	1130	44.88	1140	21.28	540.5	19.27	489.5			29.92	760	5317.54	2412
18	450	16.65	423	47.99	1219	47.99	1219	48.50	1232	22.99	584.0	21.18	538.0			29.92	760	7433.98	3372
20	500	18.54	471	52.01	1321	52.01	1321	52.52	1334	26.12	663.5	22.85	580.5			29.92	760	9153.58	4152
22	550	20.55	522							34.00	863.5	24.70	627.5			29.92	760	11666.85	5292
24	600	22.44	570	60.98	1549	60.98	1549	61.73	1568	35.57	903.5	26.57	675.0			29.92	760	14542.56	6596
26	650	24.29	617	65.00	1651	65.00	1651	65.87	1673	37.80	960.0	28.43	722.0			29.92	760	19701.37	8936
28	700	26.18	665	69.02	1753	69.02	1753	69.88	1775	38.35	974.0	30.30	769.5			29.92	760	26989.84	12242
30	750	28.03	712	74.02	1880	74.02	1880	74.88	1902	43.09	1094.5	31.85	809.0			31.50	800	30270.31	13730
32	800	29.92	760	80.00	2032	80.00	2032	80.87	2054	45.16	1147.0	33.56	852.5			35.43	900	32016.37	14522
34	850	31.81	808	85.00	2159	85.00	2159	86.14	2188	41.50	1054.0	29.36	745.8			35.43	900	46196.49	20954
36	900	33.66	855	90.00	2286	90.00	2286	91.14	2315	42.81	1087.5	30.68	779.3			35.43	900	53318.29	24185

Dimensions

Series BS Trunnion Mounted Ball Valve



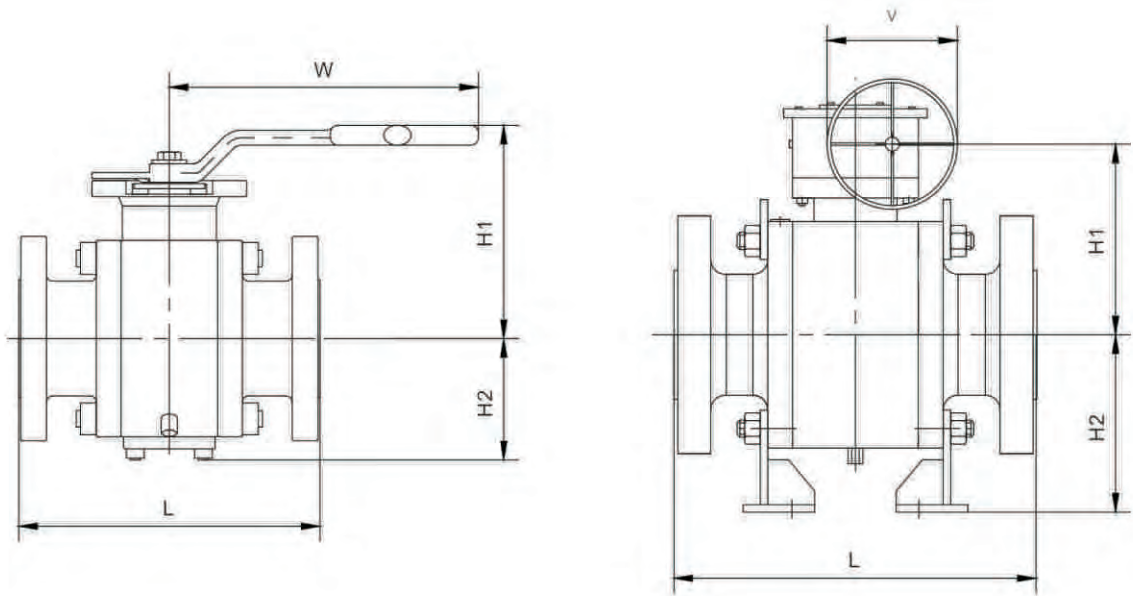
Class 1500LB

Size in		D		L						H1		H2		W		V		Weight kg	
				RF		BW		RTJ											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.93	49	14.49	368	14.49	368	14.61	371	7.59	192.8	3.94	100.0	15.75	400			138.89	63
3	80	2.91	74	18.50	470	18.50	470	18.62	473	8.35	212.0	4.78	121.3			15.75	400	266.21	121
4	100	3.94	100	21.50	546	21.50	546	21.61	549	9.57	243.0	5.98	152.0			15.75	400	425.49	193
6	150	5.67	144	27.76	705	27.76	705	27.99	711	12.42	315.5	11.54	293.0			23.62	600	1572.78	713
8	200	7.56	192	32.76	832	32.76	832	33.11	841	18.27	464.0	13.64	346.5			23.62	600	2039.19	925
10	250	9.41	239	39.02	991	39.02	991	39.37	1000	21.93	557.0	15.67	398.0			27.56	700	3240.46	1470
12	300	11.30	287	44.49	1130	44.49	1130	45.12	1146	20.08	510.0	17.83	453.0			29.92	760	5884.35	2669
14	350	12.40	315	49.49	1257	49.49	1257	50.24	1276	21.20	538.5	18.90	480.0			29.92	760	6101.29	2768
16	400	14.17	360	54.49	1384	54.49	1384	55.39	1407	23.68	601.5	20.77	527.5			29.92	760	7484.24	3395
18	450	15.98	406	60.51	1537	60.51	1537	61.38	1559	30.69	779.5	23.05	585.5			29.92	760	9886.79	4485
20	500	17.87	454	65.51	1664	65.51	1664	66.38	1686	32.46	824.5	25.04	636.0			29.92	760	12194.44	5531
22	550	19.69	500							35.57	903.5	26.69	678.0			35.43	900	15540.65	7049
24	600	21.50	546	76.50	1943	76.50	1943	77.64	1972	40.37	1025.5	28.64	727.5			31.50	800	19391.24	8796

Class 2500LB

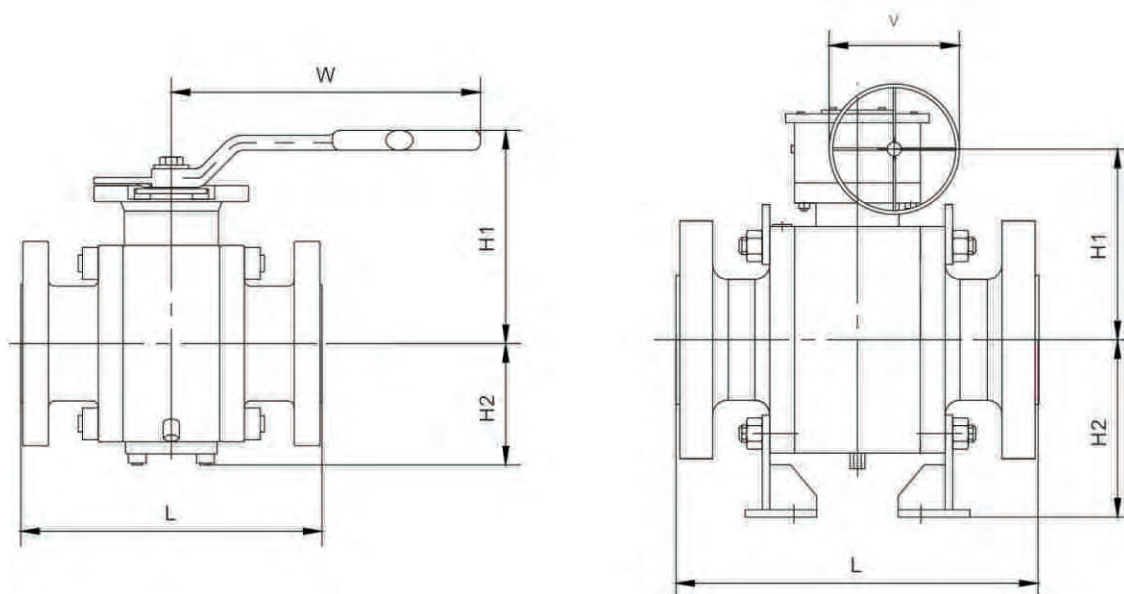
Size in		D		L						H1		H2		W		V		Weight kg	
				RF		BW		RTJ											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.65	42	17.76	451	17.76	451	17.87	454	7.24	184	5.26	133.5	15.75	400			238.10	108
3	80	2.44	62	22.76	578	22.76	578	22.99	584	8.64	219.5	6.16	156.5			23.62	600	529.11	240
4	100	3.43	87	26.50	673	26.50	673	26.89	683	10.12	257	7.32	186			23.62	600	1018.53	462
6	150	5.16	131	35.98	914	35.98	914	36.50	927	8.54	217	13.62	346			23.62	600	2058.23	934
8	200	7.05	179	40.24	1022	40.24	1022	40.87	1038	7.72	196	16.18	411			27.56	700	3576.78	1622
10	250	8.78	223	50.00	1270	50.00	1270	50.87	1292	3.35	85	18.43	468			29.92	760	5653.53	2564
12	300	10.43	265	55.98	1422	55.98	1422	56.89	1445	4.29	109	19.92	506			29.92	760	8642.99	3920

Series BS Trunnion Mounted Ball Valve



Class 2500LB

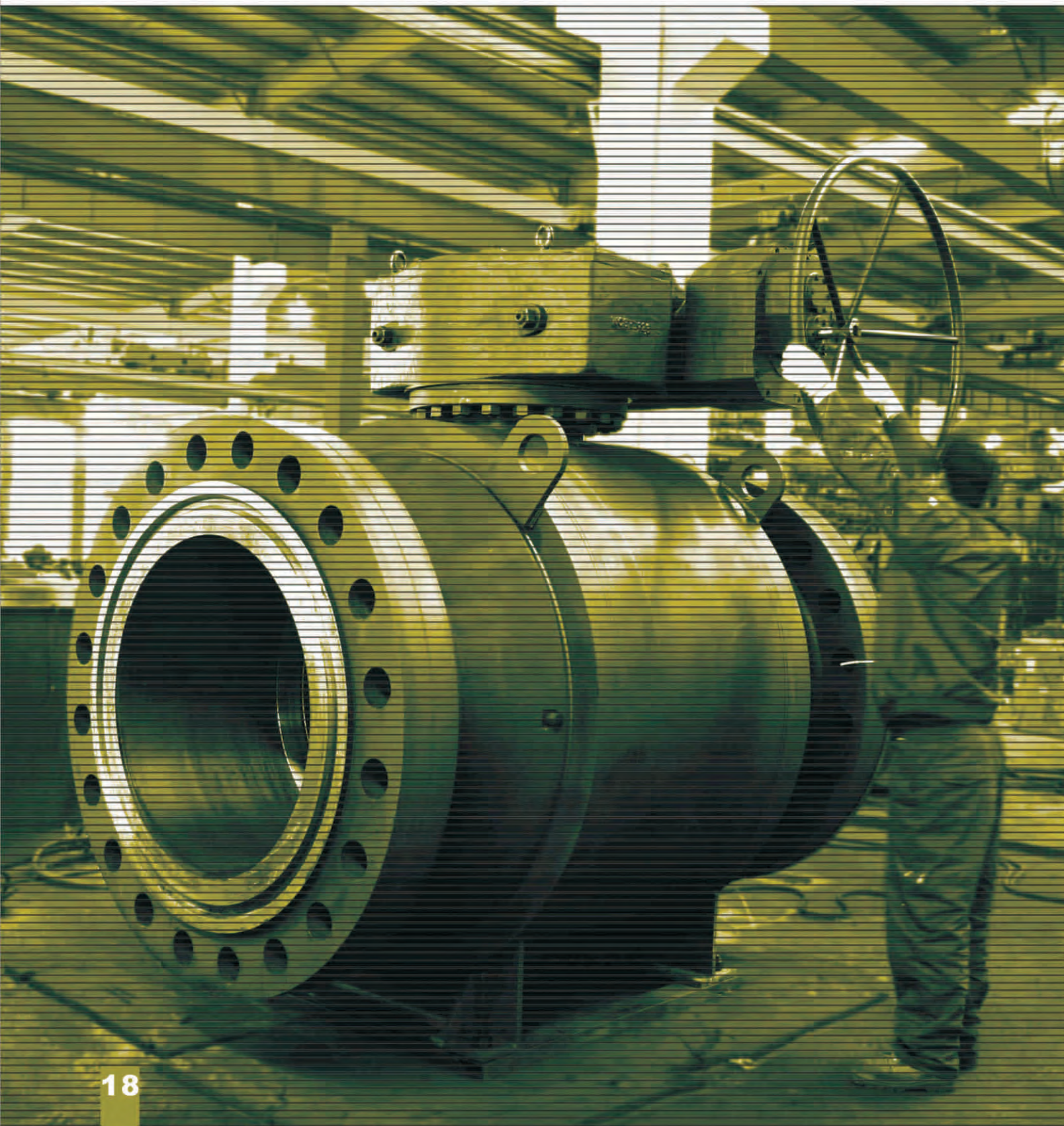
Size in		D		L						H1		H2		W		V		Weight kg	
				RF		BW		RTJ											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.65	42	17.76	451	17.76	451	17.87	454	7.24	184	5.26	133.5	15.75	400			238.10	108
3	80	2.44	62	22.76	578	22.76	578	22.99	584	8.64	219.5	6.16	156.5			23.62	600	529.11	240
4	100	3.43	87	26.50	673	26.50	673	26.89	683	10.12	257	7.32	186			23.62	600	1018.53	462
6	150	5.16	131	35.98	914	35.98	914	36.50	927	8.54	217	13.62	346			23.62	600	2058.23	934
8	200	7.05	179	40.24	1022	40.24	1022	40.87	1038	7.72	196	16.18	411			27.56	700	3576.78	1622
10	250	8.78	223	50.00	1270	50.00	1270	50.87	1292	3.35	85	18.43	468			29.92	760	5653.53	2564
12	300	10.43	265	55.98	1422	55.98	1422	56.89	1445	4.29	109	19.92	506			29.92	760	8642.99	3920



Class 2500LB

Size in		D		L						H1		H2		W		V		Weight kg	
				RF		BW		RTJ											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	1.65	42	17.76	451	17.76	451	17.87	454	7.24	184	5.26	133.5	15.75	400			238.10	108
3	80	2.44	62	22.76	578	22.76	578	22.99	584	8.64	219.5	6.16	156.5			23.62	600	529.11	240
4	100	3.43	87	26.50	673	26.50	673	26.89	683	10.12	257	7.32	186			23.62	600	1018.53	462
6	150	5.16	131	35.98	914	35.98	914	36.50	927	8.54	217	13.62	346			23.62	600	2058.23	934
8	200	7.05	179	40.24	1022	40.24	1022	40.87	1038	7.72	196	16.18	411			27.56	700	3576.78	1622
10	250	8.78	223	50.00	1270	50.00	1270	50.87	1292	3.35	85	18.43	468			29.92	760	5653.53	2564
12	300	10.43	265	55.98	1422	55.98	1422	56.89	1445	4.29	109	19.92	506			29.92	760	8642.99	3920

Series BW Fully Welded Ball Valves



Neway series BW ball valves are a fully welded body and trunnion mounted ball valve, available in from size 2" to 60" ANSI class from 150 to 2500, temperature range from -46°C to 200°C. Fire safe conforming to BS 6755 and API 6Fa.

Compared to flanged split body trunnion mounted ball valves, fully welded body valves eliminate the possibility of leakage through the body connection. The fully welded body design is compact, cost-efficient and

provides maximum strength and maximum resistance to pipeline pressures and stresses. In order to avoid internal damage caused by heat transfer during installation/welding, the valves are designed with extended weld ends.

The fully welded body ball valve is preferred in applications such as long-distance transport pipelines and under-ground services.

Blow-out proof stem internally inserted which functions as the backseat for assuring stem sealing at all pressure.

Emergency sealant injection fitting to prevent leakage from stem.

Welded construction to eliminate external leakage through the connect of body and closures.

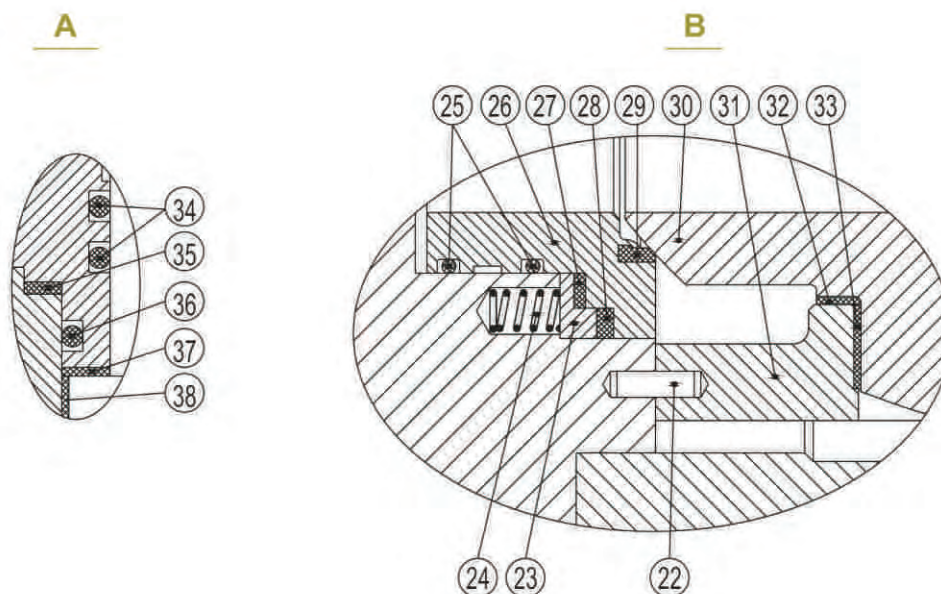
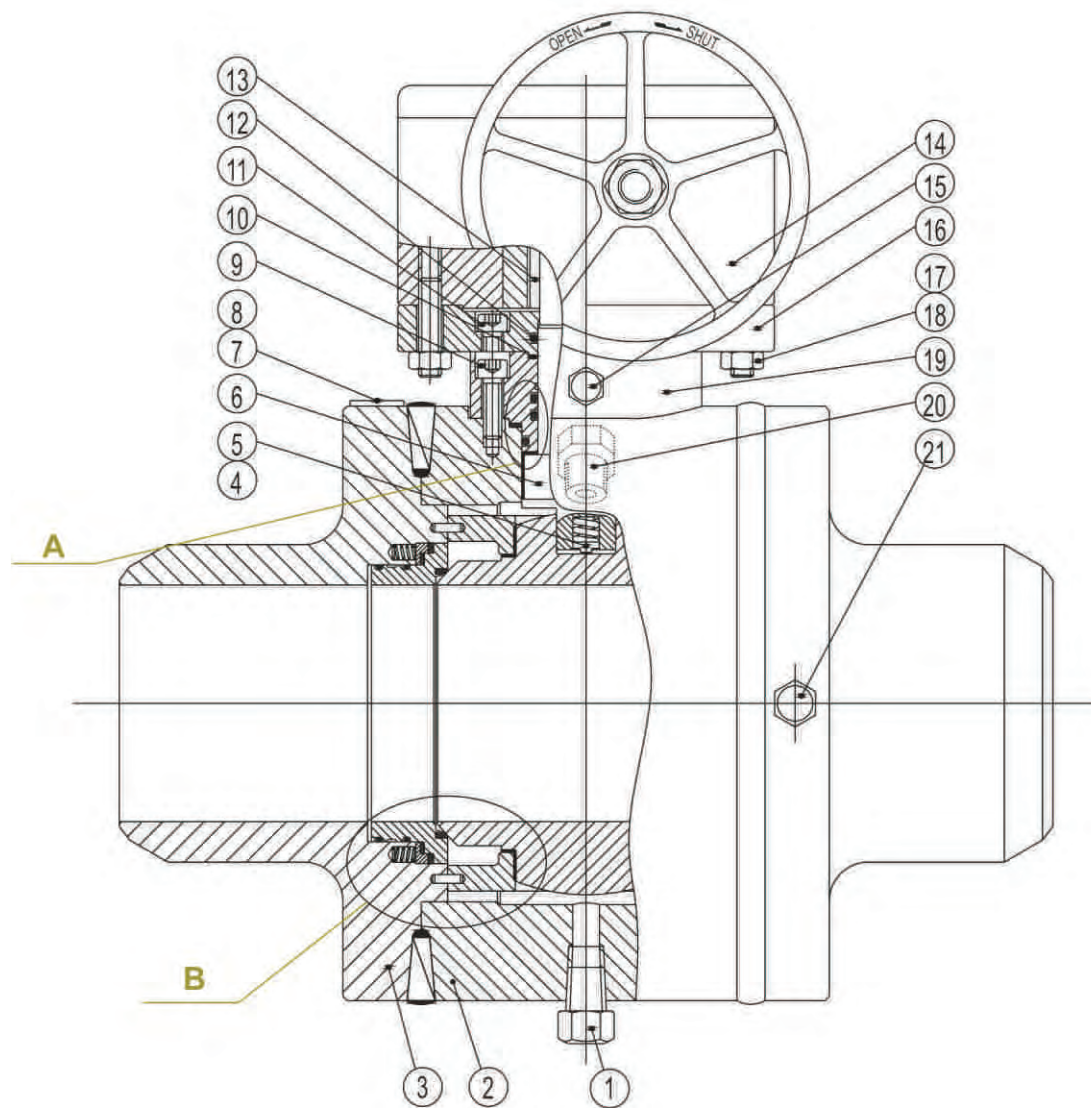
Secondary metal-to-metal sealing to ensure shutting off the line fluid when non-metal sealing is deteriorated by fire.

Emergency sealant injection fitting to prevent leakage from seats.

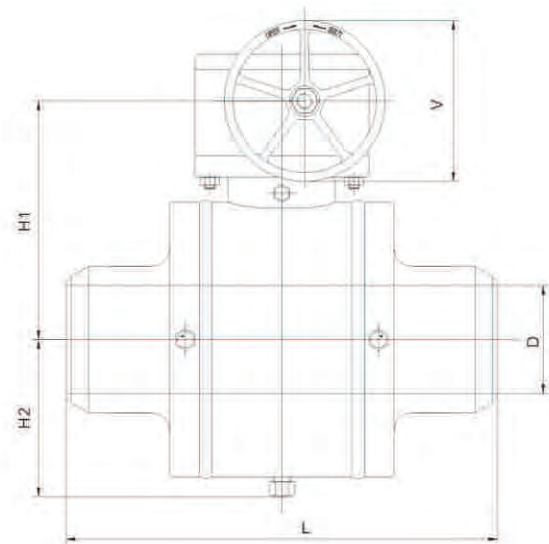
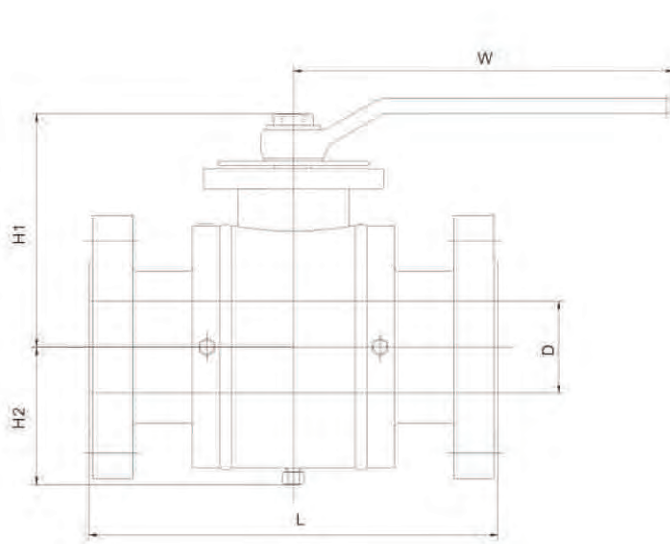
Floating spring loaded energized seats to ensure sealing even at low pressure



This is a typical NEWAY series BW fully welded ball valve illustrated cross-section drawing which is only for demonstrating of basic design features. The actual product design may be slightly different from the sample drawing due to size and pressure class.



NO.	Part Name	Carbon Steel	Stainless Steel	Low Temperature Service
1	Drain	Stainless Steel	Stainless Steel	Stainless Steel
2	Body	ASTM A105	ASTM A182 F316	ASTM A350 LF2
3	Closure	ASTM A105	ASTM A182 F316	ASTM A350 LF2
4	Grounding Plunger	Stainless Steel	Stainless Steel	Stainless Steel
5	Grounding Spring	Stainless Steel	Stainless Steel	Stainless Steel
6	Stem	ASTM A105/ENP	ASTM A182 F316	ASTM A350 LF2/ENP
7	Nameplate	Stainless Steel	Stainless Steel	Stainless Steel
8	Rivet	Stainless Steel	Stainless Steel	Stainless Steel
9	Gland Cap Screw	Carbon Steel	Stainless Steel	ASTM A320 L7M
10	Top Flange Gasket	316Stainless Steel+Graphite	316Stainless Steel+Graphite	316Stainless Steel+Graphite
11	Top Flange Screw	Stainless Steel	Stainless Steel	ASTM A320 L7M
12	Top Flange O-ring	VITON	VITON	HSN
13	Stem Key	Carbon Steel	Stainless Steel	Stainless Steel
14	Gearbox	ASTM A216 WCB	ASTM A216 WCB	ASTM A352 LCB
15	Stem Injection	Stainless Steel	Stainless Steel	Stainless Steel
16	Top Flange	ASTM A105/ENP	ASTM A182 F316	ASTM A350 LF2
17	Actuator Stud	Carbon Steel	Stainless Steel	ASTM A320 L7M
18	Actuator Nut	Carbon Steel	Stainless Steel	ASTM A194 7M
19	Gland Cap	ASTM A105	ASTM A182 F316	ASTM A350 LF2
20	Vent Valve	Stainless Steel	Stainless Steel	Stainless Steel
21	Seat Injection	Stainless Steel	Stainless Steel	Stainless Steel
22	Trunnion Pin	Stainless Steel	Stainless Steel	Stainless Steel
23	Seat Follower	ASTM A105/ENP	ASTM A182 F316	ASTM A350 LF2/ENP
24	Seat Spring	INCONEL X-750	INCONEL X-750	INCONEL X-750
25	Seat O-ring	VITON	VITON	HSN
26	Seat Ring	ASTM A105/ENP	ASTM A182 F316	ASTM A350 LF2/ENP
27	Seat Gasket	PTFE	PTFE	PTFE
28	Firesafe Gasket	316Stainless Steel+Graphite	316Stainless Steel+Graphite	316Stainless Steel+Graphite
29	Seat Insert	NYLON	NYLON	NYLON
30	Ball	ASTM A105/ENP	ASTM A182 F316	ASTM A350 LF2/ENP
31	Trunnion Support	ASTM A216 WCB/ENP	ASTM A351 CF8	ASTM A352 LCB/ENP
32	Ball Thrust Washer	Reinforced PTFE	Reinforced PTFE	Reinforced PTFE
33	Ball Bearing	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2
34	Stem O-ring	VITON	VITON	HSN
35	Gland Cap Gasket	316Stainless Steel+Graphite	316Stainless Steel+Graphite	316Stainless Steel+Graphite
36	Gland Cap O-ring	VITON	VITON	HSN
37	Stem Thrust Washer	Reinforced PTFE	Reinforced PTFE	Reinforced PTFE
38	Stem Bearing	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2



Class 150LB

Size in	D mm	L		H1 mm	H2 mm	W		Weight Kg
		RF mm	BW mm			mm	V mm	
2	51	178	216	200	110	265		30
3	76	203	283	300	126	285		60
4	102	229	305	315	165	285		92
6	152	394	457	335	165		300	190
8	203	457	521	405	200		300	345
10	254	533	559	427	220		300	495
12	305	610	635	465	262		500	705
14	337	686	762	506	293		600	859
16	387	762	838	622	341		600	1020
18	438	864	914	666	92		600	1440
20	489	914	991	730	435		600	1918
22	540	1067	1143	833	480		600	2352
24	591	1143	1245	895	518		800	2803
26	635	1245	1346	900	535		800	3200
28	686	1295	1397	935	542		800	4045
30	737	1372	1524	1010	605		800	4820
32	781	1473	1626	1060	650		800	5490
34	832	1524	1727	1077	650		800	6704
36	876	1753	1956	1115	700		800	7615
40	978	1855	2083	1400	865		800	110271
42	1022	2134	2134	1598	900		800	12110
48	1168	2489	2489	1722	1042		800	18360
54	1314	2573	2573	1796	1165		800	32600
56	1362			1820	1280		800	36500
60	1461			1865	1496		800	39100

Class 300LB

Size in	D mm	L		H1 mm	H2 mm	W mm	V mm	Weight Kg
		RF mm	BW mm					
2	51	216	216	206	113	265		31
3	76	283	283	315	129	400		69
4	102	305	305	330	169	750		11
6	152	403	403	345	148		300	211
8	203	502	521	415	185		300	376
10	254	568	559	427	226		400	540
12	305	648	635	465	269		500	763
14	337	762	762	519	300		600	900
16	387	838	838	638	350		600	1300
18	438	914	914	683	402		600	1715
20	489	991	991	748	446		600	2090
22	540	1092	1092	854	492		600	2220
24	591	1143	1143	917	531		800	2890
28	686	1346	1346	958	556		800	4575
30	737	1397	1397	1035	620		800	5590
32	781	1524	1524	1087	666		800	6240
34	832	1626	1626	1104	666		800	7370
36	876	1727	1727	1143	718		800	8435
40	978	1956	1956	1435	887		800	11200
42	1022	2083	2083	1638	923		800	13050
48	1168	2170	2170	1765	1068		800	19000
54	1314			1796	1165		800	32600
56	1362	2543	2543	1820	1280		800	36500
60	1461	2627	2627	1865	1496		800	39100

Class 400LB

Size in	D mm	L			H1 mm	H2 mm	W mm	V mm	Weight Kg
		RF mm	BW mm	RTJ mm					
2	51	292	292	295	206	113	400		45
3	76	356	356	359	315	129	750		80
4	102	406	406	410	330	169	1000		150
6	152	495	495	498	345	148		300	248
8	203	597	597	600	415	185		300	438
10	254	673	673	676	427	226		500	701
12	305	762	762	765	465	269		600	625
14	337	826	826	829	519	300		600	1230
16	387	902	902	905	638	350		600	1535
18	438	978	978	981	683	402		600	2135
20	489	1054	1054	1060	748	446		600	2640
22	540	1143	1143	1153	854	492		800	3370
24	591	1232	1232	1241	917	531		800	3960
28	686	1397	1397	1410	958	556		800	6060
30	737	1524	1524	1537	1035	620		800	6690
32	781	1651	1651	1667	1087	666		800	7825
34	832	1778	1778	1794	1104	666		800	8460
36	876	1880	1880	1895	1143	718		800	10650
40	978	2170	2170		1435	887		800	14700
42	1022	2175	2175		1638	923		800	16410
48	1168	2435	2435		1765	1068		800	24200
54	1314				1796	1165		800	32600
56	1362	2710	2710		1820	1280		800	36500
60	1461	2794	2794		1865	1496		800	39100

Class 600LB

Size in	D mm	L			H1 mm	H2 mm	W mm		V mm	Weight Kg
		RF mm	BW mm	RTJ mm						
2	51	292	292	295	206	113	400			45
3	76	356	356	359	315	129	750			80
4	102	432	432	435	330	169	1000			150
6	152	559	559	562	345	148		300		248
8	203	660	660	664	415	185		300		438
10	254	787	787	791	427	226		500		701
12	305	838	838	841	465	269		600		625
14	337	889	889	892	519	300		600		1230
16	387	991	991	994	638	350		600		1535
18	438	1092	1092	1095	683	402		600		2135
20	489	1194	1194	1200	748	446		600		2640
22	540	1295	1295	1305	854	492		800		3370
24	591	1397	1397	1407	917	531		800		3960
28	686	1549	1549	1562	958	556		800		6060
30	737	1651	1651	1664	1035	620		800		6690
32	781	1778	1778	1794	1087	666		800		7825
34	832	1930	1930	1946	1104	666		800		8460
36	876	2083	2083	2099	1143	718		800		10650
40	978	2170	2170	2170	1435	887		800		14700
42	1022	2175	2175	2175	1638	923		800		16410
48	1168	2435	2435	2435	1765	1068		800		24200
54	1314				1796	1165		800		32600
56	1362	2710	2710	2710	1820	1280		800		36500
60	1461	2794	2794	2794	1865	1496		800		39100

Class 900LB

Size in	D mm	L			H1 mm	H2 mm	W mm		V mm	Weight Kg
		RF mm	BW mm	RTJ mm						
2	51	368	368	371	217	119	460			52
3	76	381	381	384	327	133	1000			87
4	102	457	457	460	343	176		300		160
6	152	610	610	613	358	153		300		385
8	203	737	737	740	431	193		400		560
10	254	838	838	841	443	235		500		820
12	305	965	965	968	484	280		600		1125
14	324	1029	1029	1038	540	312		600		1610
16	375	1130	1130	1140	660	365		600		2010
18	425	1219	1219	1232	700	414		600		2810
20	473	1321	1321	1334	770	459		600		3460
22	524				880	507		800		4410
24	572	1549	1549	1568	945	547		800		5497
28	667				987	573		800		10202
30	714	1880			1066	638		800		11442
32	762	2032			1120	686		800		12102
34	810	2159			1137	688		800		17462
36	857	2286			1177	739		800		20154

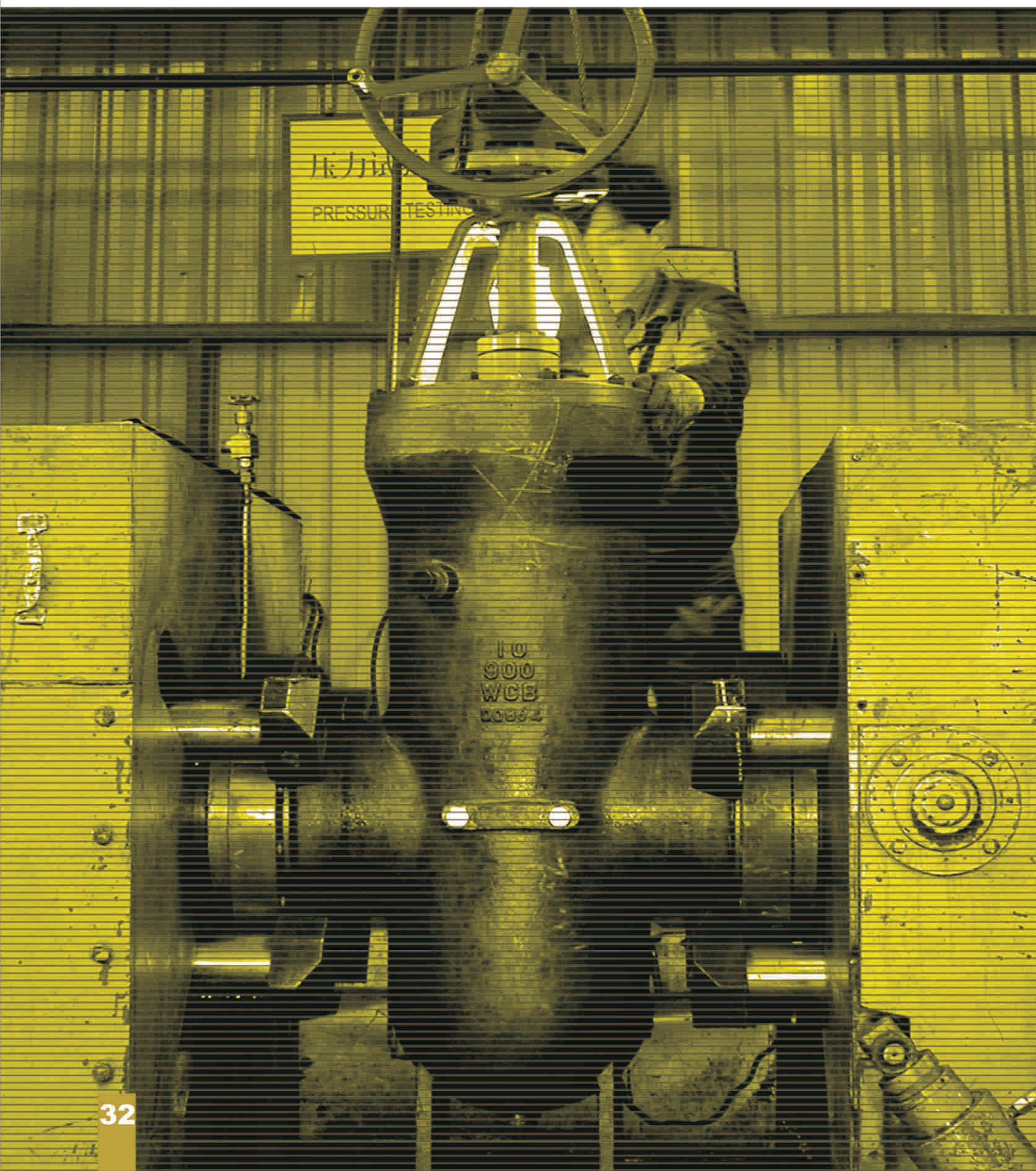
Class 1500LB

Size in	D mm	L			H1 mm	H2 mm	W mm	V mm	Weight Kg
		RF mm	BW mm	RTJ mm					
2	51	368	368	371	221	130	750		60
3	76	470	470	473	297	152		300	115
4	102	546	546	549	345	166		300	194
6	146	705	705	711	365	192		400	580
8	194	832	832	841	423	238		500	752
10	241	991	991	1000	560	274		600	1195
12	289	1130	1130	1146	608	318		600	2170
14	318	1257	1257	1276	662	483		600	2250
16	362	1384	1384	1407	796	534		600	2760
18	407	1537	1537	1559	849	606		600	3646
20	457	1664	1664	1686	964	686		800	4497
22	495	1816	1816		1025	731		800	5731
24	534	2043	2043	2071	1065	775		800	7151

Class 2500LB

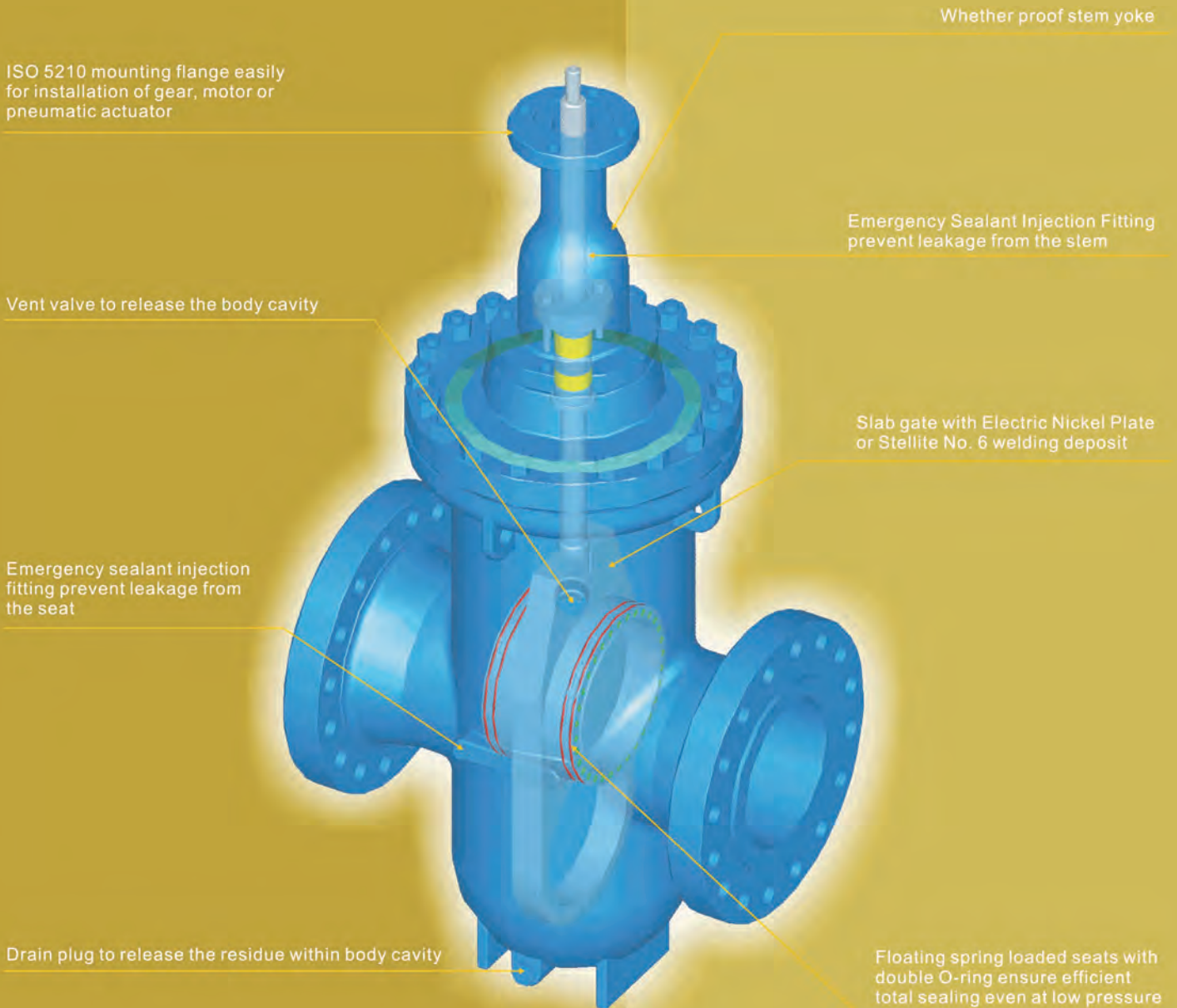
Size in	D mm	L			H1 mm	H2 mm	V mm	Weight Kg
		RF mm	BW mm	RTJ mm				
2	44	451	451	454	230	121	300	90
3	64	578	578	584	284	146	400	200
4	89	673	673	683	303	164	400	385
6	133	914	914	927	394	220	600	778
8	181	1022	1022	1038	488	312	600	1352
10	225	1270	1270	1292	600	425	600	2137
12	267	1422	1422	1445	872	629	760	3267

Series GT Through Conduit Gate Valve

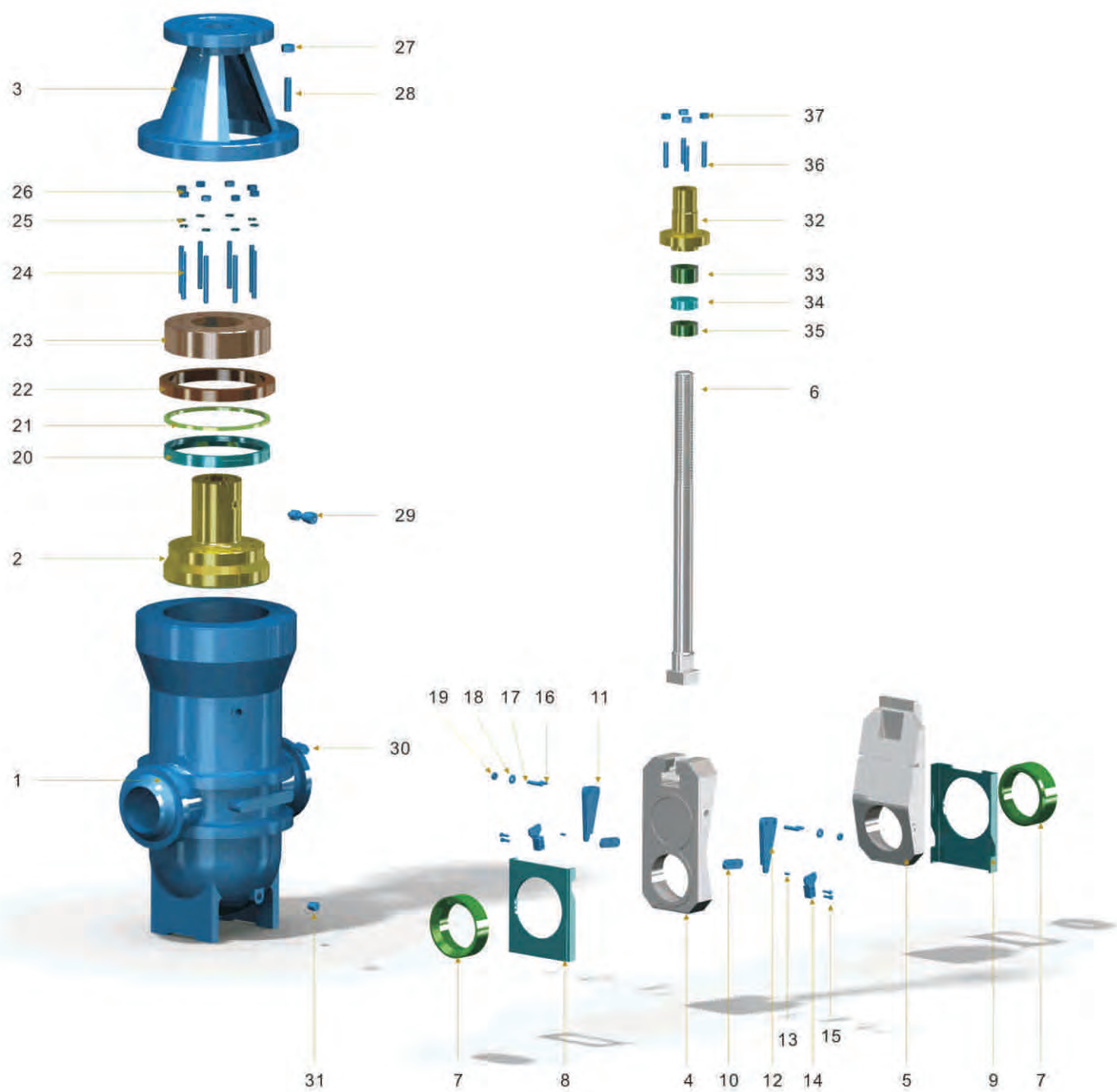


Neway through conduit gate valves has 2 main series: Slab Gate and Expanding Gate, both are fully comply with API 6D standard. For conventional temperature service, Neway slab gate valves are designed for temperature service ranging from -46°C

to 200°C. For high temperature service, Neway expanding gate valve can be used up to 500°C. Neway through conduit gate valve size range from 2" ~48" class rating from 150lb~2500lb, all available in bolted bonnet or pressure seal bonnet.

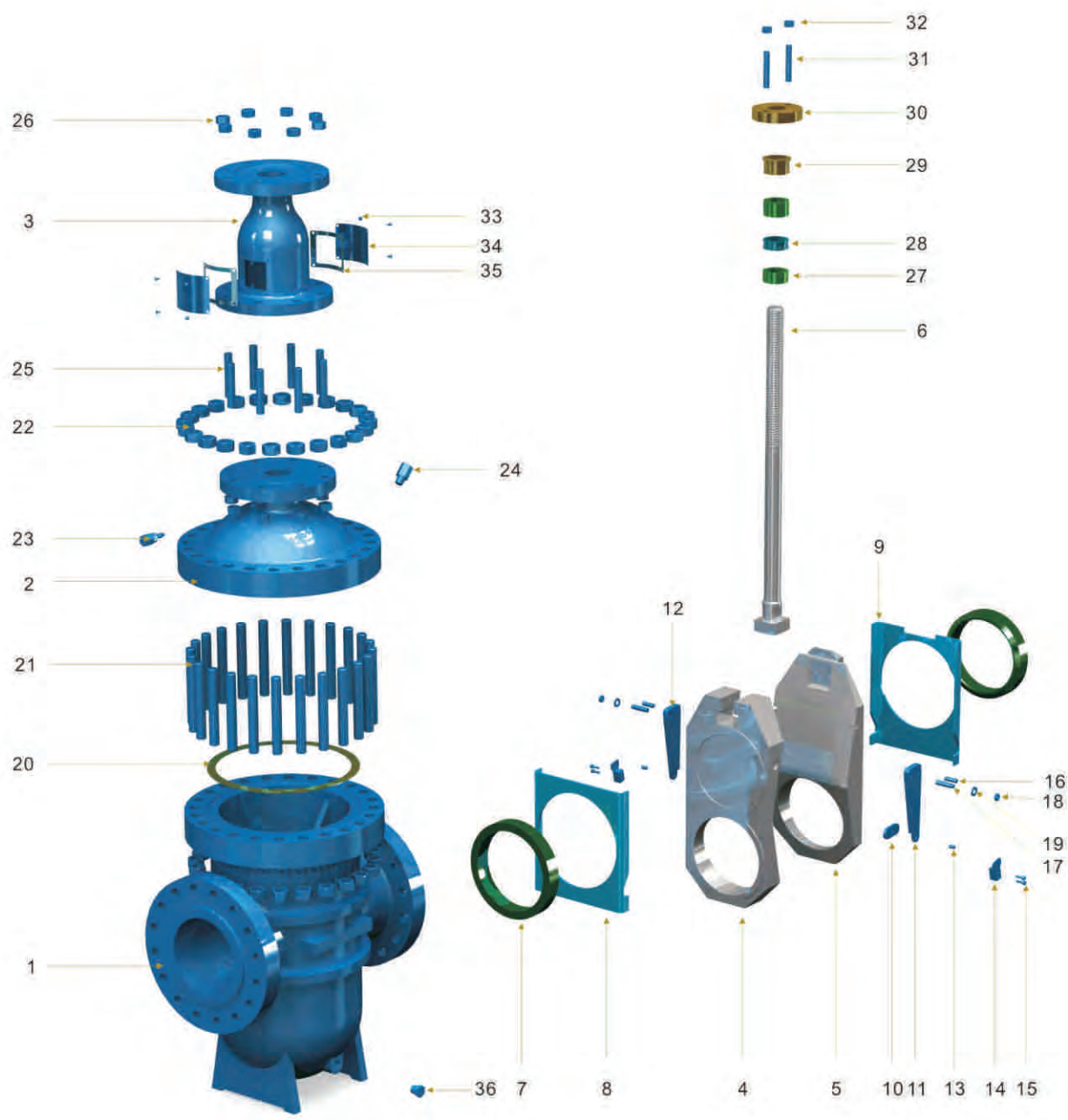


This is a typical NEWAY series GT Through Conduit Gate Valve illustrated cross-section drawing which is only for demonstrating of basic design features. The actual product design may be slightly different from this sample drawing due to its size and pressure class.



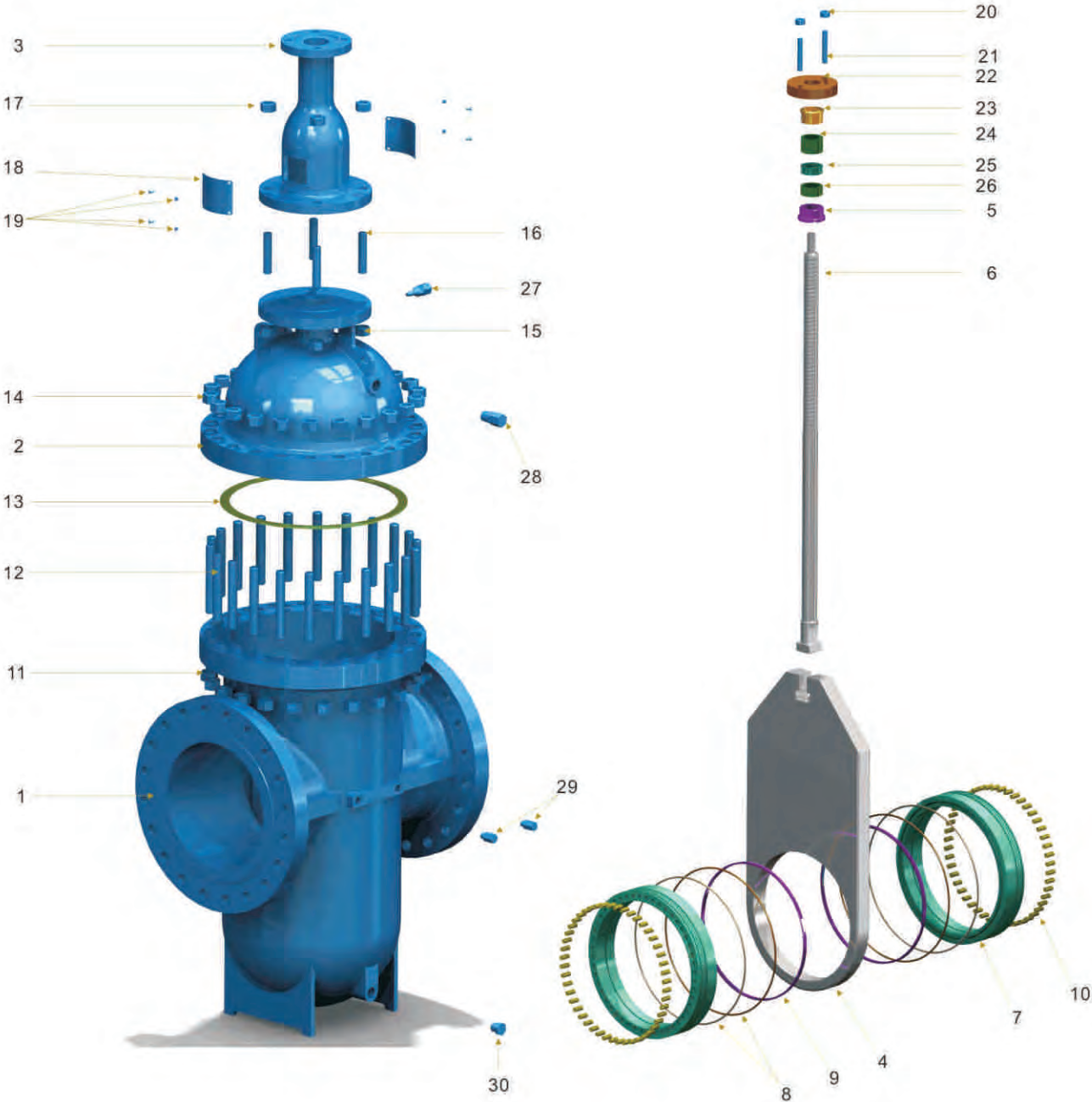
No	Part	Standard	Sour Service	Low Temperature Service
1	Body	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
2	Bonnet	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
3	Yoke	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
4	Main Wedge	ASTM A105N/HARD FACE	ASTM A105N/HARD FACE	ASTM A350-LF2/HARD FACE
5	Second Wedge	ASTM A105N/HARD FACE	ASTM A105N/HARD FACE	ASTM A350-LF2/HARD FACE
6	Stem	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F316
7	Seat Ring	ASTM A105N/HARD FACE	ASTM A105N/HARD FACE	ASTM A350-LF2/HARD FACE
8	Body Stud	ASTM A193-B7	ASTM A193-B7M	ASTM A320-L7M
9	Body Nut	ASTM A194-2H	ASTM A194-2HM	ASTM A194-7M

Index No	Part	Index No	Part	Index No	Part
1	Body	15	Screw	29	Stem Injection
2	Bonnet	16	Pin	30	Vent Valve
3	Yoke	17	Pin	31	Plug
4	Main Wedge	18	Washer	32	Gland
5	Second Wedge	19	Nut	33	Packing
6	Stem	20	Gasket	34	Lantern Ring
7	Seat Ring	21	Compression Ring	35	Packing
8	Main Guider Plate	22	Separated Ring	36	Stud
9	Second Guider Plate	23	Supporting Cover	37	Nut
10	Slide Block	24	Stud		
11	Left Roker	25	Washer		
12	Right Roker	26	Nut		
13	Pin	27	Nut		
14	Base Block Rough	28	Stud		



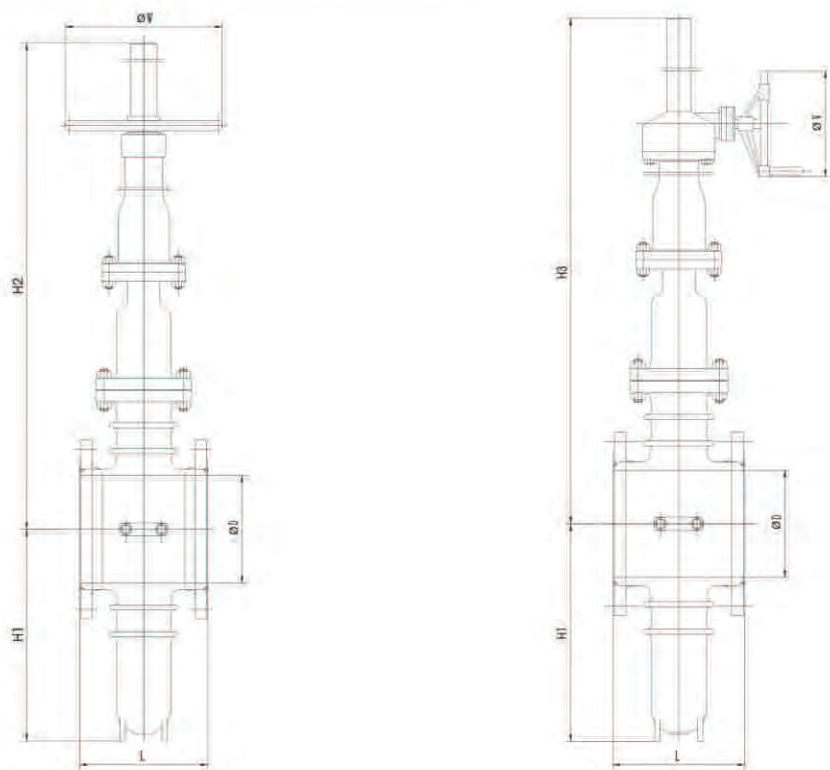
No	Part	Standard	Sour Service	Low Temperature Service
1	Body	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
2	Bonnet	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
3	Yoke	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
4	Main Wedge	ASTM A105N/HARD FACE	ASTM A105N/HARD FACE	ASTM A350-LF2/HARD FACE
5	Second Wedge	ASTM A105N/HARD FACE	ASTM A105N/HARD FACE	ASTM A350-LF2/HARD FACE
6	Stem	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F316
7	Seat Ring	ASTM A105N/HARD FACE	ASTM A105N/HARD FACE	ASTM A350-LF2/HARD FACE
8	Body Stud	ASTM A193-B7	ASTM A193-B7M	ASTM A320-L7M
9	Body Nut	ASTM A194-2H	ASTM A194-2HM	ASTM A194-7M

Index No	Part	Index No	Part	Index No	Part
1	Body	15	Screw	29	Gland
2	Bonnet	16	Pin	30	Gland Flange
3	Yoke	17	Pin	31	Stud
4	Main Wedge	18	Washer	32	Nut
5	Second Wedge	19	Nut	33	Screw
6	Stem	20	Gasket	34	Side Cover Plate
7	Seat Ring	21	Body Stud	36	Gasket
8	Main Guider Plate	22	Body Nut	36	Plug
9	Second Guider Plate	23	Stem Injection		
10	Slide Block	24	Vent Valve		
11	Right Roker	25	Stud		
12	Left Roker	26	Nut		
13	Pin	27	Packing		
14	Base Block Rough	28	Lantern Ring		



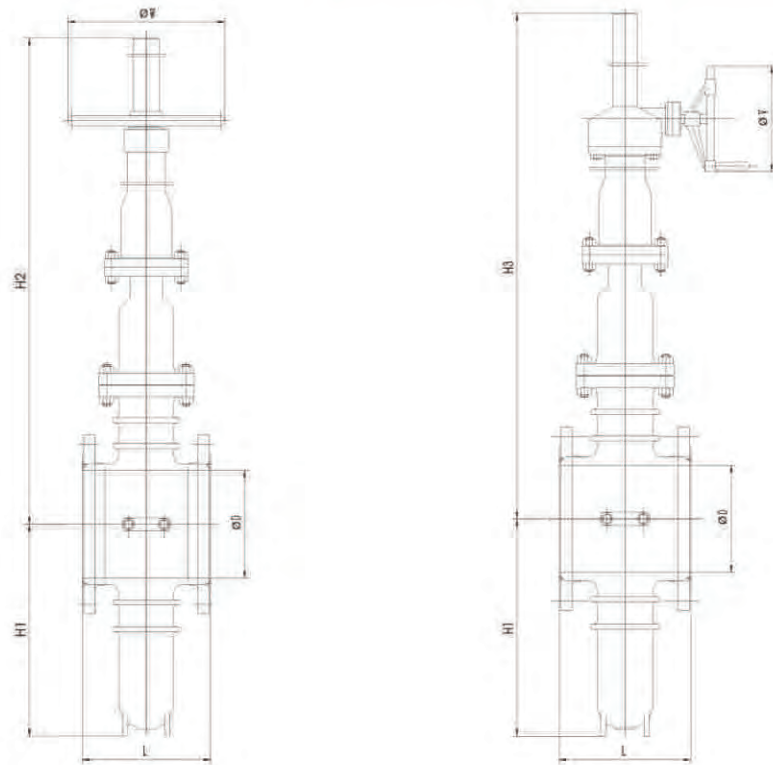
No	Part	Standard	Sour Service	Low Temperature Service
1	Body	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
2	Bonnet	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
3	Yoke	ASTM A216-WCB	ASTM A216-WCB	ASTM A352-LCB
4	Wedge	ASTM A105N/ENP	ASTM A105N/ENP	ASTM A350-LF2/ENP
5	Stem	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F316
6	Seat Ring	ASTM A105N/ENP	ASTM A105N/ENP	ASTM A350-LF2/ENP
7	Body Stud	ASTM A193-B7	ASTM A193-B7M	ASTM A320-L7M
8	Body Nut	ASTM A194-2H	ASTM A194-2HM	ASTM A194-7M

Index No	Part	Index No	Part	Index No	Part
1	Body	11	Nut	21	Stud
2	Bonnet	12	Stud	22	Gland Flange
3	Yoke	13	Gasket	23	Gland
4	Wedge	14	Nut	24	Packing
5	Back Seat	15	Nut	25	Lantern Ring
6	Stem	16	Stud	26	Packing
7	Retainer	17	Nut	27	Stem Injection
8	O-ring	18	Side Cover	28	Vent Valve
9	Gasket	19	Screw	29	Injection
10	Spring	20	Nut	30	Plug



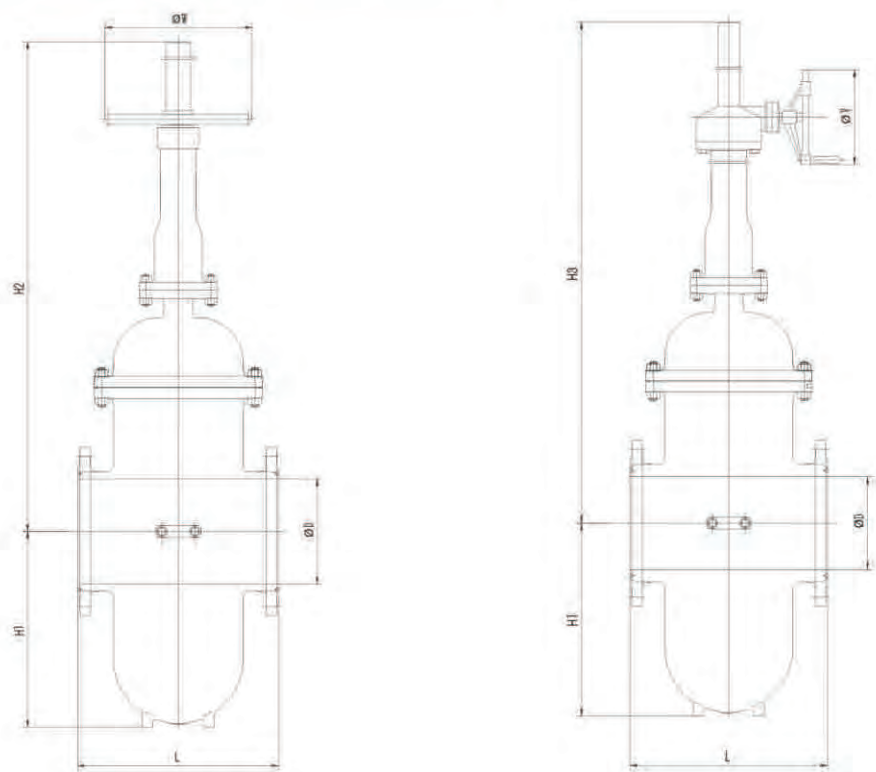
Class 150LB (in)

Size	H1	Travel	H2	H3	L			D	ϕW	ϕv	Weight
					BW	RF	RTJ				
2"	5.24	2.50	21.54		8.50	7.01	7.52	2.00	7.09		34
2-1/2"	7.09	3.07	23.35		9.49	7.52	8.00	2.50	7.87		48
3"	7.48	3.50	26.57		11.14	8.00	8.50	3.00	9.84		56
4"	9.96	4.76	28.66		12.01	9.02	9.49	4.00	7.87		84
6"	13.78	6.93	41.54	40.63	15.87	10.51	10.98	6.00	9.84	12.01	142
8"	16.54	8.94	49.49	50.35	16.50	11.50	12.01	8.00	11.81	12.01	236
10"	19.69	10.94	57.05	57.72	17.99	12.99	13.50	10.00	13.78	12.01	352
12"	22.83	13.43	65.94	66.14	19.76	14.02	14.49	12.00	15.75	12.01	450
14"	24.80	14.61	73.50	72.64	25.22	15.00	15.51	13.25	17.72	12.01	600
16"	28.66	16.69	80.20	79.76	24.02	15.98	16.50	15.25	19.69	17.72	736
18"	31.69	18.90	87.52	89.09	25.98	17.01	15.72	17.25	21.65	17.72	890
20"	35.04	20.94	24.12	96.50	27.99	17.99	18.50	19.25	23.62	24.02	1120
22"	38.58	22.99		106.50		20.00		21.25		24.02	1700
24"	41.73	24.88		115.16	32.01	20.00	20.51	23.25		24.02	2010
26	45.28	26.89		121.18	34.02	22.01		25.00		24.02	2320
28"	48.43	28.74		126.93	35.98	24.02		27.00		24.02	2650
30"	51.57	31.26		137.95	35.98	25.98		29.00		24.02	2920
32"	54.02	32.80		142.64	37.99	27.99		30.75		24.02	3580
34"	57.80	34.92		149.69	40.00	30.00		32.75		24.02	4280
36"	62.99	36.10		156.18	40.00	32.01		34.50		24.02	5370
40"	65.00	10.87		165.39	35.98	35.98		38.50		24.02	6820
42"	71.54	42.44		184.13	37.99	37.99		40.25		24.02	7460
48"	78.86	48.94		198.11	44.02	44.02		46.00		31.89	10480



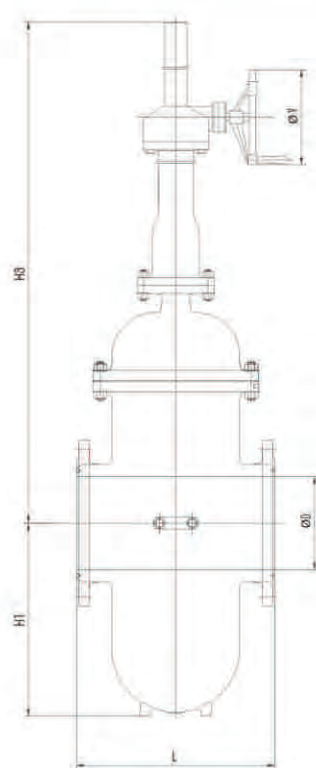
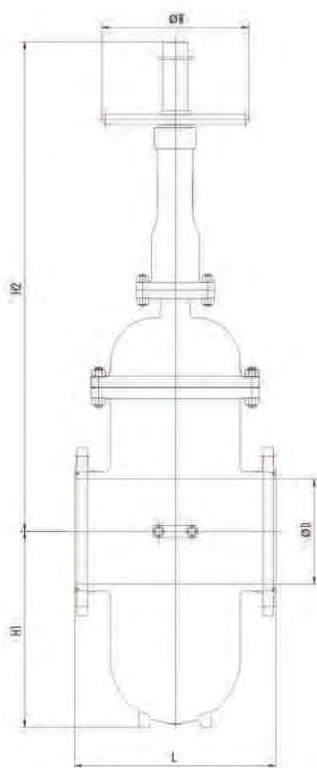
Class 150LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	133	65	547		216	178	191	51	180		34
65	180	78	593		241	191	203	64	200		48
80	190	89	675		283	203	216	76	250		56
100	253	121	728		305	229	241	102	200		84
150	350	176	1055	1032	403	267	279	152	250		142
200	420	227	1257	1279	419	292	305	203	300	305	236
250	500	278	1449	1466	457	330	343	254	350	305	352
300	580	341	1675	1680	502	356	368	305	400	305	450
350	630	371	1867	1845	572	381	394	337	450	305	600
400	728	424	2037	2026	610	406	419	387	500	305	736
450	805	480	2223	2263	660	432	445	438	550	458	890
500	890	532	2412	2451	711	457	470	489	600	458	1120
550	980	584		2705		508		540		610	1700
600	1060	632		2925	813	508	521	591		610	2010
650	1150	683		3078	864	559		635		610	2320
700	1230	730		3224	914	610		686		610	2650
750	1310	794		3504	914	660		737		610	2920
800	1372	833		3623	965	711		781		610	3580
850	1468	887		3802	1016	762		832		610	4280
900	1600	917		3967	1016	813		876		610	5370
1000	1651	1038		4201	914	914		978		610	6820
1050	1817	1078		4677	965	965		1022		610	7460
1200	2003	1243		5032	1118	1118		1168		810	10480



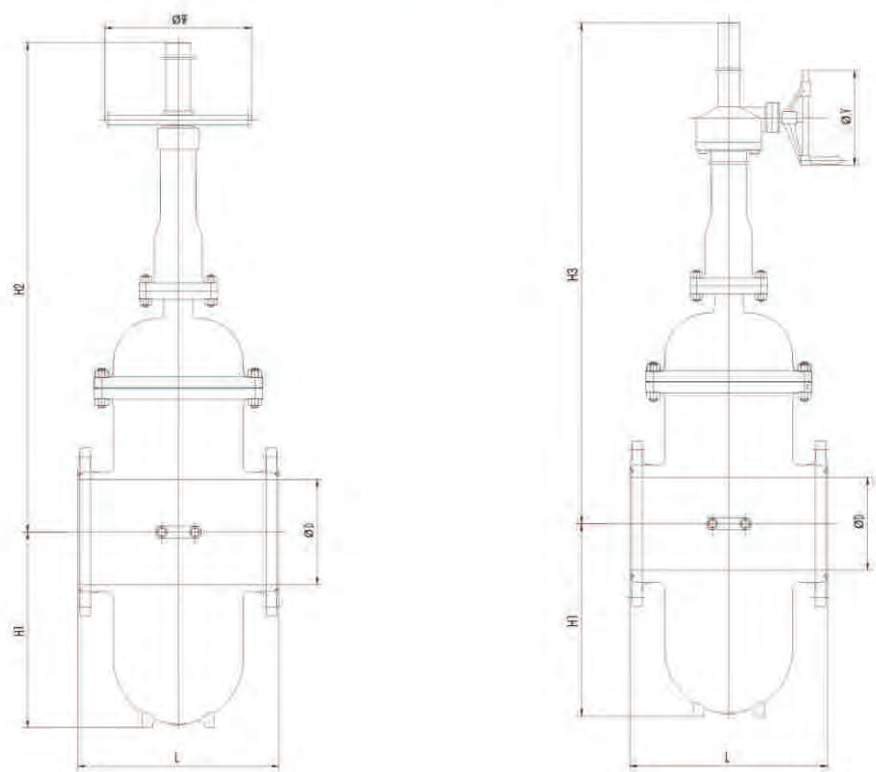
Class 300LB (in)

Size	H1	Travel	H2	H3	L			D	Ø W	Ø v	Weight
					BW	RF	RTJ				
2"	5.24	2.50	21.54		8.50	8.50	9.13	2.00	7.09		54
2-1/2"	7.68	3.23	23.35		9.49	9.49	10.12	2.50	7.87		72
3"	8.58	3.78	26.38		11.14	11.14	11.73	3.00	9.84		85
4"	9.96	4.76	32.20		12.01	12.01	12.64	4.00	9.84		112
6"	13.98	6.93	42.05	42.87	15.87	15.87	16.50	6.00	11.81	12.01	240
8"	16.73	8.94	49.80	49.49	16.50	16.50	17.13	8.00	13.78	12.01	365
10"	20.08	10.94	58.74	41.61	17.99	17.99	18.62	10.00	15.75	12.01	500
12"	23.23	13.43	69.57	67.24	19.76	19.76	20.39	12.00	17.72	12.01	757
14"	25.75	14.61	75.20	72.32	30.00	30.00	30.63	13.25	19.69	12.01	1050
16"	28.54	16.69	84.84	81.02	32.99	32.99	33.62	15.25	29.92	17.72	1480
18"	31.50	18.58		90.75	35.98	35.98	36.61	17.25		24.02	2040
20"	37.40	20.94		99.92	39.02	39.02	39.76	19.25		24.02	2650
22"	42.83	22.68		106.30	42.99	42.99	43.86	21.25		24.02	3500
24"	42.32	25.08		119.21	45.00	45.00	45.87	23.25		24.02	4260
26"	47.24	26.89		121.06	49.02	49.02	50.00	25.00		24.02	4800
28"	49.21	28.74		128.19	52.99	52.99	54.02	27.00		24.02	5510
30"	52.17	31.26		142.05	55.00	55.00	55.98	29.00		24.02	6300
32"	59.06	33.66		154.72	60.00	60.00	61.14	30.75		24.02	7000
34"	58.66	34.92		153.15	64.02	64.02	65.12	32.75		24.02	7900
36"	62.99	36.77		170.28	67.99	67.99	69.13	34.50		31.89	8900
40"	66.10	40.87		169.09		75.98		38.50		31.89	12800
42"	70.79	43.23		181.50		79.02		40.25		31.89	15000
48"	80.31	48.94		201.57		90.00				31.89	22300



Class 300LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	133	65	481		216	216	232	51	180		54
65	195	82	593		241	241	257	64	200		72
80	218	96	670		283	283	298	76	250		85
100	253	121	818		305	305	321	102	250		112
150	355	176	1068	1089	403	403	419	152	300	305	240
200	425	227	1265	1257	419	419	435	203	350	305	365
250	510	278	1492	1057	457	457	473	254	400	305	500
300	590	341	1767	1708	502	502	518	305	450	305	757
350	654	371	1910	1837	762	762	778	337	500	305	1050
400	725	424	2155	2058	838	838	854	387	760	458	1480
450	800	472		2305	914	914	930	438		610	2040
500	950	532		2538	991	991	1010	489		610	2650
550	1088	576		2700	1092	1092	1114	540		610	3500
600	1075	637		3028	1143	1143	1165	591		610	4260
650	1200	683		3075	1245	1245	1270	635		610	4800
700	1250	730		3256	1346	1346	1372	686		610	5510
750	1325	794		3608	1397	1397	1422	737		610	6300
800	1500	855		3930	1524	1524	1553	781		610	7000
850	1490	887		3890	1626	1626	1654	832		610	7900
900	1600	934		4325	1727	1727	1756	876		810	8900
1000	1679	1038		4295		1930		978		810	12800
1050	1798	1098		4610		2007		1022		810	15000
1200	2040	1243		5120		2286				810	22300

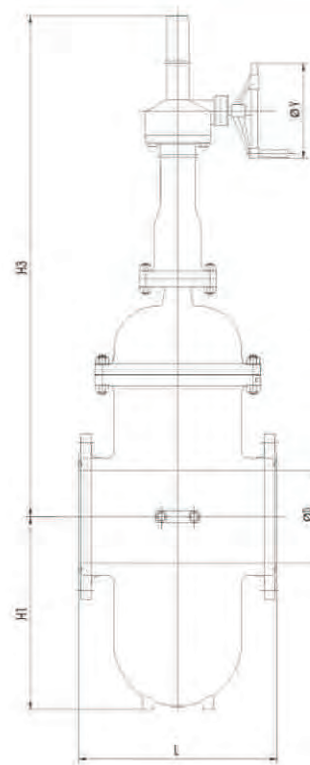
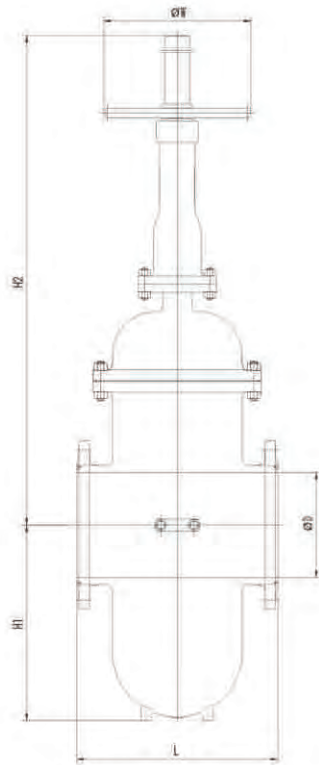


Class 600LB (in)

Size	H1	Travel	H2	H3	L			D	Ø W	Ø v	Weight
					BW	RF	RTJ				
2"	5.24	2.50	21.54		11.50	11.50	11.61	2.00	7.09		66
2-1/2"	7.48	3.15	25.39		12.99	12.99	13.11	2.50	9.84		90
3"	8.07	3.66	28.82		14.02	14.02	14.13	3.00	9.84		110
4"	10.04	4.76	34.09	35.35	17.01	17.01	17.13	4.00	13.78	12.01	156
6"	14.37	6.93	42.13	44.65	22.01	22.01	22.13	6.00	17.72	12.01	296
8"	16.54	8.94	46.77	52.09	25.98	25.98	26.14	8.00	19.69	12.01	640
10"	20.28	10.94	62.01	62.32	30.98	30.98	31.14	10.00	19.69	12.01	900
12"	24.72	13.43	70.08	71.34	32.99	32.99	33.11	12.00	29.92	17.72	1135
14"	26.54	14.61		73.27	35.00	35.00	35.12	13.25		17.72	1700
16"	30.51	16.69		84.29	39.02	39.02	39.13	15.25		24.02	2350
18"	33.86	18.90		95.51	42.99	42.99	43.11	17.25		24.02	2776
20"	37.40	20.87		116.34	47.01	47.01	47.24	19.25		24.02	4210
22"	43.31	22.87		107.48	50.98	50.98	51.38	21.25		24.02	5530
24"	43.82	25.91		127.28	55.00	55.00	55.39	23.25		24.02	4930
26"	88.58	27.28		130.24	57.01	57.01	57.52	25.00		31.89	6010
28"	50.00	28.74		136.81	60.98	60.98	61.50	27.00		31.89	8100
30"	56.46	36.61		145.28	65.00	65.00	65.51	29.00		31.89	7910
32"	56.30	32.80		153.15	70.00	70.00	70.63	30.75		31.89	11500
34"	59.06	34.92		158.66	75.98	75.98	76.61	32.75		31.89	13100
36"	64.65	36.77		172.80	82.01	82.01	82.64	34.50		47.24	15200
40"	67.32	40.87		172.64		94.02		38.50		31.89	18600
42"	79.13	45.47		214.84		95.98		40.25		47.24	20600
48"	80.71	48.94		210.04		110.00				31.89	28500

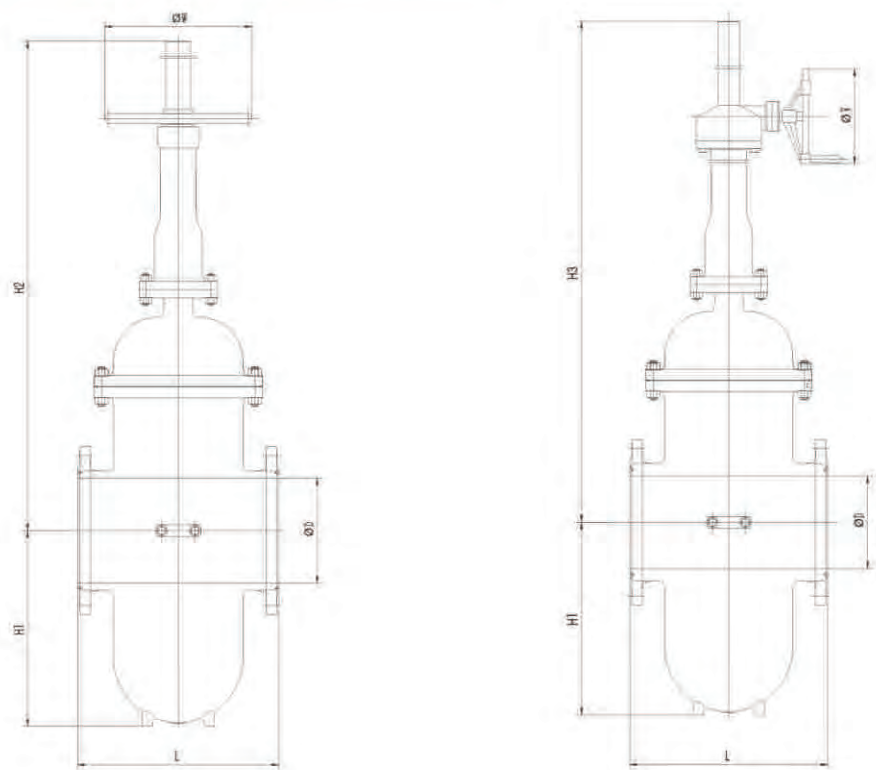
Dimensions

Series GT Through Conduit Gate Valve



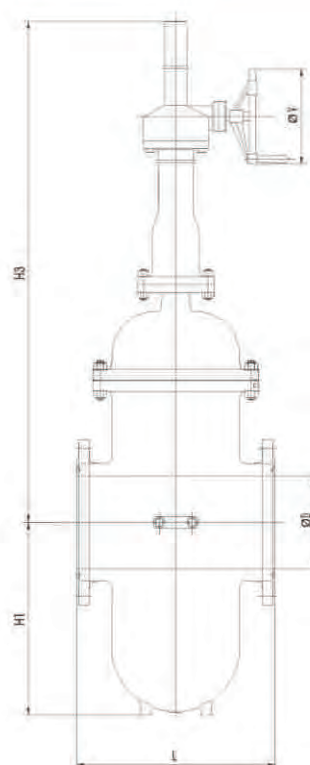
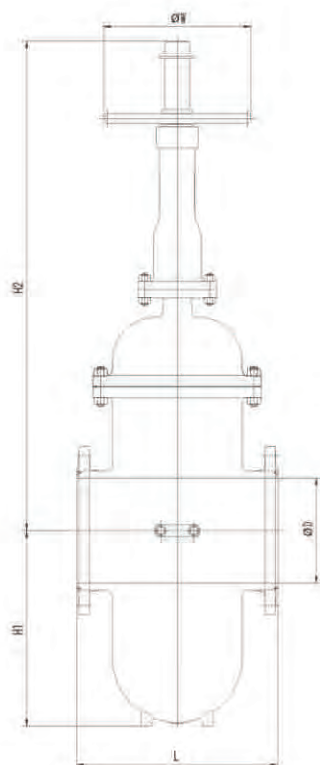
Class 600LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	133	65	547		292	292	295	51	180		66
65	190	80	645		330	330	333	64	250		90
80	205	93	732		356	356	359	76	250		110
100	255	121	866	898	432	432	435	102	350		156
150	365	176	1070	1134	559	559	562	152	450	305	296
200	420	227	1188	1323	660	660	664	203	500	305	640
250	515	278	1575	1583	787	787	791	254	500	305	900
300	628	341	1780	1812	838	838	841	305	760	458	1135
350	674	371		1861	889	889	892	337		458	1700
400	775	424		2141	991	991	994	387		610	2350
450	860	480		2426	1092	1092	1095	438		610	2776
500	950	530		2955	1194	1194	1200	489		610	4210
550	1100	581		2730	1295	1295	1305	540		610	5530
600	1113	658		3233	1397	1397	1407	591		610	4930
650	2250	693		3308	1448	1448	1461	635		810	6010
700	1270	730		3475	1549	1549	1562	686		810	8100
750	1434	803		3690	1651	1651	1664	737		810	7910
800	1430	833		3890	1778	1778	1794	781		810	11500
850	1500	887		4030	1930	1930	1946	832		810	13100
900	1642	934		4389	2083	2083	2099	876		1200	15200
1000	1710	1038		4385		2388		978		810	18600
1050	2010	1155		5457		2438		1022		1200	20600
1200	2050	1243		5335		2794				810	28500



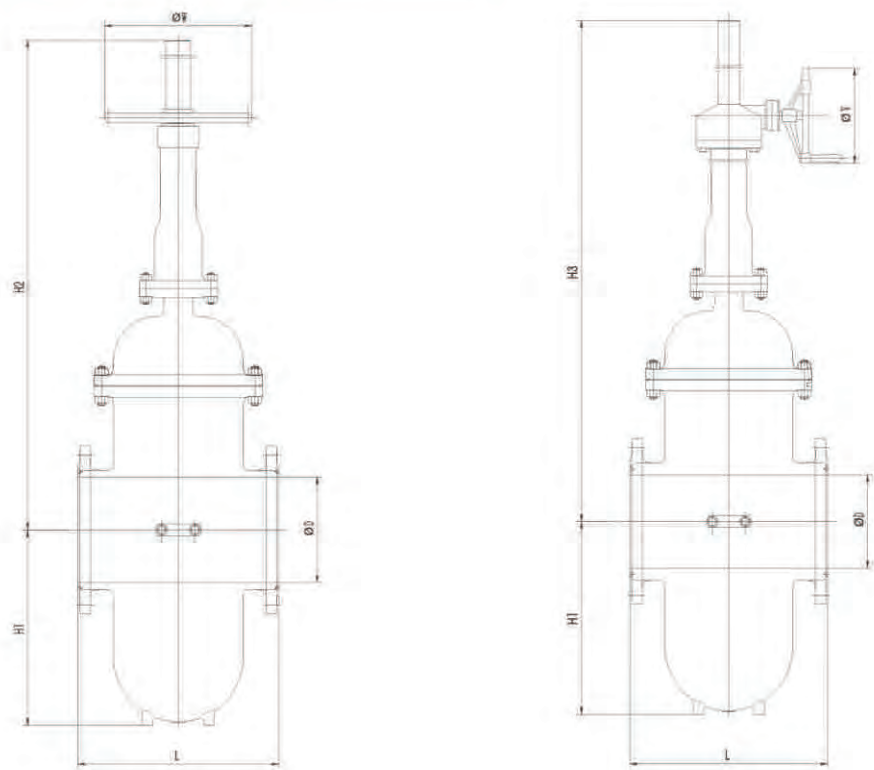
Class 900LB (in)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
2	6.14	2.76	29.33		14.49	14.49	14.61	2.00	9.84		102
2-1/2	6.77	3.23	32.09		16.50	16.50	16.61	2.50	9.84		115
3	7.48	3.66	34.88		15.00	15.00	15.12	3.00	11.81		162
4	11.26	5.00	31.89		17.99	17.99	18.11	4.00	15.75		286
6	14.57	7.01	41.85	47.68	24.02	24.02	24.13	6.00	19.69	17.72	532
8	16.73	8.94	50.20	54.13	29.02	29.02	29.13	8.00	23.62	12.01	970
10	20.28	10.87		61.02	32.99	32.99	33.11	10.00		17.72	1305
12	25.59	13.43		74.13	37.99	37.99	38.11	12.00		24.02	2000
14	30.12	14.17		82.28	40.51	40.51	40.87	12.76		24.02	2600
16	29.72	16.30		83.35	44.49	44.49	44.88	14.76		24.02	3210
18	37.40	18.50		107.09	47.99	47.99	48.50	16.73		31.89	4000
20	41.73	20.79		122.83	52.01	52.01	52.52	18.62		31.89	5120
24	46.85	24.80		150.79	60.98	60.98	61.73	22.52		31.89	9400
26	50.00	27.24		157.48				24.38		31.89	12200
28	53.15	29.13		164.17				26.25		47.24	14800
30	56.69	31.10		170.67	83.00			28.13		47.24	17600
32	60.24	33.27		178.74				30.00		47.24	20000
34	63.39	35.43		188.98				31.88		47.24	23600
36	66.93	37.09		205.31				33.75		47.24	27500



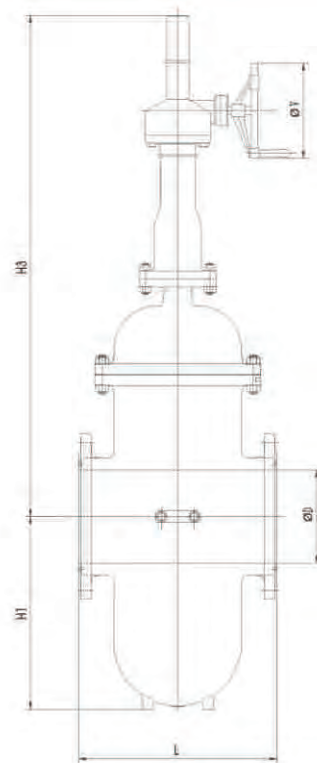
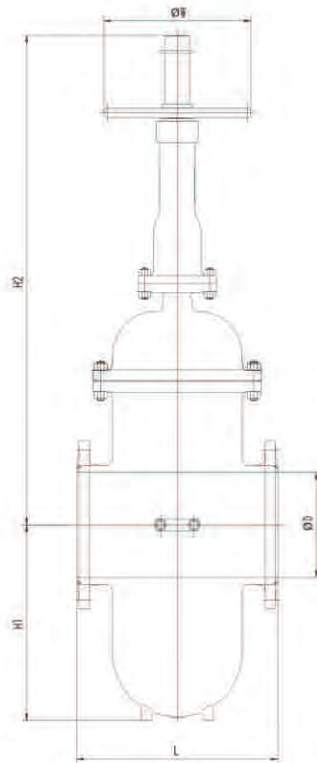
Class 900LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	156	70	745		368	368	371	51	250		102
65	172	82	815		419	419	422	64	250		115
80	190	93	886		381	381	384	76	300		162
100	286	127	810		457	457	460	102	400		286
150	370	178	1063	1211	610	610	613	152	500	458	532
200	425	227	1275	1375	737	737	740	203	600	305	970
250	515	276		1550	838	838	841	254		458	1305
300	650	341		1883	965	965	968	305		610	2000
350	765	360		2090	1029	1029	1038	324		610	2600
400	755	414		2117	1130	1130	1140	375		610	3210
450	950	470		2720	1219	1219	1232	425		810	4000
500	1060	528		3120	1321	1321	1334	473		810	5120
600	1190	630		3830	1549	1549	1568	572		810	9400
650	1270	692		4000				619		810	12200
700	1350	740		4170				667		1200	14800
750	1440	790		4335	2108			714		1200	17600
800	1530	845		4540				762		1200	20000
850	1610	900		4800				810		1200	23600
900	1700	942		5215				857		1200	27500



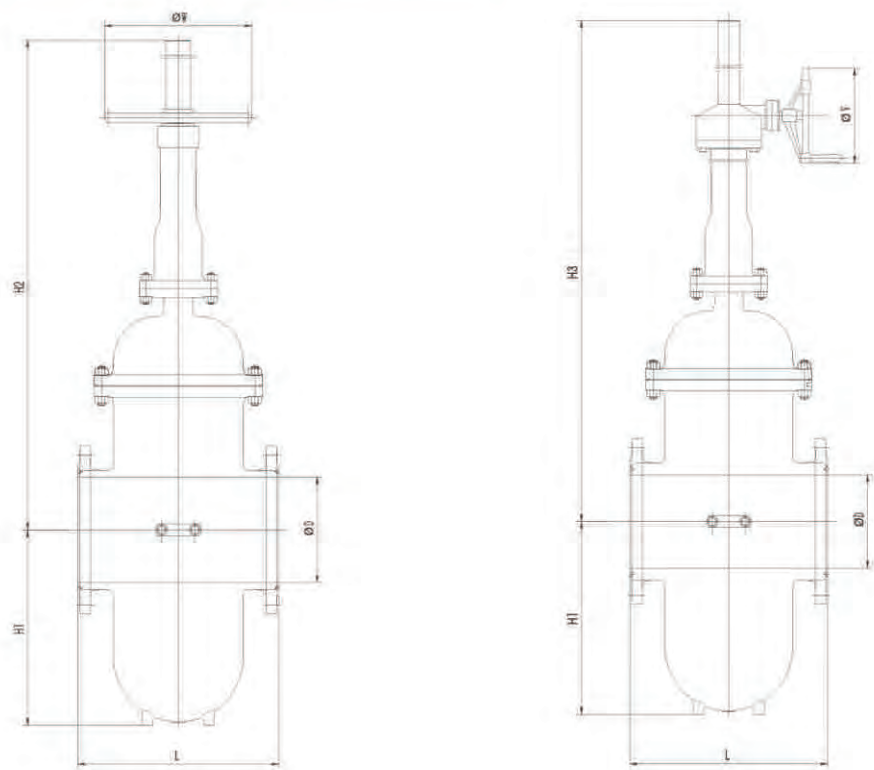
Class 1500LB (in)

Size	H1	Travel	H2	H3	L			D	ϕ W	ϕ v	Weight
					BW	RF	RTJ				
2	6.30	2.99	26.77		14.49	14.49	14.61	2.00	15.75		120
2-1/2	7.09	3.39	28.82		16.50	16.50	16.61	2.50	15.75		200
3	7.95	3.86	30.91		18.50	18.50	18.62	3.00	19.69		260
4	11.26	5.20	33.07		21.50	21.50	21.61	4.00	23.62		380
6	14.96	6.93	45.67	53.94	27.76	27.76	27.99	5.75	31.50	23.62	910
8	19.09	8.94		59.84	32.76	32.76	33.11	7.64		31.50	1520
10	24.02	11.02		69.49	39.02	39.02	39.37	9.49		31.50	2280
12	27.95	13.58		71.85	44.49	44.49	45.12	11.38		31.50	3300
14	31.10	14.37		84.25	49.49	49.49	50.24	12.52		31.50	4600
16	35.04	16.54		93.70	54.49	54.49	55.39	14.25		31.50	5920
18	38.98	18.50		109.45	60.51	60.51	61.38	15.98		31.50	7500
20	42.91	20.94		132.28	65.51	65.51	66.38	17.87		31.50	10600
22	47.05	22.05		140.94				19.69		31.50	14700
24	50.00	23.62		156.30	76.50	76.50	76.50	21.50		47.24	17200
26	53.74	25.28		167.32						47.24	19800
28	56.89	27.17		180.12						47.24	32200
30	60.24	28.86		191.54						47.24	34800
32	63.98	30.71		203.35						47.24	37400
34	67.13	32.76		213.98						47.24	40000
36	70.28	34.88		224.41							42900



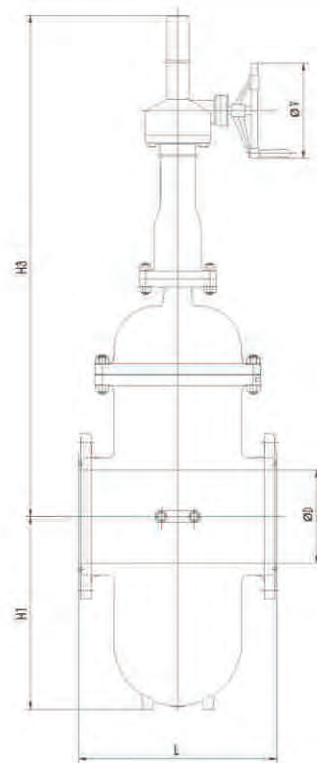
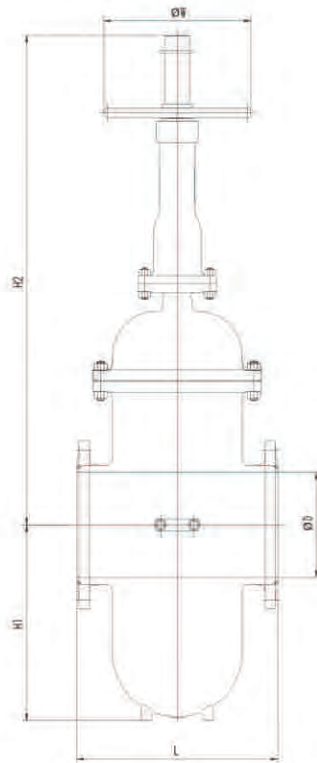
Class 1500LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	160	76	680		368	368	371	51	400		120
65	180	86	732		419	419	422	64	400		200
80	202	98	785		470	470	473	76	500		260
100	286	132	840		546	546	549	102	600		380
150	380	176	1160	1370	705	705	711	146	800	600	910
200	485	227		1520	832	832	841	194		800	1520
250	610	280		1765	991	991	1000	241		800	2280
300	710	345		1825	1130	1130	1146	289		800	3300
350	790	365		2140	1257	1257	1276	318		800	4600
400	890	420		2380	1384	1384	1407	362		800	5920
450	990	470		2780	1537	1537	1559	406		800	7500
500	1090	532		3360	1664	1664	1686	454		800	10600
550	1195	560		3580				500		800	14700
600	1270	600		3970	1943	1943	1972	546		1200	17200
650	1365	642		4250						1200	19800
700	1445	690		4575						1200	32200
750	1530	733		4865						1200	34800
800	1625	780		5165						1200	37400
850	1705	832		5435						1200	40000
900	1785	886		5700							42900



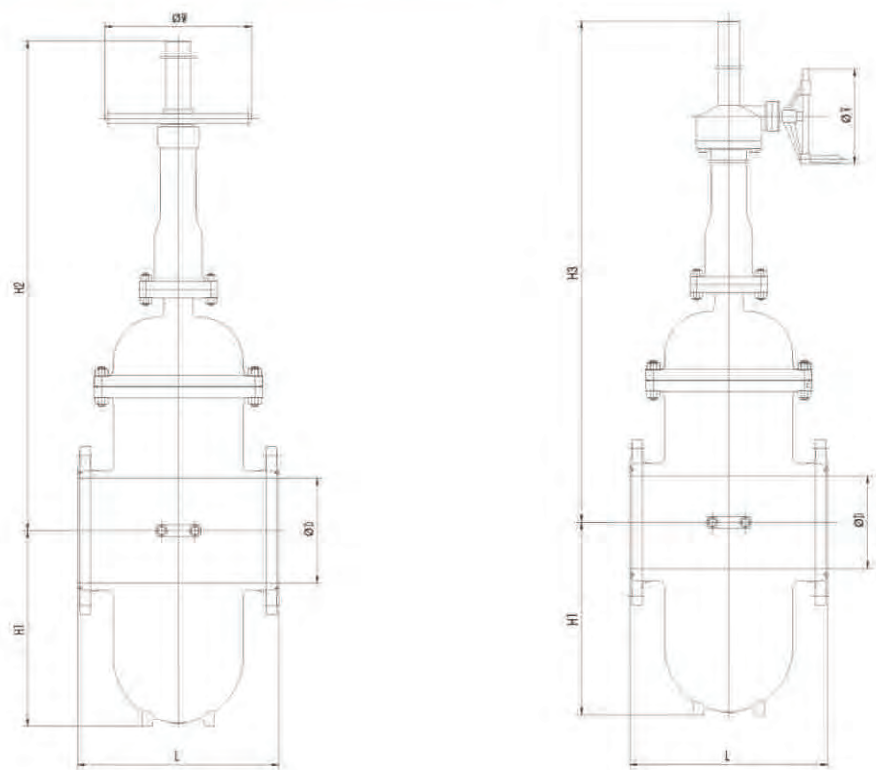
Class 300LB (in)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
2"	5.24	2.50	21.54		8.50	8.50	9.13	2.00	7.09		72
2-1/2"	7.09	2.99	23.43		9.49	9.49	10.12	2.50	9.84		90
3"	7.28	3.58		32.60	11.14	11.14	11.73	3.00		9.84	110
4"	10.31	4.92		36.42	12.01	12.01	12.64	4.00		12.01	158
6"	14.37	7.09		40.75	15.87	15.87	16.50	6.00		12.01	302
8"	17.13	9.25		50.59	16.50	16.50	17.13	8.00		12.01	645
10"	20.08	10.87		57.68	17.99	17.99	18.62	10.00		12.01	905
12"	24.61	13.35		66.34	19.76	19.76	20.39	12.00		17.72	1142
14"	25.67	14.53		72.44	30.00	30.00	30.63	13.25		17.72	1720
16"	29.33	16.57		79.92	32.99	32.99	33.62	15.25		24.02	2365
18"	32.87	18.74		89.57	35.98	35.98	36.61	17.25		24.02	2794
20"	36.42	20.87		96.46	39.02	39.02	39.76	19.25		24.02	4235
22"	41.93	23.31		106.89	42.99	42.99	43.86	21.25		24.02	4695
24"	45.28	25.55		116.14	45.00	45.00	45.87	23.25		24.02	4965



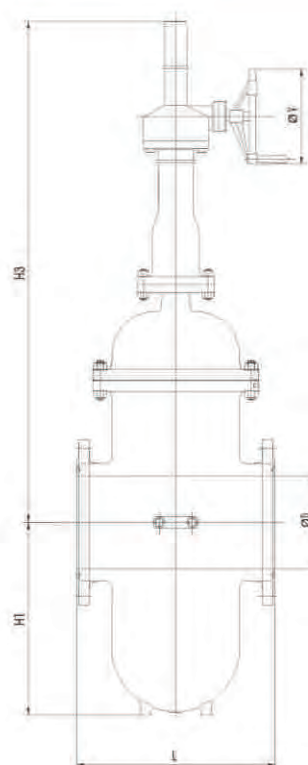
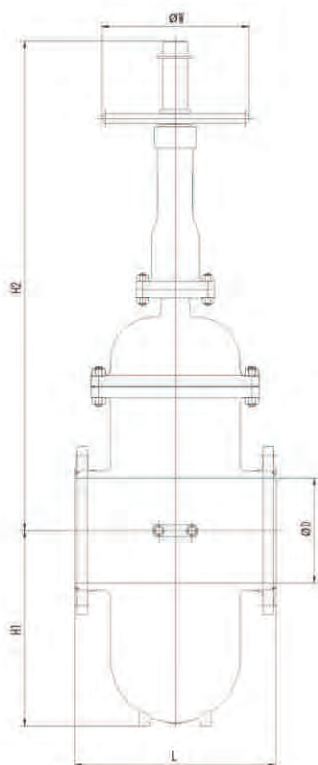
Class 300LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	133	65	547		216	216	232	51	180		72
65	180	76	595		241	241	257	64	250		90
80	185	91		828	283	283	298	76		250	110
100	262	125		925	305	305	321	102		305	158
150	365	180		1035	403	403	419	152		305	302
200	435	235		1285	419	419	435	203		305	645
250	510	276		1465	457	457	473	254		305	905
300	625	339		1685	502	502	518	305		458	1142
350	652	369		1840	762	762	778	337		458	1720
400	745	421		2030	838	838	854	387		610	2365
450	835	476		2275	914	914	930	438		610	2794
500	925	530		2450	991	991	1010	489		610	4235
550	1065	592		2715	1092	1092	1114	540		610	4695
600	1150	649		2950	1143	1143	1165	591		610	4965



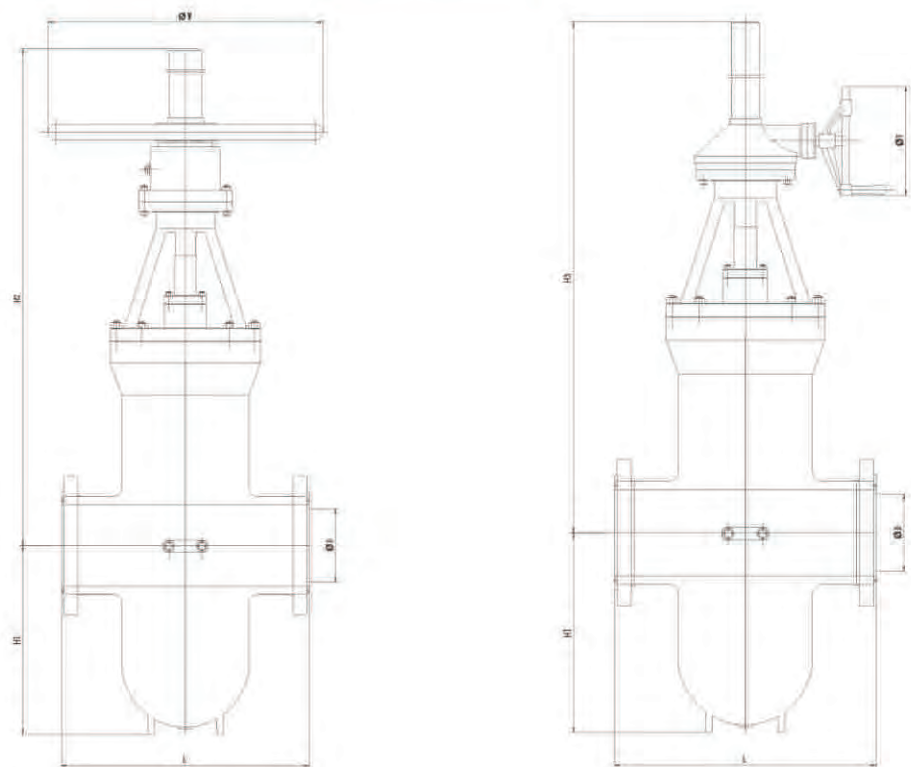
Class 600LB (in)

Size	H1	Travel	H2	H3	L			D	Ø W	Ø v	Weight
					BW	RF	RTJ				
2"	6.30	2.76	21.54		11.50	11.50	11.61	2.00	9.84		120
2-1/2"	7.28	3.35	25.59		12.99	12.99	13.11	2.50	9.84		175
3"	7.68	3.86			14.02	14.02	14.13	3.00		12.01	225
4"	11.10	4.92			17.01	17.01	17.13	4.00		12.01	346
6"	15.16	7.24			22.01	22.01	22.13	6.00		17.72	592
8"	18.31	9.25			25.98	25.98	26.14	8.00		24.02	1030
10"	22.05	11.30			30.98	30.98	31.14	10.00		27.95	1365
12"	26.61	13.78			32.99	32.99	33.11	12.00		24.02	2060
14"	28.82	15.04			35.00	35.00	35.12	13.25		24.02	2680
16"	32.87	17.01			39.02	39.02	39.13	15.25		31.89	3310
18"	36.42	19.29			42.99	42.99	43.11	17.25		31.89	4215
20"	39.96	21.34			47.01	47.01	47.24	19.25		31.89	5210
22"	45.87	23.31			50.98	50.98	51.38	21.25		31.89	9650
24"	47.05	26.26			55.00	55.00	55.39	23.25		31.89	12650



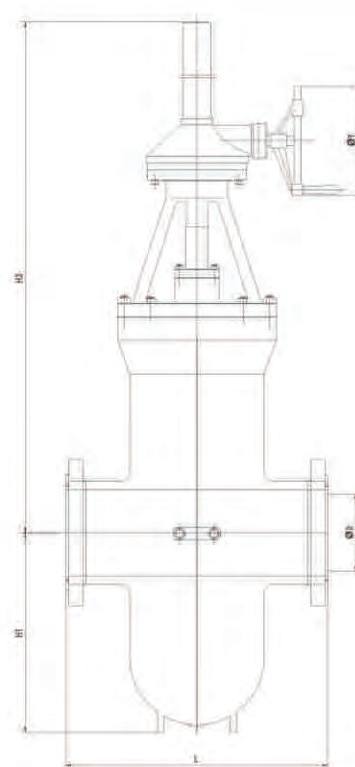
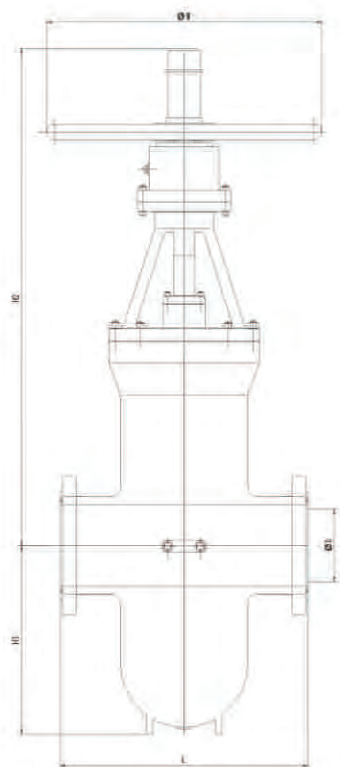
Class 600LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	160	70	547		292	292	295	51	250		120
65	185	85	650		330	330	333	64	250		175
80	195	98		845	356	356	359	76		305	225
100	282	125		1020	432	432	435	102		305	346
150	385	184		1255	559	559	562	152		458	592
200	465	235		1445	660	660	664	203		610	1030
250	560	287		1709	787	787	791	254		710	1365
300	676	350		1935	838	838	841	305		610	2060
350	732	382		1985	889	889	892	337		610	2680
400	835	432		2265	991	991	994	387		810	3310
450	925	490		2545	1092	1092	1095	438		810	4215
500	1015	542		2715	1194	1194	1200	489		810	5210
550	1165	592		2875	1295	1295	1305	540		810	9650
600	1195	667		3325	1397	1397	1407	591		810	12650



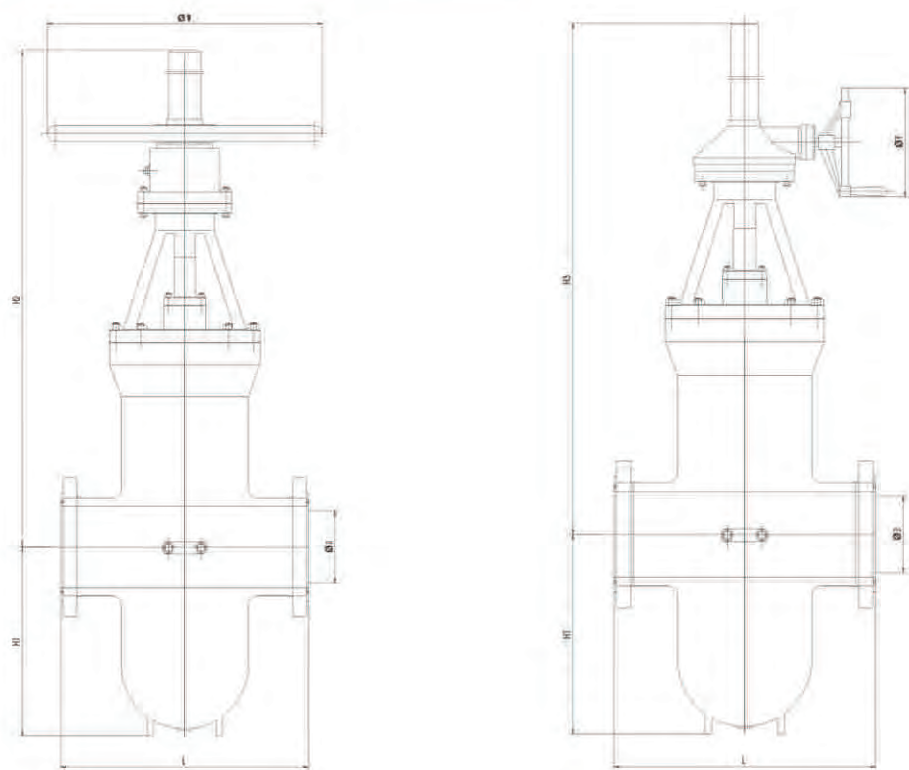
Class 900LB (in)

Size	H1	Travel	H2	H3	L			D	ϕ W	ϕ v	Weight
					BW	RF	RTJ				
2"	6.30	2.95	21.54		14.49	14.49	14.61	2.00	12.01		125
2-1/2"	7.17	3.15	26.77		16.50	16.50	16.61	2.50	12.01		185
3"	8.27	3.62		33.27	15.00	15.00	15.12	3.00		17.72	240
4"	11.26	4.72		38.19	17.99	17.99	18.11	4.00		17.72	360
6"	16.34	7.05		52.95	24.02	24.02	24.13	6.00		24.02	860
8"	19.88	8.94		63.19	29.02	29.02	29.13	8.00		31.50	1380
10"	23.23	10.71		75.00	32.99	32.99	33.11	10.00		31.50	1965
12"	27.95	12.60		84.45	37.99	37.99	38.11	12.00		39.37	3060
14"	30.24	14.76		88.39	40.51	40.51	40.87	12.76		39.37	3880
16"	33.27	15.98		96.85	44.49	44.49	44.88	14.76		47.24	4610
18"	37.20	18.31		107.48	47.99	47.99	48.50	16.73		47.24	6615
20"	40.75	20.28		114.17	52.01	52.01	52.52	18.62		47.24	8215



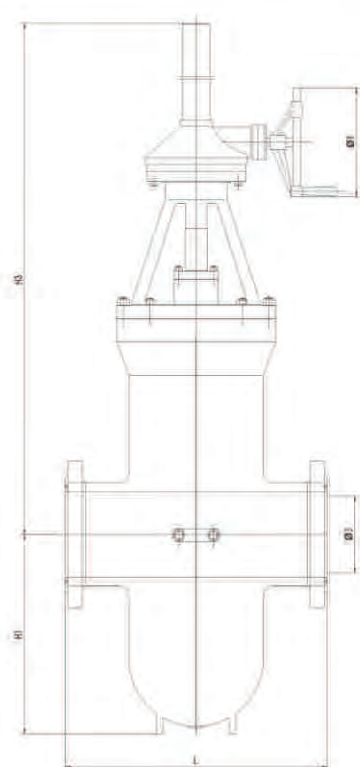
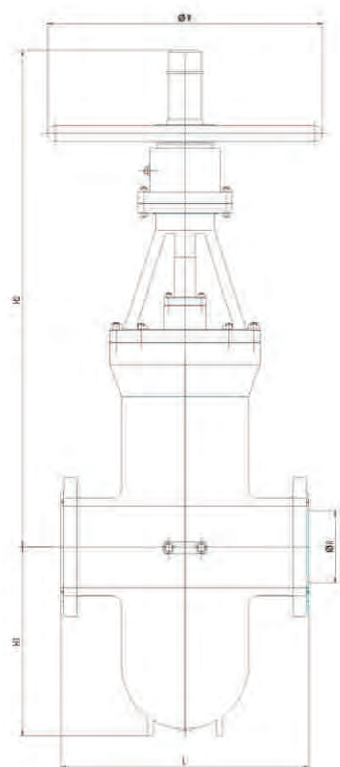
Class 900LB (mm)

Size	H1	Travel	H2	H3	L			D	ϕ W	ϕ v	Weight
					BW	RF	RTJ				
50	160	75	481		368	368	371	51	305		125
65	182	80	680		419	419	422	64	305		185
80	210	92		845	381	381	384	76		458	240
100	286	120		970	457	457	460	102		458	360
150	415	179		1345	610	610	613	152		610	860
200	505	227		1605	737	737	740	203		800	1380
250	590	272		1905	838	838	841	254		800	1965
300	710	320		2145	965	965	968	305		1000	3060
350	768	375		2245	1029	1029	1038	324		1000	3880
400	845	406		2460	1130	1130	1140	375		1200	4610
450	945	465		2730	1219	1219	1232	425		1200	6615
500	1035	515		2900	1321	1321	1334	473		1200	8215



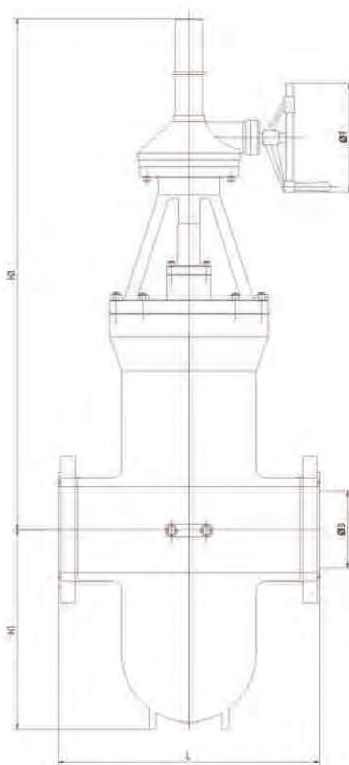
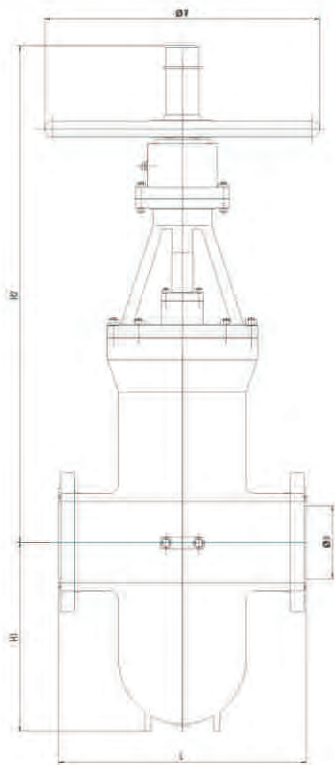
Class 1500LB (in)

Size	H1	Travel	H2	H3	L			D	ϕ W	ϕ v	Weight
					BW	RF	RTJ				
2"	6.30	2.95	21.54		14.49	14.49	14.61	2.00	12.01		130
2-1/2"	7.09	3.15	28.74		16.50	16.50	16.61	2.50	12.01		200
3"	9.06	3.62		33.27	18.50	18.50	18.62	3.00		17.72	260
4"	12.20	4.72		38.19	21.50	21.50	21.61	4.00		24.02	370
6"	17.13	7.05		56.89	27.76	27.76	27.99	5.75		27.95	1160
8"	20.87	8.94		71.06	32.76	32.76	33.11	7.64		31.50	1730
10"	24.41	10.71		80.51	39.02	39.02	39.37	9.49		39.37	2575
12"	29.53	12.60		92.32	44.49	44.49	45.12	11.38		47.24	4060
14"	31.42	14.76		100.20	49.49	49.49	50.24	12.52		47.24	5030
16"	33.46	15.98		108.66	54.49	54.49	55.39	14.25		47.24	5990
18"	36.42	18.31		115.35	60.51	60.51	61.38	15.98		47.24	8600
20"	39.37	20.28		120.08	65.51	65.51	66.38	17.87		47.24	11220



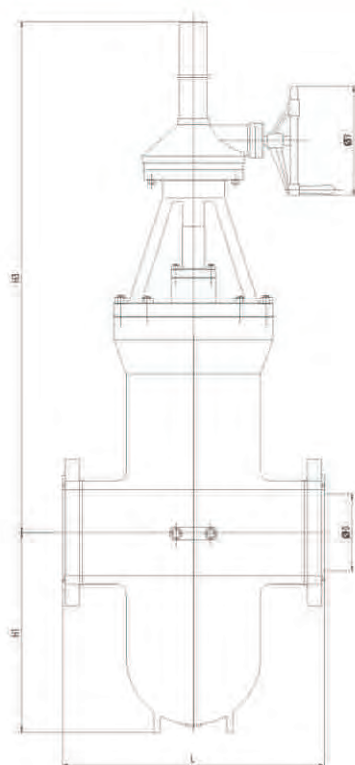
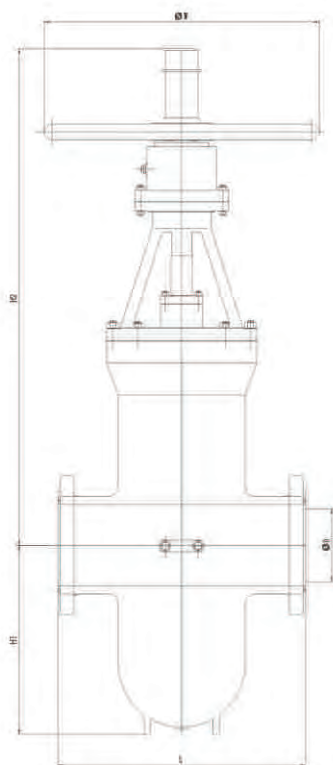
Class 1500LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	160	75	481		368	368	371	51	305		130
65	182	80	680		419	419	422	64	305		200
80	210	92		845	381	381	384	76		458	260
100	286	120		970	457	457	460	102		458	370
150	415	179		1345	610	610	613	152		610	1160
200	505	227		1605	737	737	740	203		800	1730
250	590	272		1905	838	838	841	254		800	2575
300	710	320		2145	965	965	968	305		1000	4060
350	768	375		2245	1029	1029	1038	324		1000	5030
400	845	406		2460	1130	1130	1140	375		1200	5990
450	945	465		2730	1219	1219	1232	425		1200	8600
500	1035	515		2900	1321	1321	1334	473		1200	11220



Class 2500LB (in)

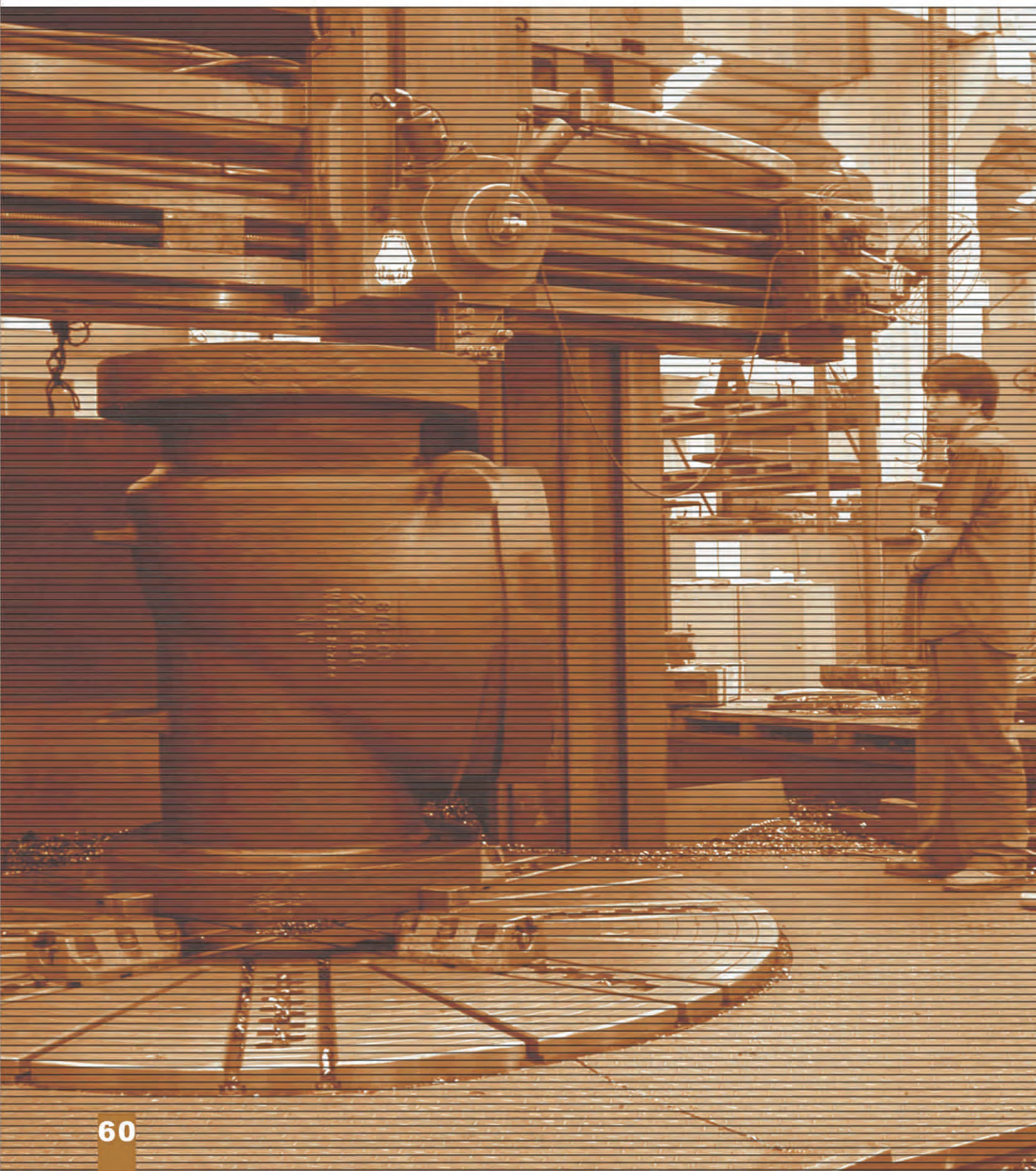
Size	H1	Travel	H2	H3	L			D	ϕ W	ϕ v	Weight
					BW	RF	RTJ				
2"	6.69	3.07	21.54		17.76	17.76	17.87	1.73	12.01		150
2-1/2"	7.28	3.23	29.53		20.00	20.00	20.24	2.13	12.01		260
3"	9.25	3.74		33.86	22.76	22.76	22.99	2.52		24.02	365
4"	13.58	4.92		40.16	26.50	26.50	26.89	3.50		31.50	1120
6"	18.90	7.48		62.01	35.98	35.98	36.50	5.24		31.50	1785
8"	21.26	9.65		78.15	40.24	40.24	40.87	7.13		39.37	2615
10"	25.59	11.02		84.45	50.00	50.00	50.87	8.86		47.24	4045
12"	30.91	12.80		96.46	55.98	55.98	56.89	10.51		47.24	5025



Class 2500LB (mm)

Size	H1	Travel	H2	H3	L			D	φ W	φ v	Weight
					BW	RF	RTJ				
50	170	78	481		451	451	454	44	305		150
65	185	82	750		508	508	514	54	305		260
80	235	95		860	578	578	584	64		610	365
100	345	125		1020	673	673	683	89		800	1120
150	480	190		1575	914	914	927	133		800	1785
200	540	245		1985	1022	1022	1038	181		1000	2615
250	650	280		2145	1270	1270	1292	225		1200	4045
300	785	325		2450	1422	1422	1445	267		1200	5025

Series SF Full Opening Check Valve



Neway Full Opening Check Valve are designed in accordance with API 6D, it is available in class rating from 150~2500lb size 2"~48" With full opening design, this series of check valve can be capable for pig ball cleaning service. To prevent potential water hammer

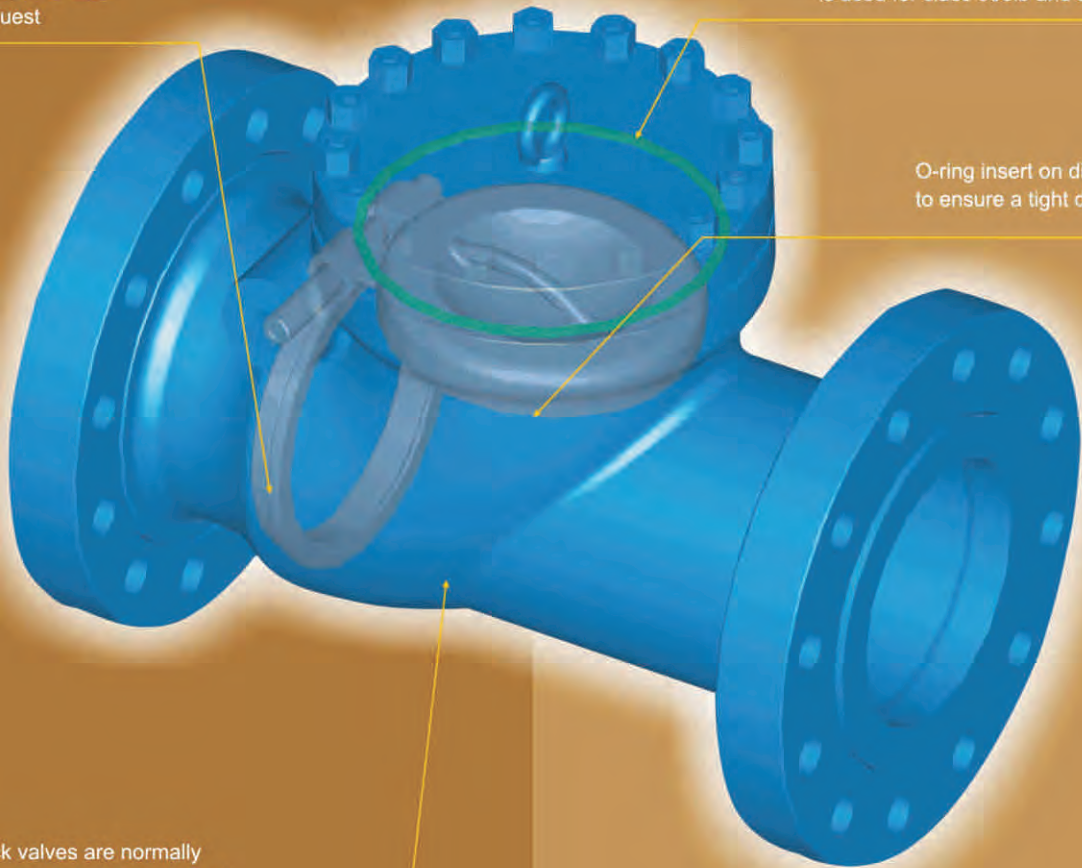
damage caused by disc closing, a dashpot device can be assembled to control the disc closing time. The function of a check valve is to prevent reversal of flow automatically and promptly and this type of valves are usually supplemented by gate, ball or other valves.

Seat Ring is tight seal welded into valve body, however threaded seat ring can be also designed upon request

Body gasket:
For class 150~600lb is designed with spiral wound gasket with 316 inner ring Ring joint is used for class 900lb and above

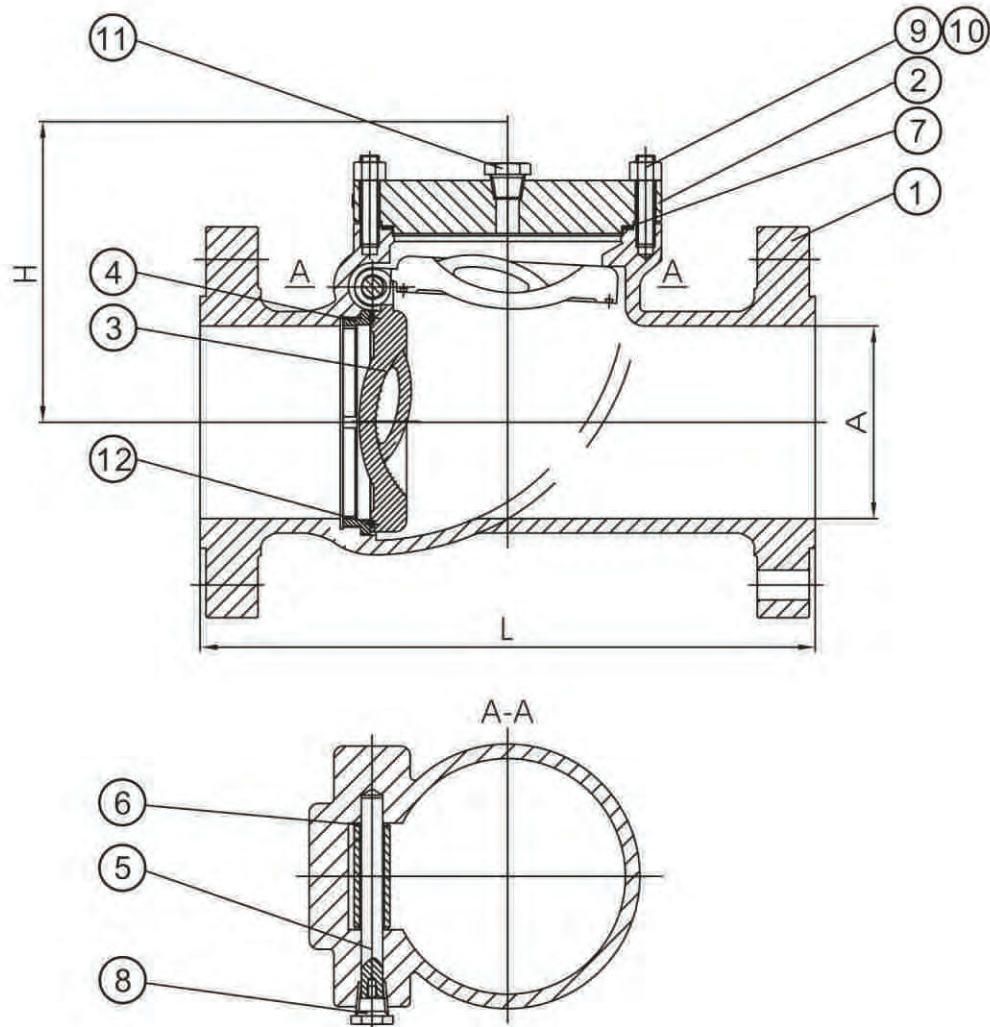
O-ring insert on disc sealing face to ensure a tight disc/seat seal

Drain Tapping
Neway swing check valves are normally provided with boss at location G, additional bosses can be provided upon request

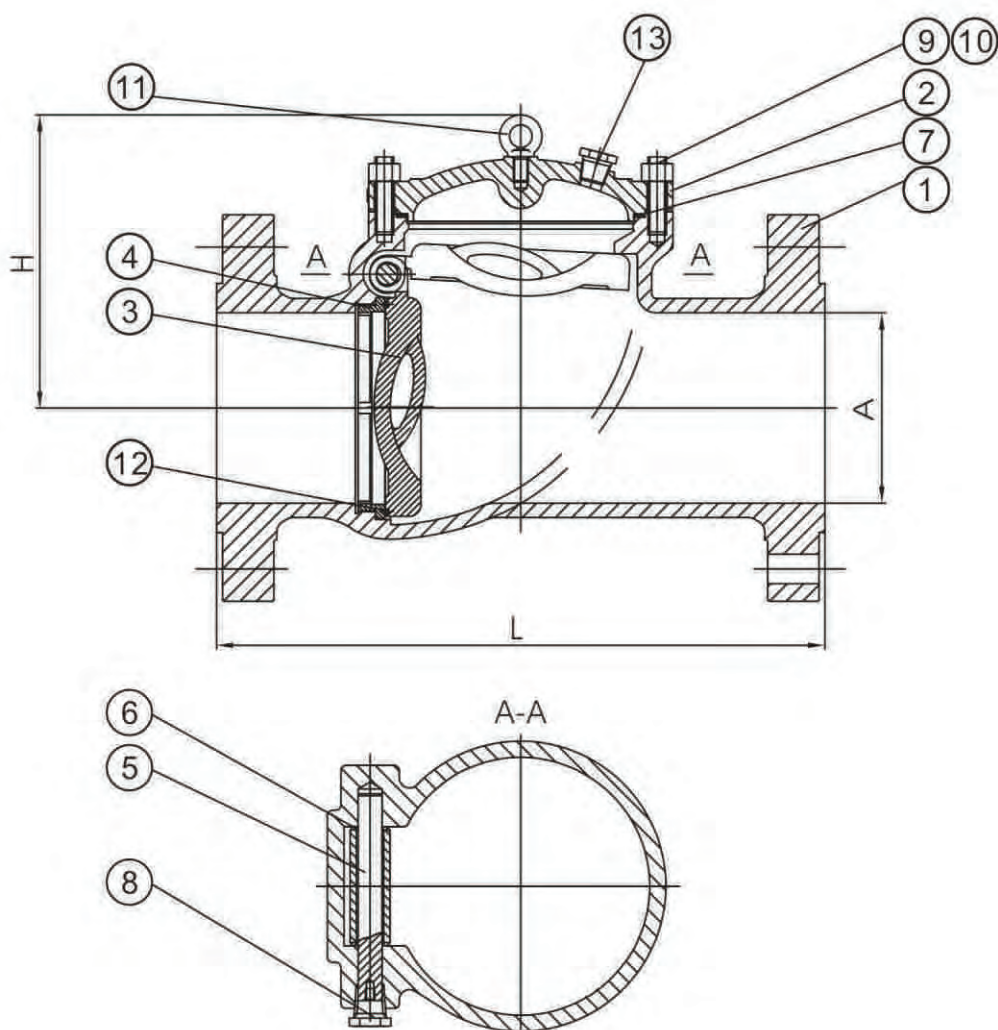


- **Basic Design:** API 6D; ASME B16.34
- **Wall thickness:** ASME B16.34
- **End flange:** ASME B16.5, ASME B16.47
- **Butt weld ends:** ASME B16.25
- **Sour Service:** NACE MR 0175

This is a typical NEWAY series SF full opening check valve section drawing which is only for demonstrating of basic design features. The actual product design may be slightly different from this sample drawing due to its size and pressure class.



No.	Part	Standard	Sour Service	Low Temperature Service
1	BODY	ASTMA216-WCB	ASTMA216-WCB	ASTMA352-LCB
2	BONNET	ASTMA105	ASTMA105	ASTMA350-LF2
3	DISC	ASTMA216-WCB	ASTMA216-WCB	ASTMA352-LCB
4	SEAT RING	ASTMA105N	ASTMA105N	ASTMA350-LF2
5	HINGE PIN	ASTMA276-410	ASTMA276-410	ASTMA182-F316
6	WASHER	ASTMA276-420	ASTMA276-420	ASTMA182-F316
7	GASKET	304SS+GRAPHITE	304SS+GRAPHITE	316SS+GRAPHITE
8	PLUG	AISI 1020	AISI 1020	ASTMA276-316
9	STUD	ASTMA193-B7	ASTMA193-B7M	ASTMA320-L7M
10	NUT	ASTMA194-2H	ASTMA194-2HM	ASTMA194-7M
11	PLUG	AISI 1020	AISI 1020	ASTMA276-316
12	O-RING	NBR	NBR	NBR



No.	Part	Standard	Sour Service	Low Temperature Service
1	BODY	ASTMA216-WCB	ASTMA216-WCB	ASTMA352-LCB
2	BONNET	ASTMA216-WCB	ASTMA216-WCB	ASTMA352-LCB
3	DISC	ASTMA216-WCB	ASTMA216-WCB	ASTMA352-LCB
4	SEAT RING	ASTMA105N	ASTMA105N	ASTMA350-LF2
5	HINGE PIN	ASTMA276-410	ASTMA276-410	ASTMA182-F316
6	WASHER	ASTMA276-420	ASTMA276-420	ASTMA182-F316
7	GASKET	304SS+GRAPHITE	304SS+GRAPHITE	316SS+GRAPHITE
8	PLUG	AISI 1020	AISI 1020	ASTMA276-316
9	STUD	ASTMA193-B7	ASTMA193-B7M	ASTMA320-L7M
10	NUT	ASTMA194-2H	ASTMA194-2HM	ASTMA194-7M
11	HOOK SCREW	AISI 1025	AISI 1025	AISI 1025
12	O-RING	NBR	NBR	NBR
13	PLUG	AISI 1020	AISI 1020	ASTMA276-316

Class 150LB

Size		A		H		L						Weight	
						BW		RF		RTJ			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	2	51	5.43	138	7.99	203	7.99	203	8.50	216	19	14
2-1/2	65	2.5	64	5.71	145	8.50	216	8.50	216	9.02	229		
3	80	3	76	5.94	151	9.49	241	9.49	241	10.00	254	30	22
4	100	4	102	6.81	173	11.50	292	11.50	292	12.01	305	42	30
6	150	6	152.4	11.42	290	14.02	356	14.02	356	14.49	368	84	72
8	200	8	203	13.07	332	19.49	495	19.49	495	20.00	508	150	138
10	250	10	254	15.98	406	24.49	622	24.49	622	25.00	635	230	186
12	300	12	305	18.11	460	27.52	699	27.52	699	27.99	711	332	262
14	350	13.25	337	19.61	498	30.98	787	30.98	787	31.50	800	368	336
16	400	15.25	387	22.72	577	34.02	864	34.02	864	34.49	876	490	425
18	450	17.25	438	23.03	585	38.50	978	38.50	978	39.02	991	632	542
20	500	19.25	489	25.04	636	38.50	978	38.50	978	39.02	991	846	755
22	550	21.25	540	27.99	711	42.01	1067	42.01	1067	42.52	1080	1370	
24	600	23.25	591	30.04	763	50.98	1295	50.98	1295	51.50	1308	1370	1190
26	650	25.00	635	31.65	804	50.98	1295	50.98	1295	*	*	1450	1350
28	700	27.00	686	38.11	968	57.01	1448	57.01	1448	*	*		
30	750	29.00	737	38.19	970	60.00	1524	60.00	1524	*	*	2120	1830
32	800	30.75	781	40.43	1027	*	*	*	*	*	*		
34	850	32.75	832			*	*	*	*	*	*		
36	900	34.50	876	48.43	1230	77.01	1956	77.01	1956	*	*	2980	2680
38	950	36.50	927			*	*	*	*	*	*		
40	1000	38.50	978			*	*	*	*	*	*	4870	4170
42	1050	40.25	1022	54.29	1379	*	*	*	*	*	*		
44	1100	*	*			*	*	*	*	*	*		
46	1150	*	*			*	*	*	*	*	*		
48	1200	46	1168	62.74	1593.5	*	*	*	*	*	*	7950	6730
50	1250	*	*	64.49	1638	*	*	*	*	*	*		
52	1300	*	*			*	*	*	*	*	*		
54	1350	51.75	1314			*	*	*	*	*	*		

* Upon Request

"Flanges up to 24 in. (600 mm) (except 22 in. (550 mm)) in accordance with ASME B16.5; 22 in. (550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."

Class 300LB

Size		A		H		L						Weight	
						BW		RF		RTJ			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2	51	5.71	145	10.51	267	10.51	267	11.14	283	22	19
2-1/2	65	2.5	64	6.14	156	11.50	292	11.50	292	12.13	308		
3	80	3	76	7.40	188	12.52	318	12.52	318	13.11	333	42	30
4	100	4	102	8.39	213	14.02	356	14.02	356	14.61	371	71	52
6	150	6	152.4	11.10	282	17.52	445	17.52	445	18.11	460	127	102
8	200	8	203	12.32	313	20.98	533	20.98	533	21.61	549	212	187
10	250	10	254	16.14	410	24.49	622	24.49	622	25.12	638	297	258
12	300	12	305	18.86	479	27.99	711	27.99	711	28.62	727	370	320
14	350	13.25	337	22.28	566	32.99	838	32.99	838	33.62	854	490	410
16	400	15.25	387	25.20	640	34.02	864	34.02	864	34.61	879	615	530
18	450	17.25	438	26.50	673	38.50	978	38.50	978	39.13	994	735	682
20	500	19.25	489	28.66	728	40.00	1016	40.00	1016	40.75	1035	980	790
22	550	21.25	540			44.02	1118	44.02	1118	44.88	1140		
24	600	23.25	591	33.70	856	52.99	1346	52.99	1346	53.86	1368	1815	1605
26	650	25.00	635	37.28	947	52.99	1346	52.99	1346	54.02	1372	2115	2005
28	700	27.00	686	41.57	1056	59.02	1499	59.02	1499	60.00	1524		
30	750	29.00	737	44.84	1139	62.76	1594	62.76	1594	63.74	1619	2460	2130
32	800	30.75	781			*	*	*	*	*	*		
34	850	32.75	832			*	*	*	*	*	*		
36	900	34.50	876	51.89	1318	82.01	2083	82.01	2083	*	*	4730	4100
38	950	36.50	927			*	*	*	*	*	*		
40	1000	38.50	978			*	*	*	*	*	*	6780	59302
42	1050	40.25	1022			*	*	*	*	*	*		
44	1100	*	*			*	*	*	*	*	*		
46	1150	*	*			*	*	*	*	*	*		
48	1200	46	1168			*	*	*	*	*	*	13900	12100
50	1250	*	*			*	*	*	*	*	*		
52	1300	*	*			*	*	*	*	*	*		
54	1350	51.75	1314			*	*	*	*	*	*		

* Upon Request
"Flanges up to 24 in. (600 mm) (except 22 in. (550 mm)) in accordance with ASME B16.5; 22 in. (550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."

Class 600LB

Size		A		H		L						Weight	
						BW		RF		RTJ			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	2	51	5.98	152	11.50	292	11.50	292	11.61	295	36	28
2-1/2	65	2.5	64	7.36	187	12.99	330	12.99	330	13.11	333		
3	80	3	76	7.60	193	14.02	356	14.02	356	14.13	359	61	50
4	100	4	102	8.50	216	17.01	432	17.01	432	17.13	435	116	90
6	150	6	152.4	12.83	326	22.01	559	22.01	559	22.13	562	217	182
8	200	8	203	13.58	345	26.00	660.4	26.00	660.4	26.14	664	420	360
10	250	10	254	16.10	409	30.98	787	30.98	787	31.14	791	570	460
12	300	12	305	20.16	512	32.99	838	32.99	838	33.11	841	788	665
14	350	13.25	337	24.92	633	35.00	889	35.00	889	35.12	892	1020	865
16	400	15.25	387	25.00	635	39.00	990.6	39.00	990.6	39.13	994	1440	1200
18	450	17.25	438	27.95	710	42.99	1092	42.99	1092	43.11	1095		1430
20	500	19.25	489	30.00	762	47.01	1194	47.01	1194	47.24	1200	2600	2230
22	550	21.25	540			50.98	1295	50.98	1295	51.38	1305		
24	600	23.25	591	39.74	1009.5	55.00	1397	55.00	1397	55.39	1407	3600	3085
26	650	25.00	635	40.63	1032	57.01	1448	57.01	1448	57.52	1461		4310
28	700	27.00	686	45.83	1164	62.99	1600	62.99	1600	63.50	1613		
30	750	29.00	737	42.87	1089	65.00	1651	65.00	1651	65.51	1664		5420
32	800	30.75	781	46.46	1180	*	*	*	*	*	*		
34	850	32.75	832			*	*	*	*	*	*		
36	900	34.50	876	58.07	1475	82.01	2083	82.01	2083	*	*		9600

* Upon Request

"Flanges up to 24 in. (600 mm) (except 22 in. (550 mm)) in accordance with ASME B16.5; 22 in. (550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."

Class 900LB

Size		A		H		L						Weight	
						BW		RF		RTJ			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2	51			14.49	368	14.49	368	14.61	371		
2-1/2	65	2.5	64	12.68	322	16.50	419	16.50	419	16.61	422		
3	80	3	76	9.76	248	15.00	381	15.00	381	15.12	384	82	68
4	100	4	102	11.65	296	17.99	457	17.99	457	18.11	460	160	135
6	150	6	152.4	14.65	372	24.02	610	24.02	610	24.13	613	272	215
8	200	8	203	19.02	483	29.02	737	29.02	737	29.13	740	548	446
10	250	10	254	22.44	570	32.99	838	32.99	838	33.11	841	944	840
12	300	12	305	24.72	628	37.99	965	37.99	965	38.11	968	1560	1370
14	350	12.75	324	26.73	679	40.51	1029	40.51	1029	40.87	1038	1660	1440
16	400	14.75	375	29.72	755	44.49	1130	44.49	1130	44.88	1140	2060	1780
18	450	16.75	425	32.24	819	47.99	1219	47.99	1219	48.50	1232	3020	2340
20	500	18.625	473	37.83	961	52.01	1321	52.01	1321	52.52	1334	3750	2900
22	550	20.625	524			*	*	*	*	*	*		
24	600	22.50	572	44.61	1133	60.98	1549	60.98	1549	61.73	1568	5400	4210
26	650	24.38	619			*	*	*	*	*	*		
28	700	26.25	667			*	*	*	*	*	*		
30	750	28.13	714			*	*	*	*	*	*		
32	800	30.00	762			*	*	*	*	*	*		
34	850	31.88	810			*	*	*	*	*	*		
36	900	33.75	857			*	*	*	*	*	*		

* Upon Request

*Flanges up to 24 in. (600 mm) (except 22 in. (550 mm)) in accordance with ASME B16.5; 22 in. (550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."

Class 1500LB

Size		A		H		L						Weight	
						BW		RF		RTJ			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ib	kg
2	50	2	51	7.24	184	14.49	368	14.49	368	14.61	371	76	62
2-1/2	65	2.5	64			16.50	419	16.50	419	16.61	422		
3	80	3	76	11.22	285	18.50	470	18.50	470	18.62	473	128	105
4	100	4	102	13.62	346	21.50	546	21.50	546	21.61	549	230	205
6	150	5.75	146	20.08	510	27.76	705	27.76	705	27.99	711	506	456
8	200	7.63	194	23.62	600	32.76	832	32.76	832	33.11	841	942	843
10	250	9.5	241	29.29	744	39.02	991	39.02	991	39.37	1000	1750	1500
12	300	11.38	289	31.22	793	44.49	1130	44.49	1130	45.12	1146	2350	2020
14	350	12.5	318	33.46	850	49.49	1257	49.49	1257	50.24	1276	2950	2400
16	400	14.25	362	37.87	962	54.49	1384	54.49	1384	55.39	1407	3600	3015
18	450	*	*			60.51	1537	60.51	1537	61.38	1559	5500	4680
20	500	*	*			65.51	1664	65.51	1664	66.38	1686	6800	5600
22	550	*	*			*	*	*	*	*	*		
24	600	*	*			76.50	1943	76.50	1943	77.64	1972	10150	8150
26	650	*	*			*	*	*	*	*	*		
28	700	*	*			*	*	*	*	*	*		

* Upon Request

"Flanges up to 24 in. (600 mm) (except 22 in. (550 mm)) in accordance with ASME B16.5; 22 in. (550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."

Class 2500LB

Size		A		H		L						Weight	
						BW		RF		RTJ			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.75	44	12.60	320	17.76	451	17.76	451	17.87	454	145	145
2-1/2	65	2.13	54			20.00	508	20.00	508	20.24	514		
3	80	2.5	64	15.63	397	22.76	578	22.76	578	22.99	584	260	260
4	100	3.5	89	17.99	457	26.50	673	26.50	673	26.89	683	480	480
6	150	5.25	133	22.40	569	35.98	914	35.98	914	36.50	927	1020	1020
8	200	7.13	181	23.94	608	40.24	1022	40.24	1022	40.87	1038	1700	1700
10	250	8.88	225	26.81	681	50.00	1270	50.00	1270	50.87	1292	3110	3110
12	300	10.5	267	30.24	768	55.98	1422	55.98	1422	56.89	1445	3700	3700
14	350	*	*			*	*	*	*	*	*		
16	400	*	*			*	*	*	*	*	*		
18	450	*	*			*	*	*	*	*	*		
20	500	*	*			*	*	*	*	*	*		
22	550	*	*			*	*	*	*	*	*		
24	600	*	*			*	*	*	*	*	*		
26	650	*	*			*	*	*	*	*	*		
28	700	*	*			*	*	*	*	*	*		

* Upon Request
"Flanges up to 24 in. (600 mm) (except 22 in. (550 mm)) in accordance with ASME B16.5; 22 in. (550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."

Seat

Properties		Nylon	Teflon (unfilled)	PEEK	Delrin	Polyphenylene
Temperature Range °F		-30~200	-100~425	-60~500	-50~180	-50~750
Pressure Rating		900~1500	150~600	150~1500	150~1500	150~300
Mechanical Property	Hardness	D75	D58	D85	R-120	D80
	Tensile Strength (psi)	8700 (min)	2100~2400	11000(min)	6600~7500 (min)	2000~2350 (min)
	Elongation (%)	250~290	250	30 (min)	220	275~310
Physical Property	Specific Gravity	1.04	2.2	1.3	1.41	1.9~2.1
	Water Absorption (%)	0.2	<0.01	0.18	0.15	0.1~0.2
	Radiation	5*10 ⁶ RAD	10 ⁴ RAD	10 ⁹ RAD	10 ⁷ RAD	9*10 ⁶ RAD
Service Application		High pressure & Low temperature service	Chemical & Cryogenic service	High pressure & temperature service with steam in radiation environment	High pressure & Low temperature service	High temperature & High Corrosion service

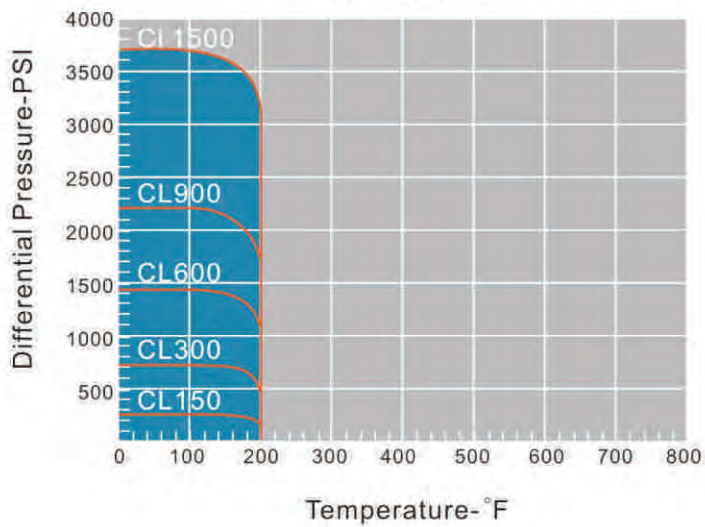
Sealing

Type	Viton	EPDM	25% Glass Filled PTFE	NBR	Buna.N
Temperature range °F	-20~400	-60~500	-328~500	-50~300	-30~250
Specific Gravity	1.85	---	2.24	1.2	1.31
Hardness	D75	D90	D65	D50	D90

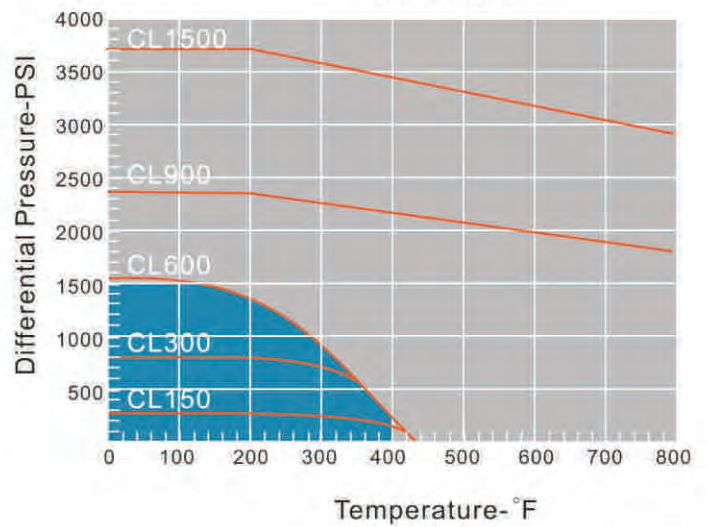
Gasket

Type	Flexible Graphite	Spiral Wound 316+Graphite	Spiral Wound 316+PTFE
Temperature range °F	-328~500	-328~500	-328~500
Service Application	100% Fire-safe	100% Fire-safe	Cryogenic High Corrosion
Hardness	0~14	0~14	0~14

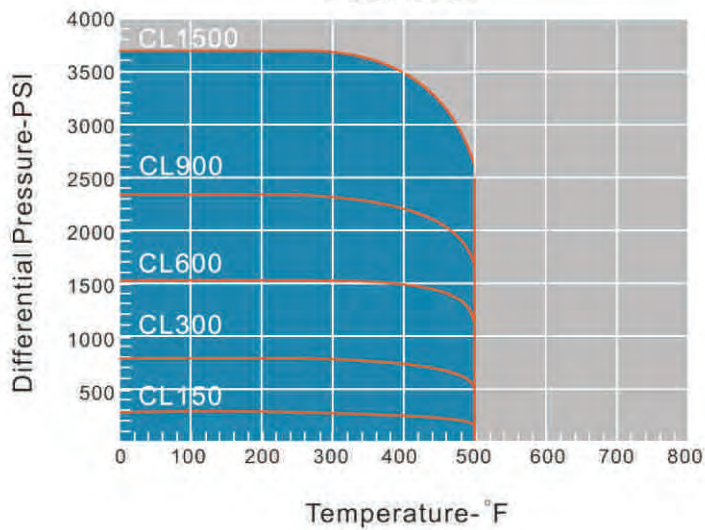
Nylon Seats



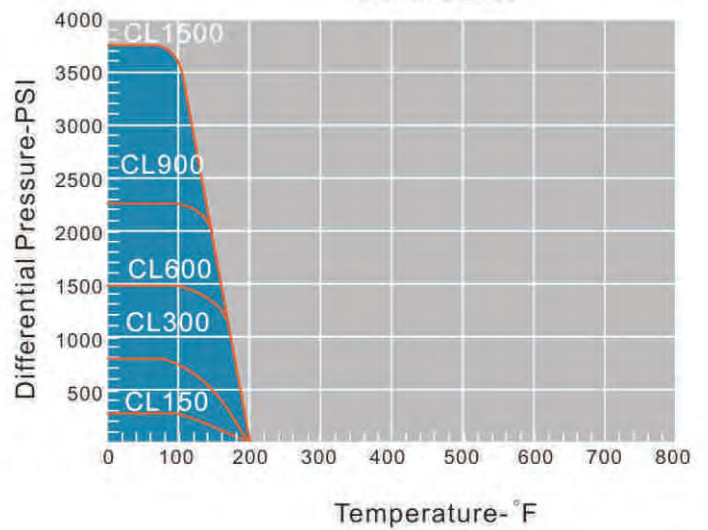
Teflon Seats



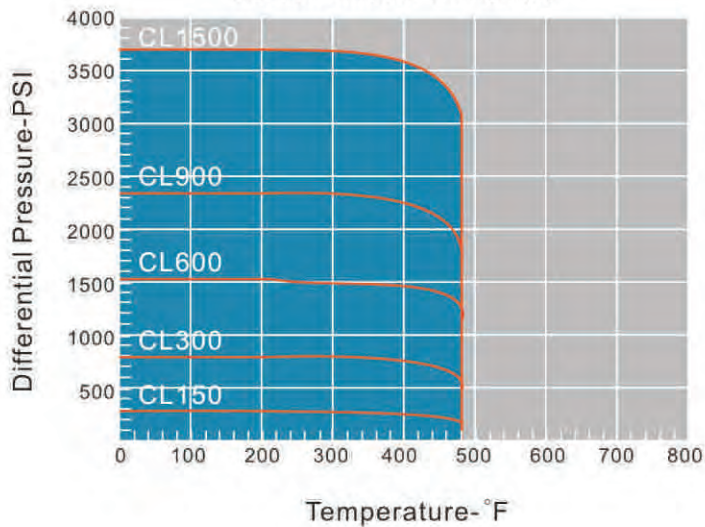
PEEK Seats



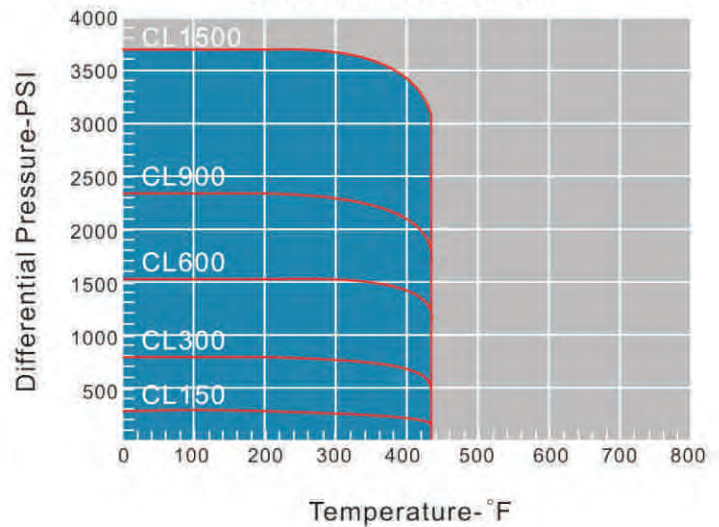
Delrin Seats



Carbon-filled PTFE Seats



Glass-filled PTFE Seats



NEWAY Factory

NEWAY Headquarters

Covers Area: 33,000sqm
Building Area : 25,020sqm

Founded in 2004



NEWAY Huashan Plant

Main Product: Ball & Butterfly Valve
Work shop: 21,000sqm
Office: 4,620sqm

Founded in 2003



NEWAY Taishan Plant

Main Product: Gate Valve, Globe Valve, Check Valve, Forged Steel Valve
Covers Area: 160,000sqm (1st Phase)
Work shop: 21,000sqm (1st Phase)
Warehouse : 10,206sqm

Founded in 2006



NEWAY Changqing Plant

Main Product: Gate Valve, Globe Valve, Check Valve machining
Work shop: 12,000sqm
Office : 2,500sqm

Founded in 1996



NEWAY Foundry (suzhou)

Main product: Sand Casting
Covers area: 40,000sqm
Work shop: 12,000sqm

Founded in 2003



NEWAY Foundry (dafeng)

Main Products: Lost wax investment casting
Covers area: 20,000sqm
Work shop: 12,000sqm

Founded in June 2004



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.