



Cat.no.:E-PS



Cat.no.:E-GGC



Cat.no.:E-TMBV



Cat.no.:E-FBV



Cat.no.:E-DOV



Cat.no.:E-TOV



Cat.no.:E-PLV



Cat.no.:E-FSV



Cat.no.:E-DAV



Cat.no.:E-CPS



Cat.no.:E-CBV

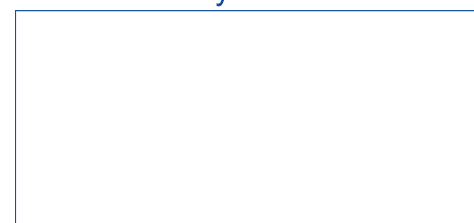


Cat.no.:E-PV

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NW NEWAY

API 6D

Pipeline Valves

Complete Solutions for Industrial Valves

NEWAY VALVE

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52 Neway Factory



Complete Solutions for Industrial Valves

As a global leader of valve manufacturing, Neway (SSE:603699) is dedicated to the production, research, and development of industrial valves. Neway is committed to providing complete valve solutions to all industries through advanced engineering and innovation.

Neway’s product line includes Ball, Butterfly, Gate, Globe, Check, Nuclear, Control, Subsea, Safety valves. Our high quality standards and innovative ability are recognized by many global end users and EPCs. Neway valves are utilized in a wide variety of industries and working conditions such as Refining, Chemical, Coal Chemical, Offshore(including subsea), Air Separation, LNG, Nuclear Power, Power Generation, and Pipeline Transmission applications.

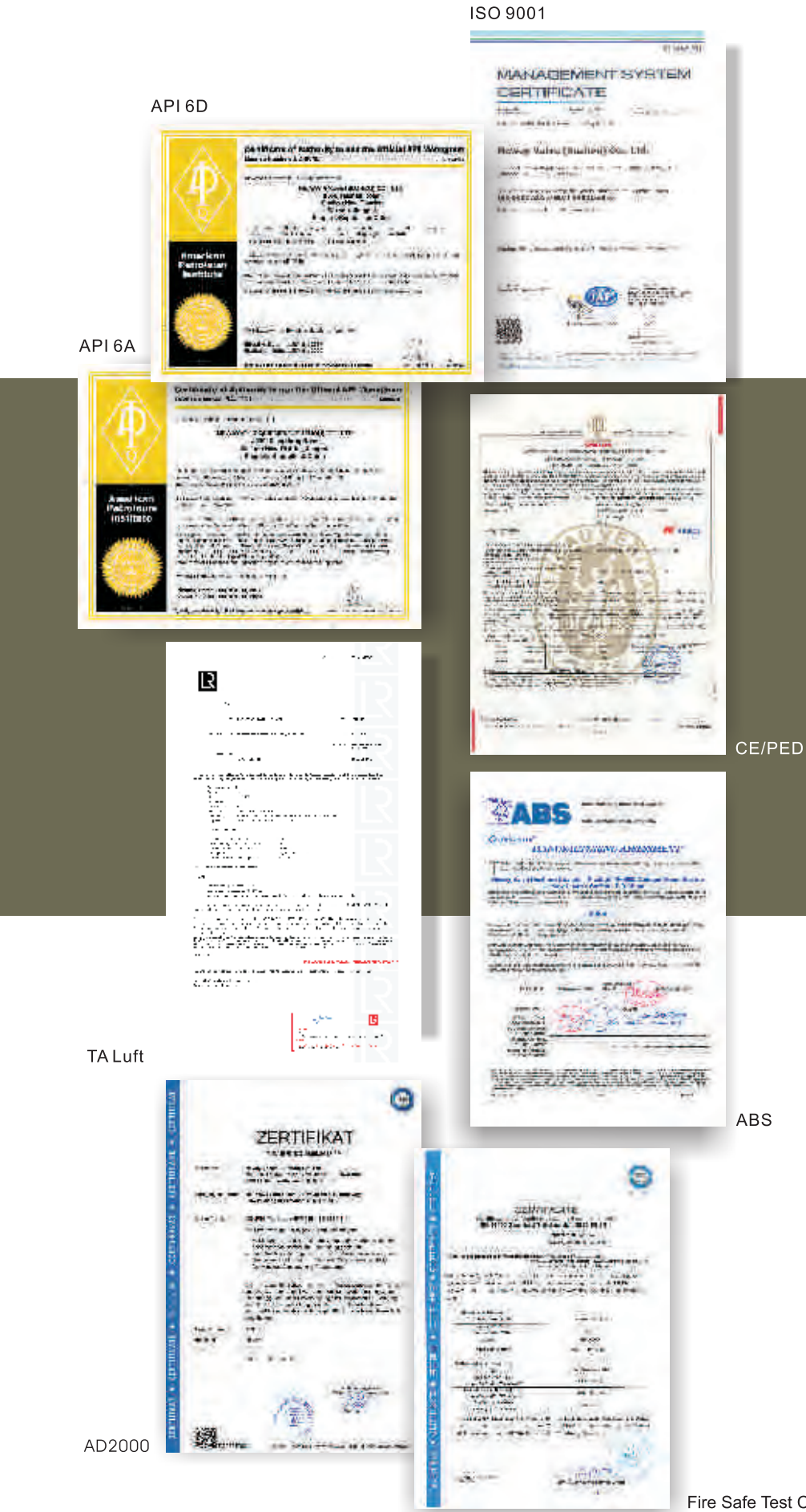
Facilities & Service

Neway has developed a sophisticated multi-plant management system operating one valve assembly plant, one API6A valve plant, three foundries, and one R&D center. Our largest assembly plant was expanded in 2013, and it now covers 230,000 square meters.

Advanced software (ANSYS, FE-Safe, CF-Design, Siemens PLM and NX) is applied here at Neway for the Research & Development of products. We use SAP to control the traceability and status of all products during the manufacturing process. In order to ensure the safety, eco-friendliness, and reliability of our products, we use the most advanced fire-safe, cryogenic, high pressure, and fugitive emission test equipment. As part of Neway’s global strategy, to provide better service to our customers, we have established our overseas subsidiaries in USA, Netherlands, Italy, Singapore and Dubai along with over 80 agents and distributors worldwide.

High Quality, High Value

Neway is dedicated to the pursuit of “ Zero Defect ”. We maintain a quality management system that encompasses our entire operation from order entry, to final inspection. Through Neway’s continuous efforts, our products have achieved industrial certificates including ISO 9001, API 6A, API 6D, CE/PED, ASME N & NPT, TA-Luft, ABS, CU-TR and Fire-Safe approvals.



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

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.



① 30" Class 600 Pneumatic Trunnion Mounted Ball Valve for Top Entry Construction
② Electric Trunnion Mounted Ball Valve for Side Entry Construction
③ High Velocity Oxygen Fuel Equipment
④ Fully Welded Ball Valve with Pneumatic-Hydraulic Actuator
⑤ Grinding Machine for Ball
⑥ 56" Class 900 Fully Welded Ball Valve
⑦ 3D Coordinate Measuring Machine



1



2



3



4



5



6

- 1 Full Opening Check Valve
- 2 36" Class 600 Through Conduit Gate Valves
- 3 36" Class 150 Through Conduit Gate Valves
- 4 Valve Components
- 5 Body Machining
- 6 24" Class 300 Gate Valves

How to Order

Figure Number Example:



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	Symbol	Type
GT	Through Conduit Gate Valve	GTS	Expanding Soft Seated Throught Conduit Gate Valve
GTM	Metal Seated Through Conduit Gate Valve	SF	Full Opening Check Valve
GTP	Pressure Seal Throught Conduit Gate Valve	BW	Fully Welded Trunnion Mounted Ball Valve
GTD	Pressure Seal, Metal Seated, Throught Conduit Gate Valve	BS	Side Entry Forged Trunnion Mounted Ball Valve
GTC	Expanding Metal Seated Throught Conduit Gate Valve		

③ ANSI Class

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

④ End Connection

Symbol	R	J	B
End	Raised Face Flanged End	RTJ Flanged End	Butt-welding End

⑤ Operation and Special Code (Gate & Ball Valve)

Symbol	Description	Symbol	Description
Null	Handwheel	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
L	Gas over Oil Actuator		

⑥ Body Material

Code	C00	C01	L20	L21	S00	S01
Material	WCB	WCC	LCB	LCC	CF8	CF8M
ASTM Ref.	ASTM A216 WCB	ASTM A216 WCC	ASTM A352 LCB	ASTM A352 LCC	ASTM A351 CF8	ASTM A351 CF8M

7A Trim Code (Gate & Ball Valve)

Trim code of gate valve consist of 5 numbers.

Seat Insert		O-Ring		Stem		Wedge		Seat	
Code	Material	Code	Material	Code	Material	Code	Material	Code	Material
1	PTFE(M111)	2	VITON A	1	F6a	1	F6a	1	F6a
3	PEEK	3	VITON AED	3	A105N / ENP	2	F304	2	F304
5	DEVLON V	5	HNBR	4	17-4PH	3	A105N / ENP	3	A105N / ENP
7	NYLON 12	8	VITON GLT	5	AISI 4140 / ENP	4	17-4PH	4	17-4PH
8	PCTFE	A	LION 101	6	F316	5	AISI 4140 / ENP	5	AISI 4140 / ENP
9	MOLON	B	EPDM	9	LF2 / ENP	6	F316	6	F316
B	15% Glass Fiber+M111	C	FKM	E	MONEL K-500	7	F304L	7	F304L
F	TFM1700	D	HNBR-80	M	INCONEL 718	8	F316L	8	F316L
H	25% Glass Fiber+M111	F	LION 985	N	F55	9	LF2 / ENP	9	LF2 / ENP
		G	FFKM	P	INCOLOY 825	E	MONEL 400	E	MONEL 400
		J	FR 58 / 90	Q	A182 F60	G	F6a + STL.6	G	F6a + STL.12
		K	FFKM AED	X	FXM-19	H	F304 + STL.6	H	F304 + STL.12
		L	Lipseal	Z	INCONEL 625	I	F316 + STL.6	I	F316 + STL.12
		Q	HNBR AED			M	INCONEL 718	M	INCONEL 718
						N	F55	N	F55
						P	INCOLOY 825	P	INCOLOY 825
						Q	A182 F60	Q	A182 F60
						Y	A105N + WC	Y	A105N + WC
						Z	INCONEL 625	Z	INCONEL 625

Trim code of ball valve consist of 5 numbers.

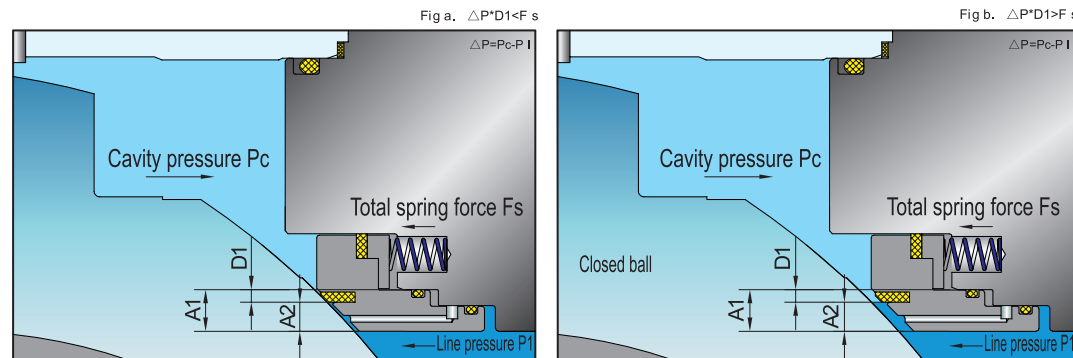
Seat Insert		O-Ring		Stem		Ball		Seat	
Code	Material	Code	Material	Code	Material	Code	Material	Code	Material
1	RPTFE	2	VITON A	1	F6a	1	F6a	1	F6a
3	PEEK	3	VITON AED	2	F304	2	F304	2	F304
5	DEVLON	5	HNBR 70	3	A105N / ENP	3	A105N / ENP	3	A105N / ENP
7	NYLON	Q	HNBR AED	4	17-4PH	4	17-4PH	4	17-4PH
J	VITON			5	AISI 4140 / ENP	5	AISI 4140 / ENP	5	AISI 4140 / 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.

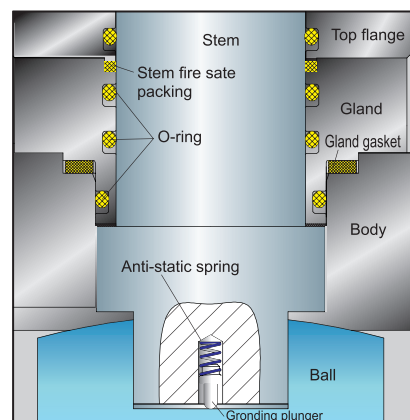
Symbol	API600 Trim Number	Disc Surface or O-ring	Seat Surface
		Material	
1	1	13%Cr	13%Cr
2	2	18%Cr-8Ni	18%Cr-8Ni
5	5	Stellite	Stellite
8	8	13%Cr	Stellite
9	9	MONEL	MONEL
10	10	18%Cr-8Ni-Mo	18%Cr-8Ni-Mo
12	12	18%Cr-8Ni-Mo	Stellite
13	13	Alloy20 19%Cr-29%Ni	Alloy20 19%Cr,29%Ni
102		VITON	13%Cr
125		VITON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

Cavity Pressure Relief



When force created by cavity pressure (P_c) is lower than the force created by line pressure (P_1), i.e. $\Delta P \cdot D_1 < F_s$, then contact between ball and seat ring is assured to provide a tight seal.

When cavity pressure is higher than seat spring force plus line pressure, i.e. $P \cdot D_1 > F_s$, the self relieving action allows the valve seat to move slightly away from the ball surface. Therefore, any overpressure inside the body cavity is discharged into the pipeline to restore the balance between the body cavity and the pipeline (either upstream or downstream side).

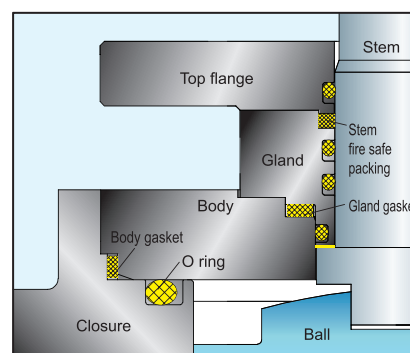


Anti Blow-out Stem

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

Anti-static Device

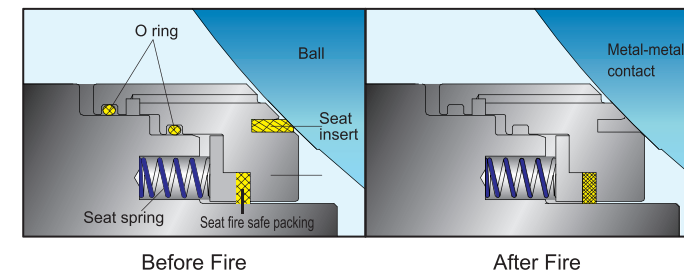
The Antistatic Device is a standard feature of the NEWAY ball valve. A spring-loaded pin assures the electrical continuity between the ball, stem and body, to avoid sparking during the turning of the stem to open and close the valve.



Super Fire safe design

External leakage prevention

Leakage from the valve stem area is prevented by two O-ring seals and a gland gasket. Leakage through the valve body connection is also blocked by an O-ring seal and a body gasket. After a fire deteriorated the O-rings, gland and body gasket, the firesafe stem packing prevents external leakage.

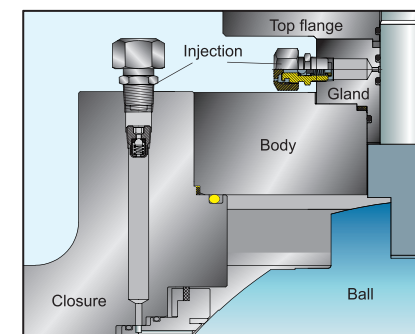


Internal leakage prevention

After the soft sealing materials 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 process media and minimize internal leakage through the valve bore. Also the fire safe graphite packing is compressed by the seat spring to prevent process media leakage between the valve body and the seat.

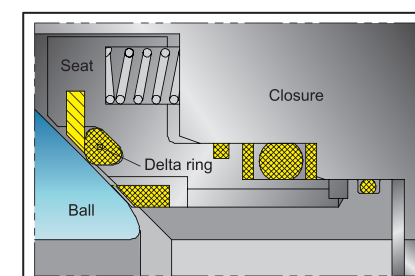
Double block and bleed

In the closed position, each seat shuts off the process media independently on each side, or simultaneously on both sides of the ball, the cavity can be vented / bled via vent or drain plugs on the valve body.



Emergency sealant injection system

For 6 inch and larger NEWAY Trunnion mounted ball valves, sealant injection fittings will be installed on both the stem and seats. When the sealing materials (soft seat or the stem o-ring) are damaged, the seat and stem leakage can be prevented by the sealant injected into these fittings. The fitting shall include a check valve secondary means of sealing. For 4 inch and below, it could be added upon requirement.



DELTA RING seat design (optional)

The material of delta ring is elastomer, which has better elasticity, can "absorb" the deviation in the ball, to obtain zero leakage easily, especially for large-sized ball or austenitic ball or full-welded ball valve. This is an optional design, not for standard.

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.

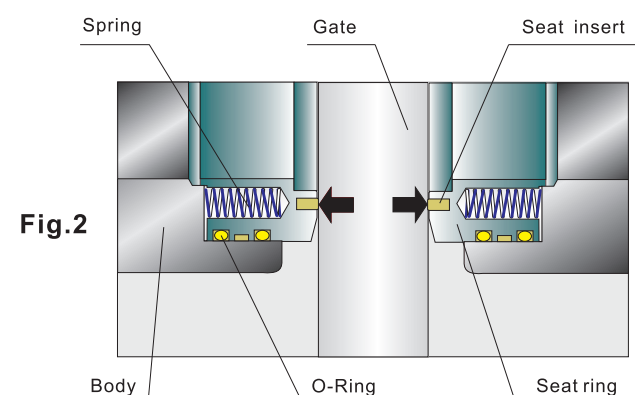
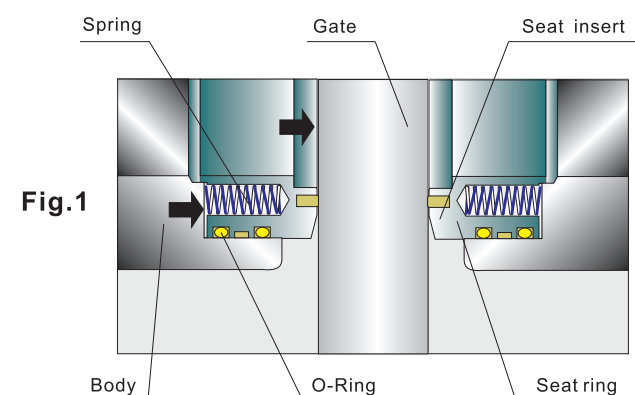
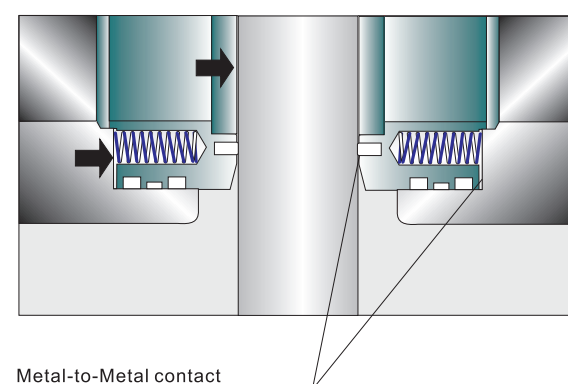
Seat sealing

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

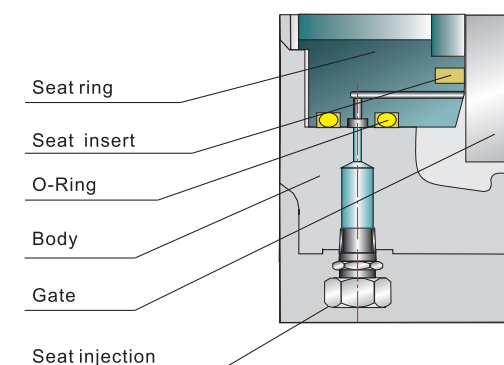
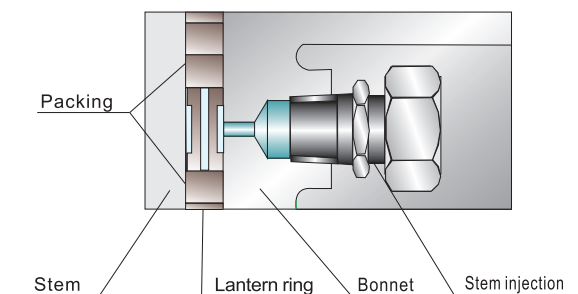
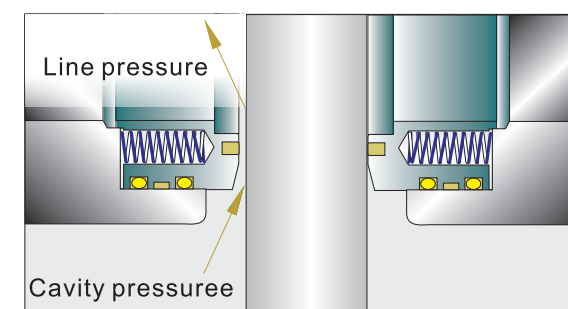
When valve is in closed position and there is an equal or no pressure throughout the valve, 2 spring-loaded floating seats can shut off the line fluid independently on the upstream and downstream side, allowing double block operation.(Fig.1)

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)



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.

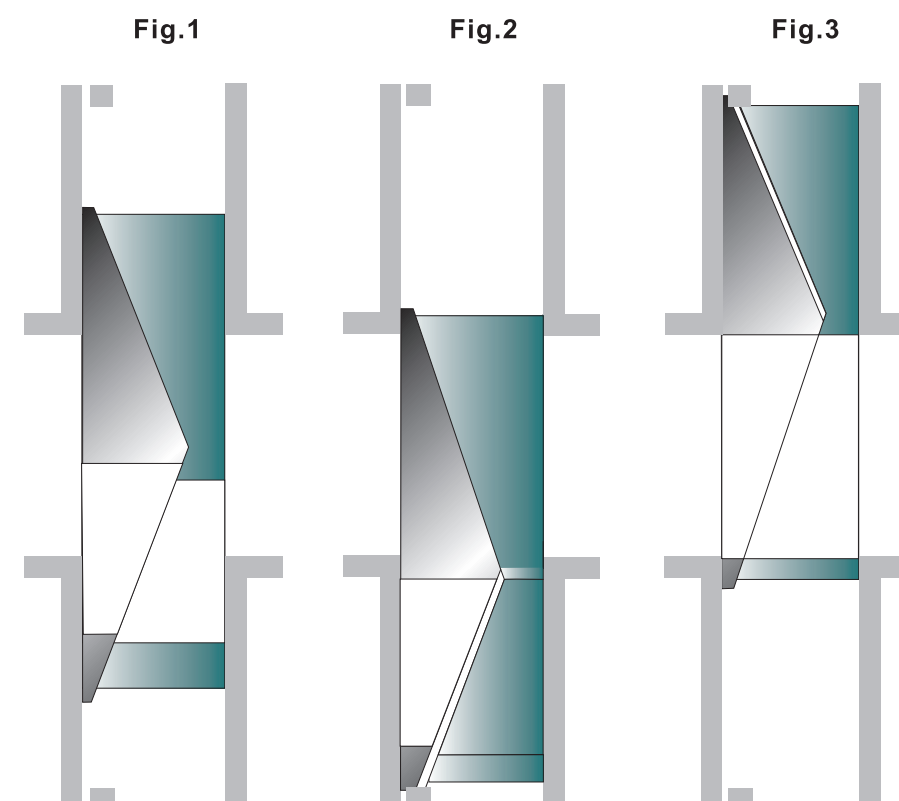


Expanding Gate Valve

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 installed with a second check valve to provides backup sealing.

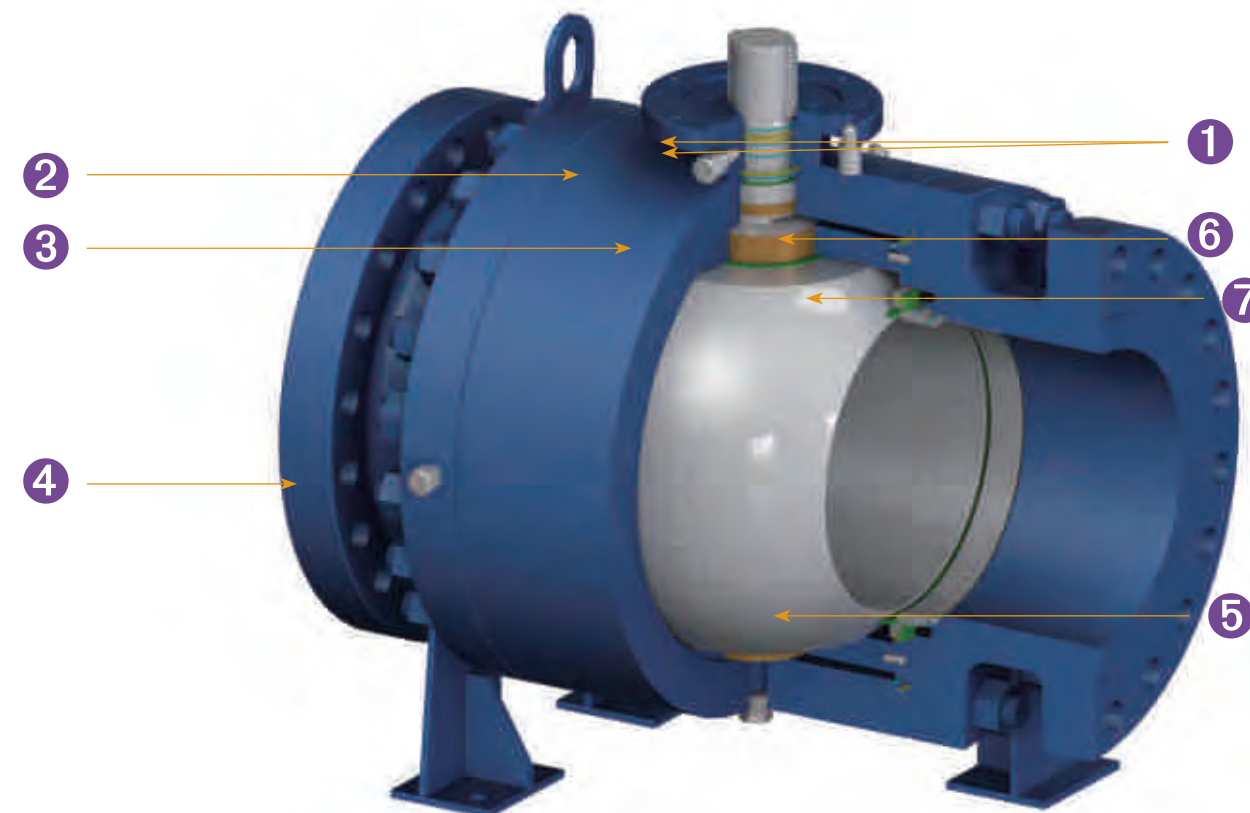
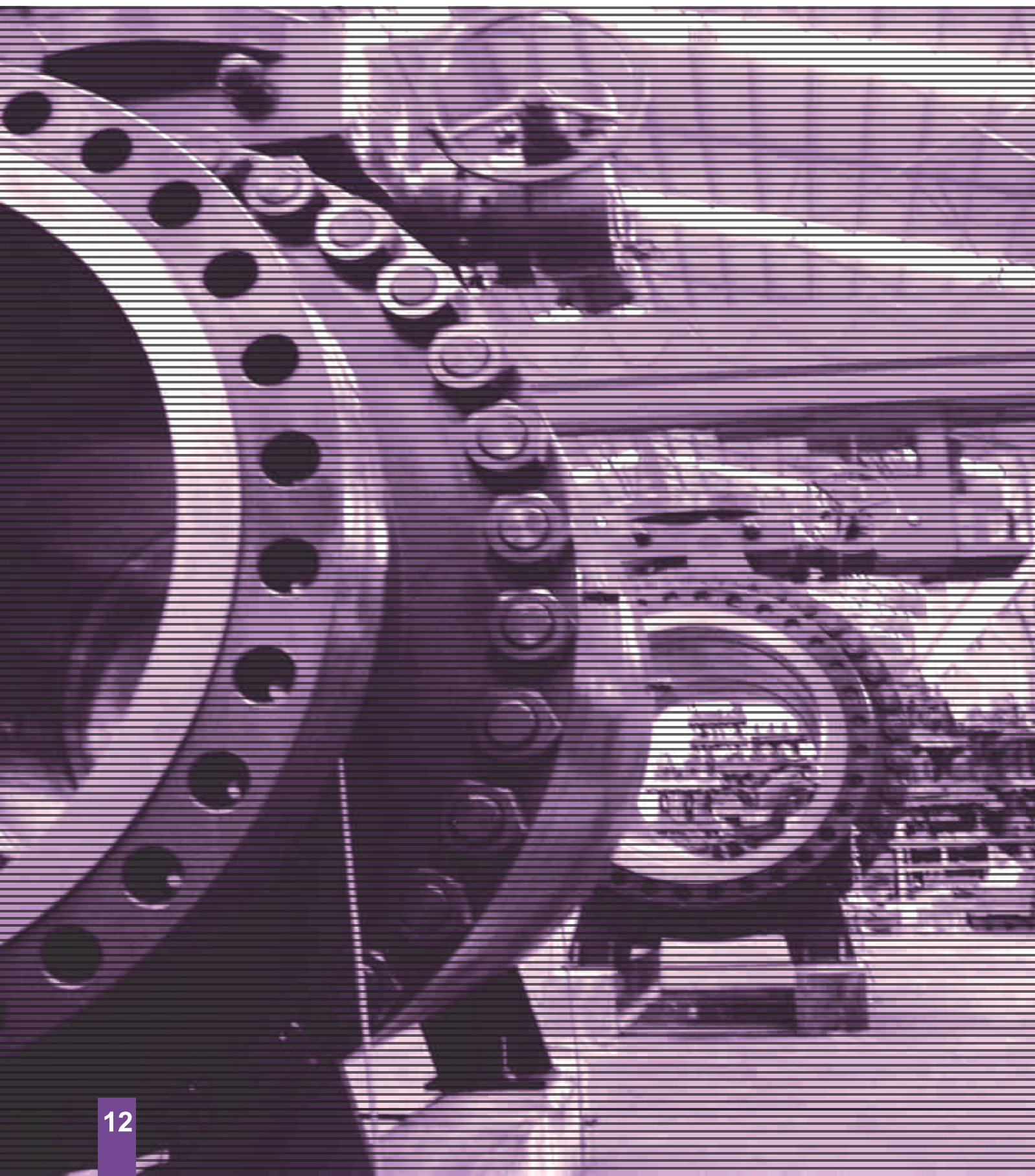


The gate and segment assembly collapses and moves well together along all four surfaces in the course of travel. The distance between the two faces of the gate is less than that between seats, thus the gate and segment can travel freely without experiencing sticking or wedging.(Fig.1)

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



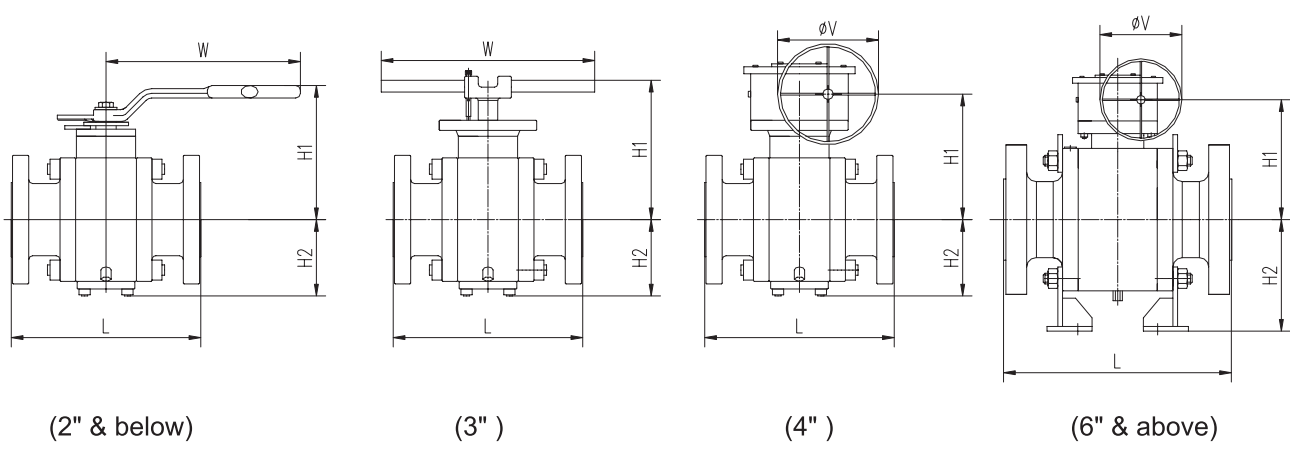
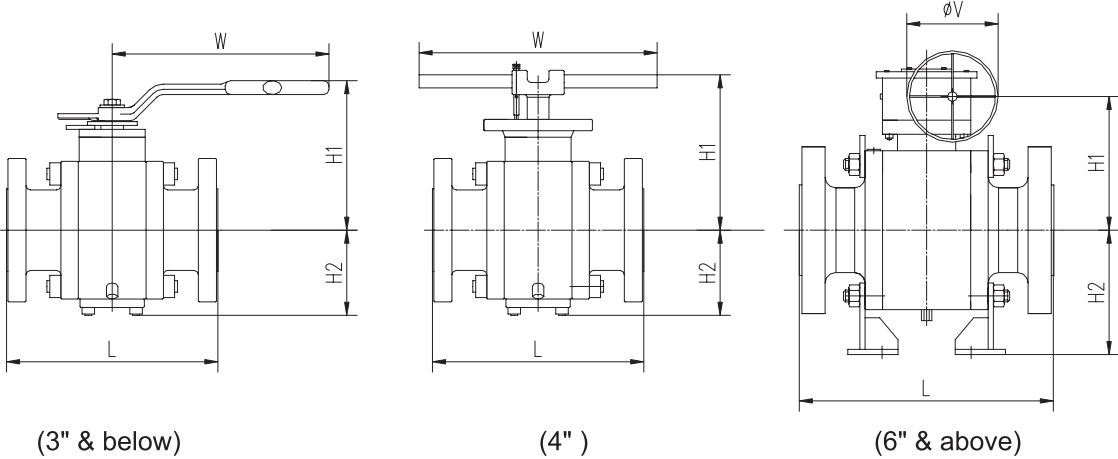
- ① Two O-ring Seals: Prevent leakage from stem area.
- ② Emergency Sealant Injection Fitting: Allows external interventions to prevent stem leakage.
- ③ Blow-out Proof Stem : Safety feature that functions to assure stem sealing at all pressures.
- ④ Emergency Sealant Injection Fitting: Allows external intervention to prevent seat leakage.
- ⑤ Back-up Metal to Metal Sealing: When primary soft-seat material is deteriorated by fire, the metal-to-metal provides shutoff.
- ⑥ O-ring & Gasket Combination: Prevents leakage from body connection area.
- ⑦ Floating Spring-loaded Seats: Assure sealing even at low pressures.

No.	Part	Carbon Steel (Non-Sour)	Stainless Steel	Carbon (Sour)	Low Temperature Carbon Steel
1	Body	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A350 LF2
2	Closure	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A350 LF2
3	Ball	ASTM A105N/ENP	ASTM A182 F316	ASTM A105N/ENP	ASTM A350 LF2/ENP
4	Seat Assembly(5+6)	5&6	5&6	5&6	5&6
5	Seat Insert	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK
6	Seat Retainer	ASTM A105N/ENP	ASTM A182 F316	ASTM A105N/ENP	ASTM A350 LF2/ENP
7	Stem	ASTM A105N/ENP	ASTM A182 F316	ASTM A105N/ENP	ASTM A350 LF2/ENP
8	Trunnion	ASTM A182 F6a	ASTM A182 F316L	ASTM A182 F6a	ASTM A182 F6a
9	Spiral-wound Gaskets	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
10	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
11	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
12	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
13	Fire Safe Graphite Ring	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
14	Top Flange	ASTM A105N	ASTM A182 F304	ASTM A105N	ASTM A350 LF2
15	Cover	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A350 LF2
16	Thrust Washer	PTFE	PTFE	PTFE	PTFE
17	Bearing	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2
18	Bearing	316SS+PTFE	316SS+PTFE	316SS+PTFE	316SS+PTFE
19	Cover	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A350 LF2
20	Pin	Carbon Steel	Stainless Steel	Carbon Steel	Carbon Steel
21	Pin	Carbon Steel	Stainless Steel	Carbon Steel	Carbon Steel
22	Anti-Static Device	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
23	Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
24	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
25	O-Ring	NBR	NBR	NBR	NBR
26	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
27	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
28	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
29	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
30	Vent Valve	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
31	Body Stud	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
32	Body Nut	ASTM A194-2H	ASTM A194-8	ASTM A194-2HM	ASTM A194-7M
33	Screw	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
34	Body Stud	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
35	Body Nut	ASTM A194-2H	ASTM A194-8	ASTM A194-2HM	ASTM A194-7M
36	Screw	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M

① -Please contact factory for materials supplied

No.	Part	Carbon Steel (Non-Sour)	Stainless Steel	Carbon (Sour)	Low Temperature Carbon Steel
1	Body	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A350 LF2
2	Closure	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A350 LF2
3	Ball	ASTM A105N/ENP	ASTM A182 F316	ASTM A105N/ENP	ASTM A350 LF2/ENP
4	Seat Assembly(5+6)	5&6	5&6	5&6	5&6
5	Seat Insert	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK
6	Seat Retainer	ASTM A105N/ENP	ASTM A182 F316	ASTM A105N/ENP	ASTM A350 LF2/ENP
7	Stem	ASTM A105N/ENP	ASTM A182 F316	ASTM A105N/ENP	ASTM A350 LF2/ENP
8	Cover	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A350 LF2
9	Top Flange	ASTM A105N	ASTM A182 F304	ASTM A105N	ASTM A350 LF2
10	Bearing Support	ASTM A588B/ENP	ASTM A351-CF3M	ASTM A588B/ENP	ASTM A588B/ENP
11	Support Legs	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
12	Lifting Lugs	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
13	Thrust Washer	PTFE	PTFE	PTFE	PTFE
14	Thrust Washer	PTFE	PTFE	PTFE	PTFE
15	Bearing	316SS+PTFE	316SS+PTFE	316SS+PTFE	316SS+PTFE
16	Bearing	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2
17	Seat Follower	ASTM A105N/ENP	ASTM A182 F316	ASTM A105N/ENP	ASTM A350 LF2/ENP
18	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
19	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
20	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
21	Fire Safe Graphite Ring	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite
22	O-Ring	NBR	NBR	NBR	NBR
23	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
24	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
25	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
26	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
27	O-Ring	HNBR/VITON	HNBR/VITON	HNBR/VITON	HNBR/VITON
28	Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
29	Pin	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
30	Pin	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
31	Pin	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
32	Anti-Static Device	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
33	Key	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
34	Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
35	Body Stud	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
36	Body Nut	ASTM A194-2H	ASTM A194-8	ASTM A194-2HM	ASTM A194-7M
37	Screw	ASTM A193-B7	A2-70	ASTM A193-B7	ASTM A320-L7M
38	Screw	ASTM A193-B7	A2-70	ASTM A193-B7	ASTM A320-L7M
39	Vent Valve	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
40	Plug	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
41	Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
42	Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel

① -Please contact factory for materials supplied



Class 150

Size in	D mm	L mm	H1 mm	H2 mm	W mm V mm	Weight Kg
2	49	178	172.1	89.3	330	19
3	74	203	200.8	106.8	400	26
4	100	229	222.3	126.5	400	47
6	150	394	275.5	255.0	400	160
8	201	457	313.0	291.0	400	260
10	252	533	362.0	333.0	600	446
12	303	610	399.5	370.0	600	695
14	334	686	511.0	394.5	600	896
16	385	762	547.5	430.0	600	1293
18	436	864	585.5	467.5	600	1512
20	487	914	624.0	505.5	600	1785
22	538	991	706.0	553.3	600	2331
24	589	1067	761.0	590.8	700	2900
26	633	1143	797.5	626.8	700	3360
28	684	1245	730.5	668.5	760	4247
30	735	1295	768.5	706.0	760	5061
32	779	1372	801.5	738.5	760	5765
34	830	1473	839.0	775.5	760	7039
36	874	1524	896.5	809.0	760	7996
40	976	1727	1142.5	903.5	760	11578
42	1020	1829	1176.0	936.0	760	12716
48	1166	1995	1284.5	1047.5	760	19278
54	1312		1376.5	1089.0	900	34230
56	1360	2489	1466.5	1138.3	1000	38325
60	1458		1558.5	1210.3	1000	41055

Class 300

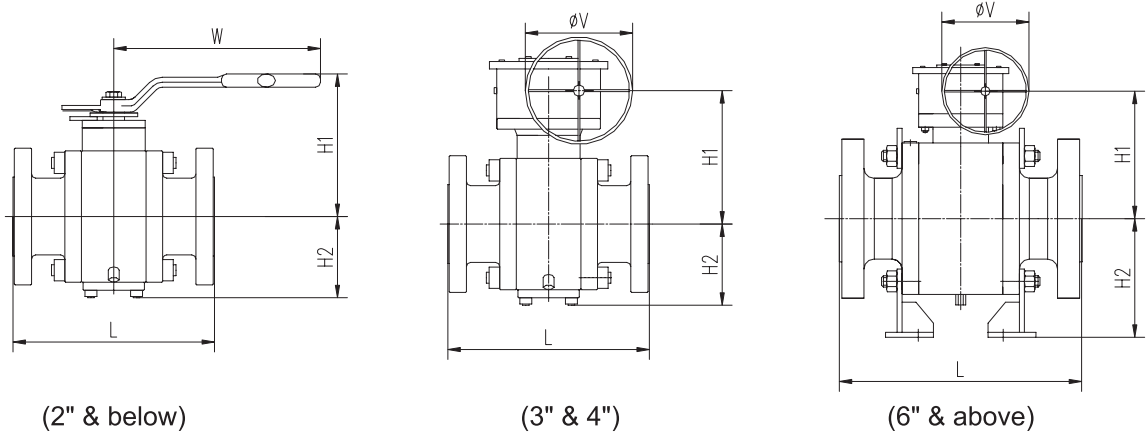
Size in	D mm	L mm	H1 mm	H2 mm	W mm V mm	Weight Kg
2	49	216	172.1	91.3	330	30
3	74	283	200.8	85.8	400	48
4	100	305	282.0	142	815	70
6	150	403	275.5	255.0	400	190
8	201	502	312.0	295.0	500	315
10	252	568	363.0	337.5	600	532
12	303	648	408.5	379.3	600	823
14	334	762	511.0	399.0	600	1000
16	385	838	557.0	439.3	600	1390
18	436	914	629.5	481.5	600	1887
20	487	991	685.5	523.5	700	2079
22	538	1092	732.5	562.0	700	2587
24	589	1143	661.0	604.0	760	3179
26	633	1245	704.0	644.0	760	4106
28	684	1346	773.5	687.0	760	5033
30	735	1397	811.5	724.5	760	6149
32	779	1524	846.0	761.5	760	6864
34	830	1626	883.5	799.0	760	8107
36	874	1727	1087.5	847.5	760	9279
40	976	1930	1166.5	930.0	760	12320
42	1020	2083	1262.0	962.5	800	14355
48	1166	2170	1408.0	996.3	900	20900
54	1312		1446.0	1089.0	900	35860
56	1360	2543	1466.5	1138.3	1000	40150
60	1458		1588.5	1210.3	1000	43010

Class 400

Size in	D mm	L mm	H1 mm	H2 mm	W mm V mm	Weight Kg
2	49	292	186.3	91.3	400	33
3	74	356	261.0	103.3	815	68
4	100	406	209.5	125.3	300	117
6	150	495	275.5	255.0	400	270
8	201	597	312.0	295.0	500	356
10	252	673	363.0	337.5	600	565
12	303	762	495.0	384.0	600	1000
14	334	826	521.0	408.5	600	1332
16	385	902	591.0	448.0	600	1860
18	436	978	641.5	490.0	600	1900
20	487	1054	701.5	532.0	700	2453
22	538	1143	637.5	580.0	760	3234
24	589	1232	675.5	614.5	760	4356
26	633	1308	752.5	666.0	760	4972
28	684	1397	945.0	707.0	760	5995
30	735	1524	982.5	744.5	760	6908
32	779	1651	1016.0	782.0	760	8085
34	830	1778	1064.0	827.5	760	9053
36	874	1880	1097.5	861.0	760	11110
40	976	2159	1103.0	856.8	900	14938
42	1020	2175	1197.5	889.3	800	16951
48	1166	2435	1324.5	996.3	800	24090
54	1312		1453.5	1089.5	1000	35860
56	1360	2710	1486.5	1138.3	1000	49639
60	1458		1588.5	1210.3	1000	52800

Class 600

Size in	D mm	L mm	H1 mm	H2 mm	W mm V mm	Weight Kg
2	49	292	186.3	91.3	400	38
3	74	356	261.0	85.8	815	78
4	100	432	217.5	103.3	400	117
6	150	559	284.5	263.5	400	275
8	201	660	322.0	304.3	500	438
10	252	787	380.0	351.0	600	740
12	303	838	508.0	392.5	600	1030
14	334	889	567.0	421.0	600	1347
16	385	991	613.0	463.0	600	1960
18	436	1092	674.5	505.5	700	2185
20	487	1194	604.0	548.5	760	3250
22	538	1295	678.5	602.0	760	3707
24	589	1397	717.5	641.0	760	4450
26	633	1448	778.5	692.5	760	6154
28	684	1549	968.0	729.5	760	6787
30	735	1651	1012.5	775.5	760	7493
32	779	1778	1046.0	808.0	900	8764
34	830	1930	1084.0	845.0	900	9475
36	874	2083	1179.5	887.5	800	11928
40	976	2159	1105.5	859.3	900	16464
42	1020	2175	1200.0	891.8	800	18379
48	1166	2435	1468.0	998.8	800	27104
54	1312		1493.0	1098.0	1000	36512
56	1360	2710	1519.0	1140.8	1000	50541
60	1458		1591.0	1212.8	1000	53760



Series BW Fully Welded Ball Valves

Class 900

Size in	D mm	L mm	H1 mm	H2 mm	$\frac{W}{mm} \quad \frac{V}{mm}$	Weight Kg
2	49	368	192.8	94.0	400	57
3	74	381	194.5	108.0	300	84
4	100	457	225.5	138.5	400	129
6	150	610	292.5	273.0	500	528
8	201	737	345.0	317.5	600	595
10	252	838	471.0	361.0	600	954
12	303	965	563.0	413.0	600	1405
14	322	1029	600.5	438.5	700	1932
16	373	1130	540.5	489.5	760	2412
18	423	1219	584.0	538.0	760	3372
20	471	1321	663.5	580.5	760	4152
22	522		863.5	627.5	760	5292
24	570	1549	903.5	675.0	760	6596
26	617	1651	960.0	722.0	760	8936
28	665	1753	974.0	769.5	760	12242
30	712	1880	1094.5	809.0	800	13730
32	760	2032	1147.0	852.5	900	14522
34	808	2159	1054.0	745.8	900	20954
36	855	2286	1087.5	779.3	900	24185

Class 1500

Size in	D mm	L mm	H1 mm	H2 mm	$\frac{W}{mm} \quad \frac{V}{mm}$	Weight Kg
2	49	368	192.8	100.0	400	63
3	74	470	212.0	121.3	400	121
4	100	546	243.0	152.0	400	193
6	144	705	315.5	293.0	600	713
8	192	832	464.0	346.5	600	925
10	239	991	557.0	398.0	700	1470
12	287	1130	510.0	453.0	760	2669
14	315	1257	538.5	480.0	760	2768
16	360	1384	601.5	527.5	760	3395
18	406	1537	779.5	585.5	760	4485
20	454	1664	824.5	636.0	760	5531
22	500		903.5	678.0	900	7049
24	546	1943	1025.5	727.5	800	8796

Class 2500

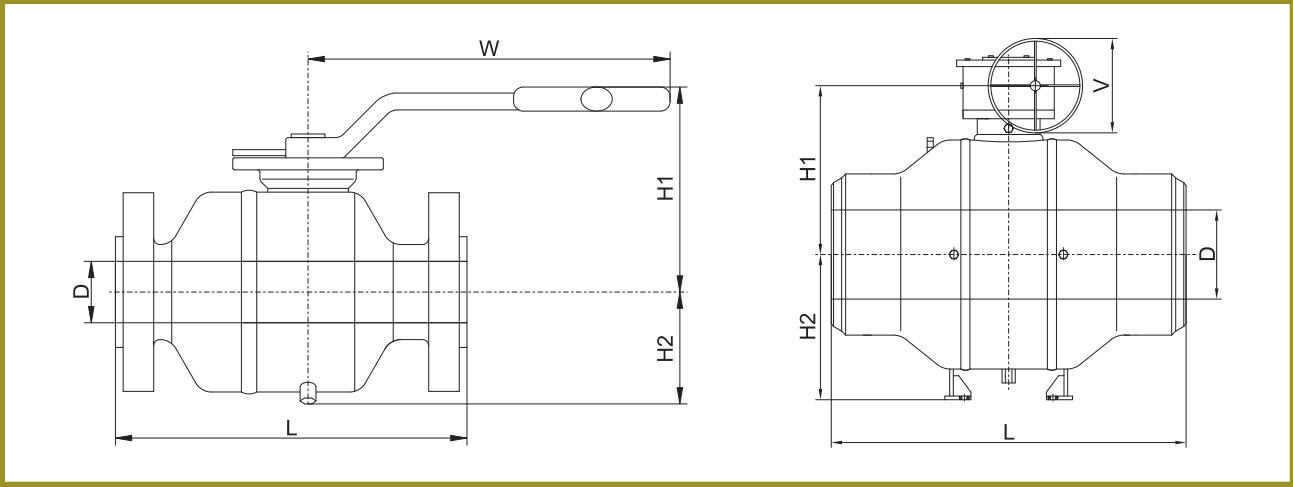
Size in	D mm	L mm	H1 mm	H2 mm	$\frac{W}{mm} \quad \frac{V}{mm}$	Weight Kg
2	42	451	184.0	133.5	400	108
3	62	578	219.5	156.5	600	240
4	87	673	257.0	186.0	600	462
6	131	914	217.0	346.0	600	934
8	179	1022	196.0	411.0	700	1622
10	223	1270	85.0	468.0	760	2564
12	265	1422	109.0	506.0	760	3920





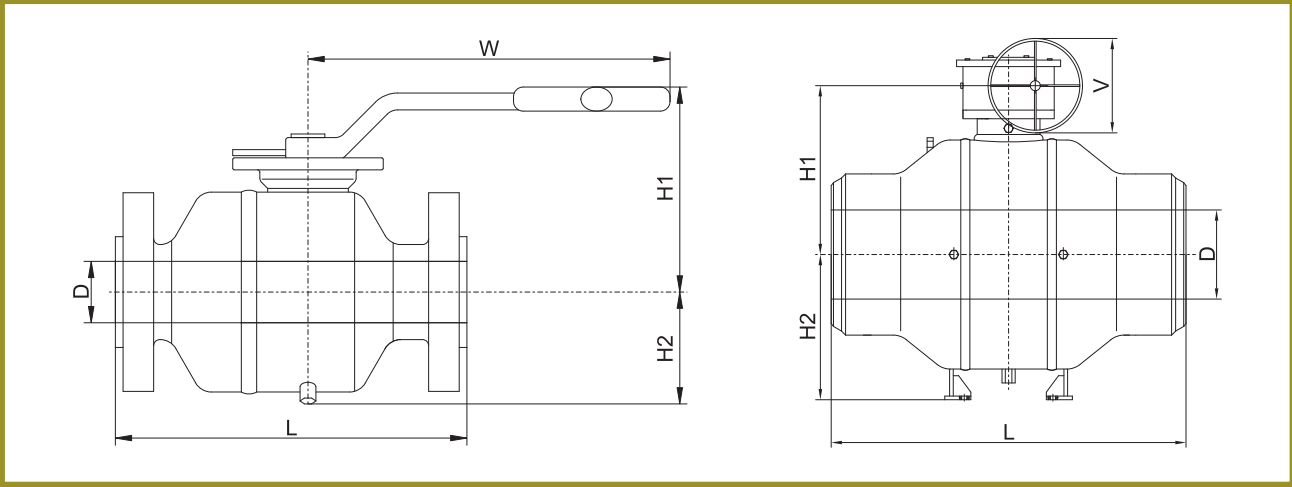
- 1 Blow-out Proof Stem : Safety feature that functions to assure stem sealing at all pressures.
- 2 Emergency Sealant Injection Fitting: Prevents leakage from the stem.
- 3 Emergency Sealant Injection Fitting: Prevents leakage from the seat.
- 4 Fully-welded body structure: The line media leakage can be prevented.
- 5 Floating Spring-loaded Seats: Assure sealing even at low pressures.
- 6 Metal to Metal sealing: When soft seals are deteriorated by fire, Seat float to shut off the line media.

NO.	Part Name	Standard	Low Temperature Service
1	Body	ASTM A105 / QT	ASTM A350 LF2
2	Body Cap	ASTM A105 / QT	ASTM A350 LF2
3	Ball	ASTM A105N / ENP	ASTM A350 LF2 / ENP
4	Seat Assembly(5+6+8)	5+6+8	5+6+8
5	Delta Ring	VITON AED / HNBR AED	VITON AED / HNBR AED
6	Seat Retainer	ASTM A105N / ENP	ASTM A350 LF2 / ENP
7	Stem	ASTM A105N / ENP	ASTM A350 LF2 / ENP
8	Trunnion Support	ASTM A216 WCB / ENP	ASTM A352 LCB / ENP
9	Cover	ASTM A105 / QT	ASTM A350 LF2
10	Top Flange	ASTM A105N	ASTM A350 LF2
11	Support Ring	ASTM A182 F6a	ASTM A182 F6a
12	Separate Ring	ASTM A182 F6a	ASTM A182 F6a
13	Washer	ASTM A182 F6a	ASTM A182 F6a
14	Spring	INCONEL X-750	INCONEL X-750
15	Anti-Static Device	ASTM A276 316	ASTM A276 316
16	Pin	AISI 1035	AISI 1035
17	Thrust Washer	RPTFE	RPTFE
18	Thrust Washer	RPTFE	RPTFE
19	Bearing	316+RPTFE	316+RPTFE
20	Bearing	316+RPTFE	316+RPTFE
21	Fire Safe Seal	316+GRAPHITE	316+GRAPHITE
22	Fire Safe Seal	316+GRAPHITE	316+GRAPHITE
23	O Ring	HNBR	HNBR
24	O Ring	HNBR	HNBR
25	O Ring	HNBR	HNBR
26	O Ring	HNBR	HNBR
27	O Ring	HNBR	HNBR
28	Screw	ASTM A193 B7	ASTM A320 L7M
29	Key	45	ASTM A182 F6a
30	Pin	ASTM A276 304	ASTM A276 304
31	Pin	ASTM A276 304	ASTM A276 304
32	Injection	ASTM A182 F304	ASTM A182 F304
33	Injection	ASTM A182 F304	ASTM A182 F304
34	Check Valve	ASTM A182 F304	ASTM A182 F304
35	Relife Valve	ASTM A182 F304	ASTM A182 F304
36	Vent Valve	ASTM A182 F304	ASTM A182 F304
37	Lifting Lugs	ASTM A283.GRC	ASTM A283.GRC
38	Support Legs	ASTM A283.GRC	ASTM A283.GRC



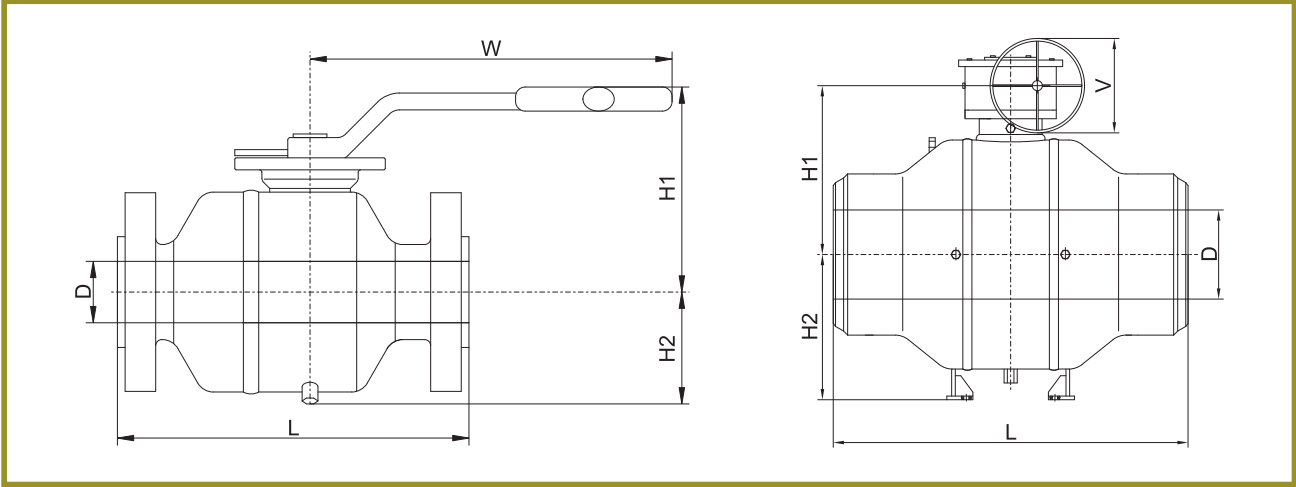
Class 150

Size in	D mm	L		H1 mm	H2 mm	W mm V mm		Weight Kg
		RF mm	BW mm					
2	49	216	216	153.3	104.25	330		23
3	74	283	283	184.8	122	400		36
4	100	305	305	204.8	136.5	400		60
6	150	403	457	290.5	240.5	400		190
8	201	502	521	329.0	276	400		315
10	252	568	559	392.5	316	600		352
12	303	648	635	430.5	354	600		666
14	334	762	762	539.0	382	600		859
16	385	838	838	576.0	418	600		1080
18	436	914	914	614.5	456.5	600		1440
20	487	991	991	653.5	495.5	600		1700
22	538	1092	1092	748.5	529.5	600		2220
24	589	1143	1143	804.0	576.5	700		2775
26	633	1245	1245	839.5	603	700		3200
28	684	1346	1346	758.5	643.5	760		4045
30	735	1397	1397	796.5	681.5	760		4820
32	779	1524	1524	830.0	714	760		5490
34	830	1626	1626	782.5	751	760		6704
36	874	1727	1727	924.5	785	760		7615
40	976	1900	1840	1135.5	868	760		11027
42	1020	2050	1960	1169.0	900.5	760		12110
48	1166	2170	2170	1277.5	1008.5	760		18360
54	1312			1261.0	1081	900		32600
56	1360			1263.0	1145	1000		36500
60	1458			1319.0	1219	1000		39100



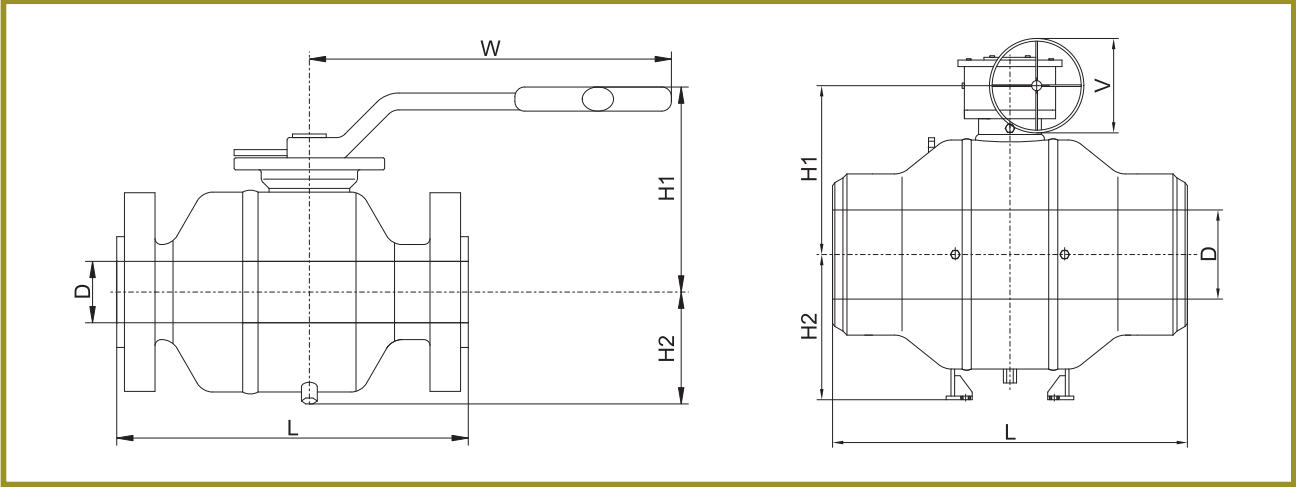
Class 300

Size in	D mm	L		H1 mm	H2 mm	W mm V mm		Weight Kg
		RF mm	BW mm					
2	49	216	216	153.3	104.25	330		24
3	74	283	283	184.8	122	400		53
4	100	305	305	206	142	300		98
6	150	403	457	290.5	240.5	400		211
8	201	502	521	336	276	500		342
10	252	568	559	392.5	316	600		374
12	303	648	635	430.5	354	600		750
14	334	762	762	539	382	600		900
16	385	838	838	576	418	600		1300
18	436	914	914	647.5	456.5	600		1715
20	487	991	991	703.5	495.5	700		1890
22	538	1092	1092	765.5	538	700		2352
24	589	1143	1143	693	576.5	760		2890
26	633	1245	1245	728.5	613.5	760		3733
28	684	1346	1346	812.5	654.5	760		4575
30	735	1397	1397	850.5	693	760		5590
32	779	1524	1524	884	726.5	760		6240
34	830	1626	1626	921.5	764.5	760		7370
36	874	1727	1727	1076.5	804	760		8435
40	976	1930	1840	1155.5	883.5	760		11200
42	1020	2083	1960	1251	917	800		13050
48	1166	2170	2170	1098.5	1026.5	900		19000
54	1312			1134	1086	900		32600
56	1360	2543		1263	1175.5	1000		36500
60	1458			1447	1250.5	1000		39100



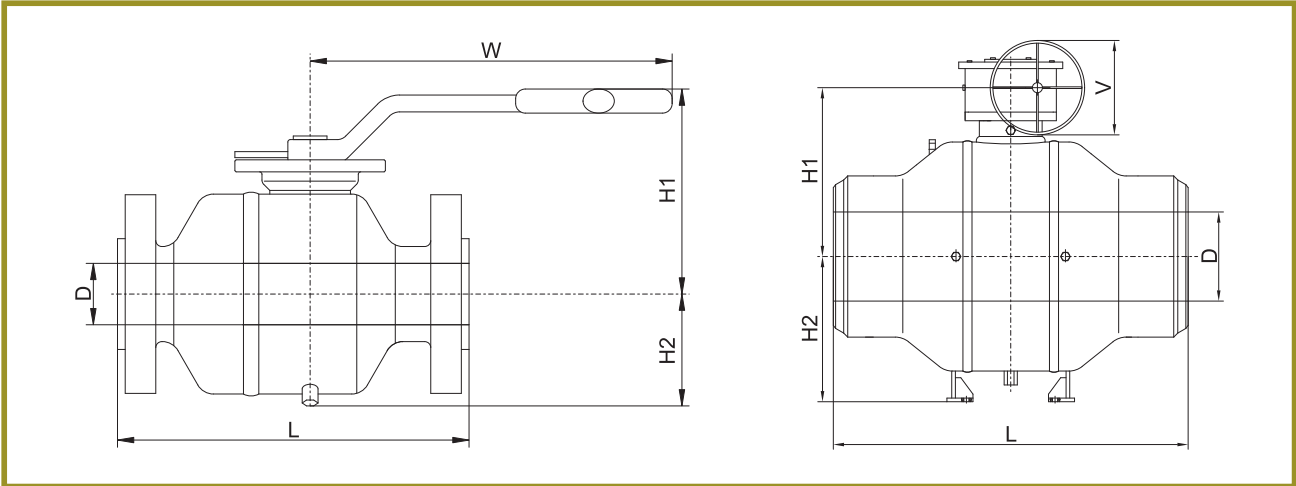
Class 400

Size in	D mm	L			H1 mm	H2 mm	W mm	V mm	Weight Kg
		RF mm	BW mm	RTJ mm					
2	49	292	292	295	170.3	108	400		33
3	74	356	356	359	186	128		300	73
4	100	406	406	410	206	142		300	117
6	150	495	495	498	290.5	244.5		400	229
8	201	597	597	600	336	281.5		500	356
10	252	673	673	676	392.5	318.5		600	478
12	303	762	762	765	513	360.5		600	850
14	334	826	826	829	539	385.5		600	910
16	385	902	902	905	609	422		600	1350
18	436	978	978	981	647.5	461		600	1760
20	487	1054	1054	1060	726	504		700	2230
22	538	1143	1143	1153	675.5	547.5		760	2940
24	589	1232	1232	1241	714.5	586		760	3960
26	633	1308	1308	1321	774.5	623.5		760	4520
28	684	1397	1397	1410	938	668		760	5450
30	735	1524	1524	1537	971.5	706.5		760	6280
32	779	1651	1651	1667	1005	740.5		760	7350
34	830	1778	1778	1794	1043	778.5		760	8230
36	874	1880	1880	1895	1096.5	813.5		760	10100
40	976	2159	2159		892.5	893		900	13580
42	1020	2175	2175		988.5	927.5		800	15410
48	1166	2435	2435		1098.5	1040.5		800	21900
54	1312				1164.5	1135		1000	32600
56	1360	2710	2710		1245.5	1192.5		1000	45126
60	1458				1446.5	1268.5		1000	48000



Class 600

Size in	D mm	L			H1 mm	H2 mm	W mm	V mm	Weight Kg
		RF mm	BW mm	RTJ mm					
2	49	292	292	295	170.3	108	400		33
3	74	356	356	359	186	128		300	73
4	100	432	432	435	208	142		400	139
6	150	559	559	562	290.5	244.5		400	280
8	201	660	660	664	336	281.5		500	450
10	252	787	787	791	392.5	323.5		600	600
12	303	838	838	841	533	366		600	913
14	334	889	889	892	592	392		600	930
16	385	991	991	994	629	472		600	1400
18	436	1092	1092	1095	686.5	511		700	1850
20	487	1194	1194	1200	615	554		760	2390
22	538	1295	1295	1305	699.5	597.5		760	3370
24	589	1397	1397	1407	738.5	636		760	4170
26	633	1448	1448	1461	774.5	673.5		760	5495
28	684	1549	1549	1562	958	718		760	6060
30	735	1651	1651	1664	991.5	722.5		760	6690
32	779	1778	1778	1794	1025	807		900	7825
34	830	1930	1930	1946	1063			900	8460
36	874	2083	2083	2099	1188.5	882.5		800	10650
40	976	2159	2159		892.5	968		900	14700
42	1020	2175	2175		988.5	1003.5		800	16410
48	1166	2435	2435		1098.5	1120.5		800	24200
54	1312				1235.5	1203.5		1000	32600
56	1360	2710	2710		1374.5	1276.5		1000	45126
60	1458				1446.5	1355.5		1000	48000



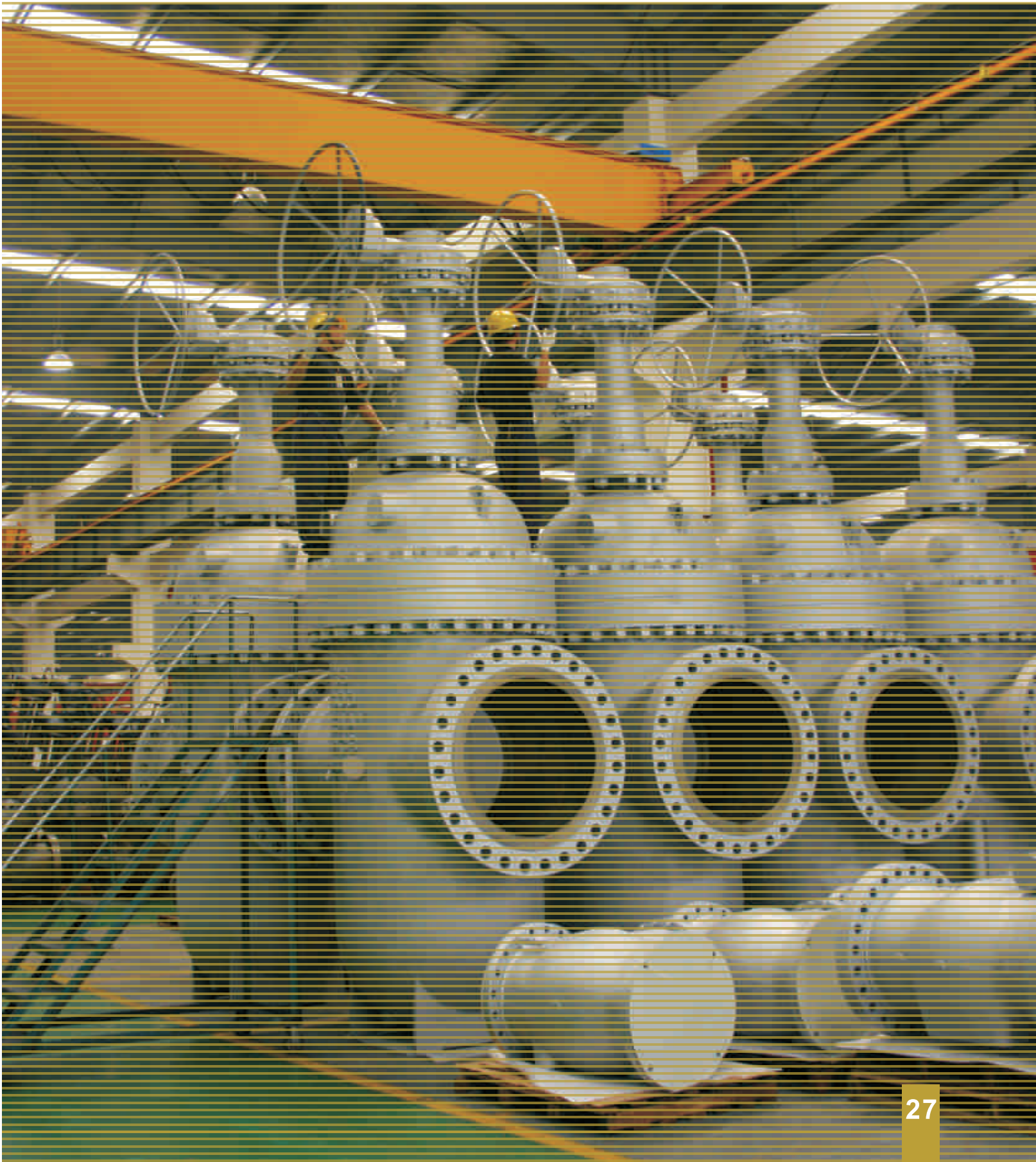
Class 900

Size in	D mm	L			H1 mm	H2 mm	W mm	V mm	Weight Kg
		RF mm	BW mm	RTJ mm					
2	49	368	368	371	170.3	108	400		50
3	74	381	381	384	186	128	300		84
4	100	457	457	460	208	142	400		160
6	150	610	610	613	317.5	249.5	500		440
8	201	737	737	740	357	290.5	600		520
10	252	838	838	841	486.5	336	600		820
12	303	965	965	968	566	377	600		1125
14	322	1029	1029	1038	624.5	408.5	700		1610
16	373	1130	1130	1140	551.5	497.5	760		2010
18	423	1219	1219	1232	605	543.5	760		2810
20	471	1321	1321	1334	689.5	585	760		3460
22	522				862.5	635	760		4410
24	570	1549	1549	1568	902.5	676.5	760		5497
26	617	1651	1651	1673	939	716	760		7447
28	665	1753	1753	1775	983	757	760		10202
30	712	1880	1880	1902	1803.5	799.5	800		11442
32	760	2032	2032	2054	837	837	900		12102
34	808	2159	2159	2188	840	879	900		17462
36	855	2286	2286	2315	874	918.5	900		20154

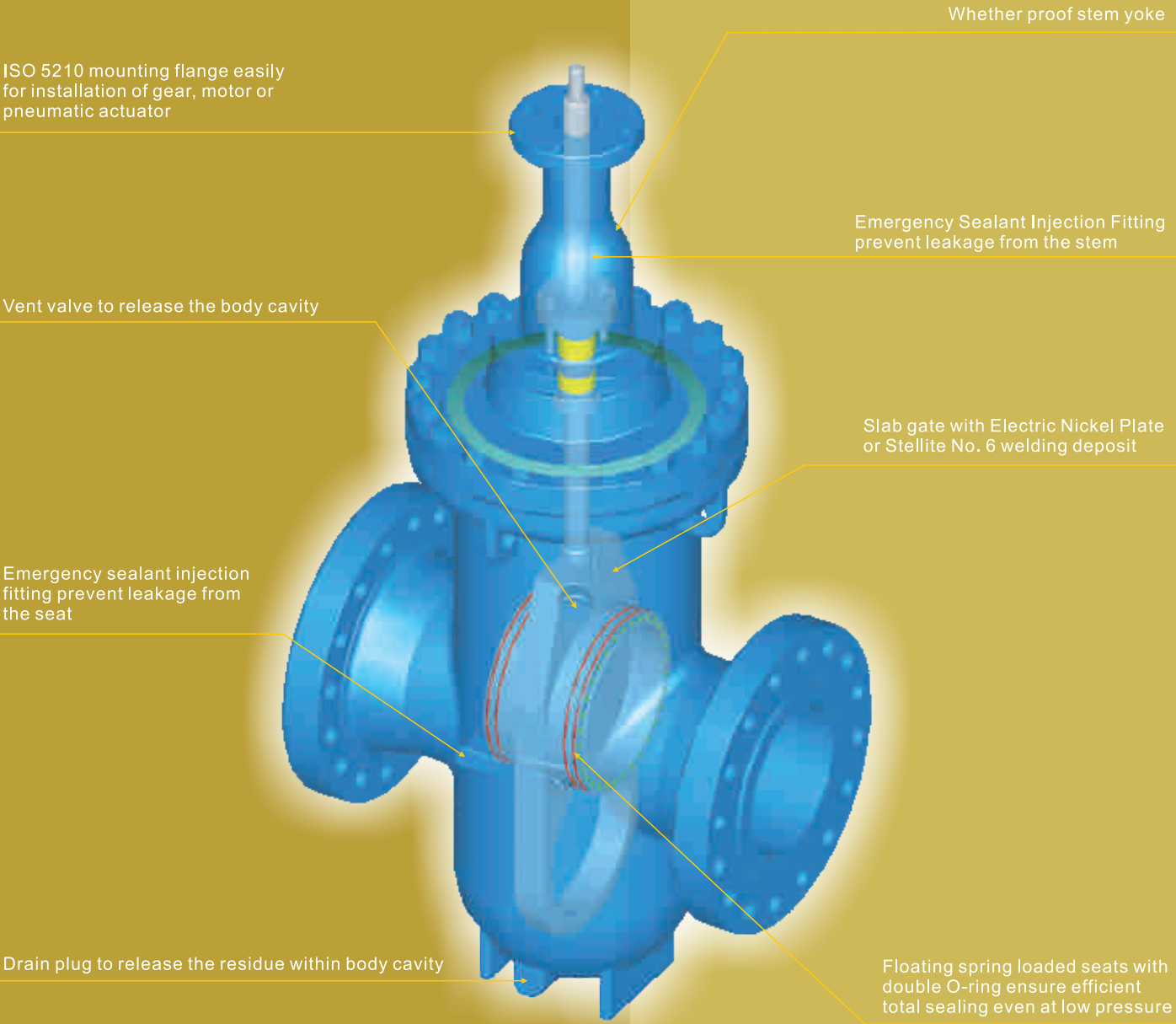
Class 1500

Size in	D mm	L			H1 mm	H2 mm	W mm	V mm	Weight Kg
		RF mm	BW mm	RTJ mm					
2	49	368	368	371	170.3	108	400	50	
3	74	470	470	473	200.4	128	400	115	
4	100	546	546	549	208	147	400	194	
6	144	705	705	711	320.5	262	600	580	
8	192	832	832	841	476	307	600	752	
10	239	991	991	1000	524	357	700	1195	
12	287	1130	1130	1146	492	404.5	760	2170	
14	315	1257	1257	1276	543.5	435	760	2250	
16	360	1384	1384	1407	605.5	530.5	760	2760	
18	406	1537	1537	1559	768	578	760	3646	
20	454	1664	1664	1686	818.5	627	760	4497	
22	500				892.5	677	900	5731	
24	546	1943	1943	1972	1004.5	724	800	7151	

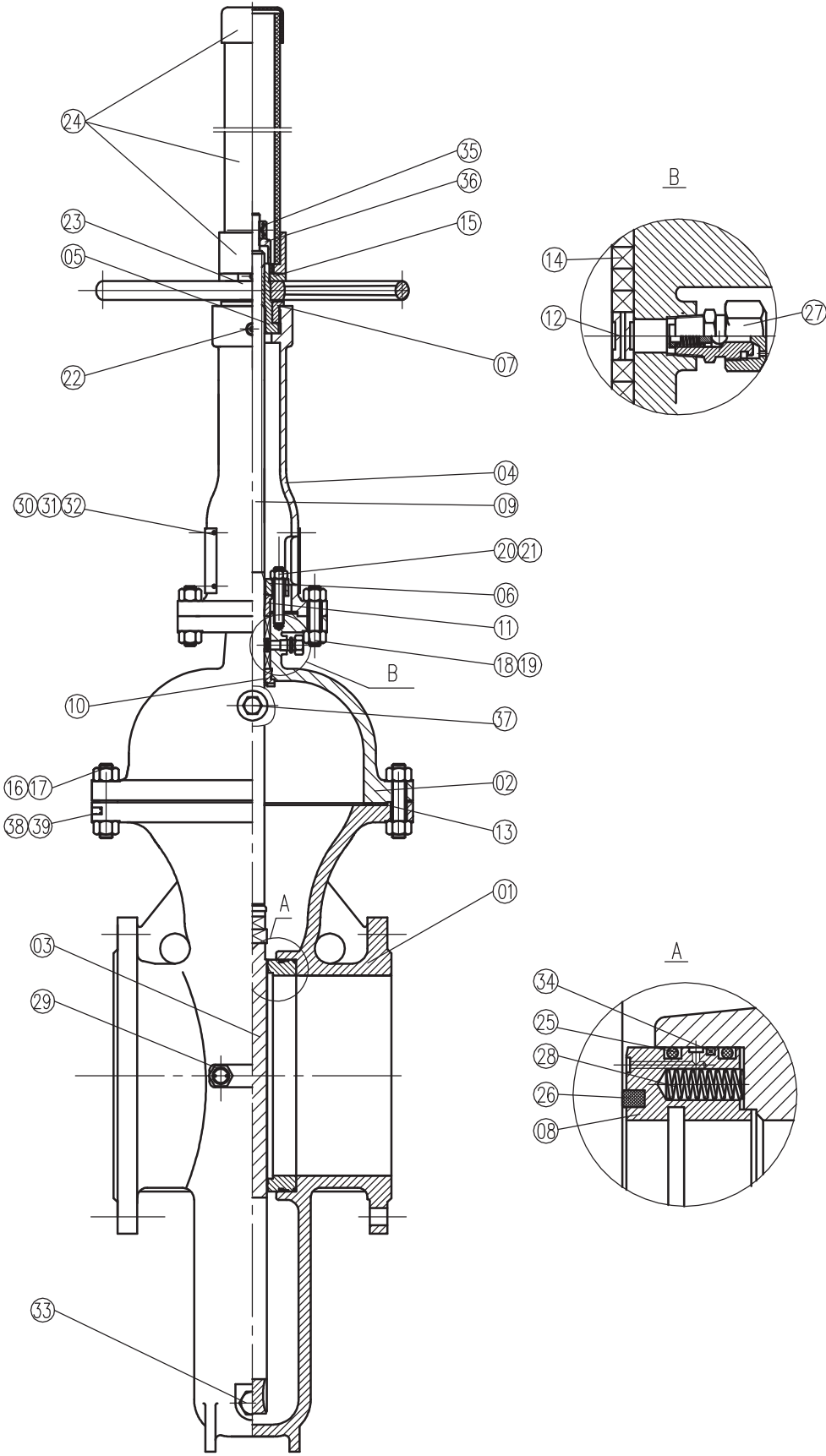
Series GT Through Conduit Gate Valve



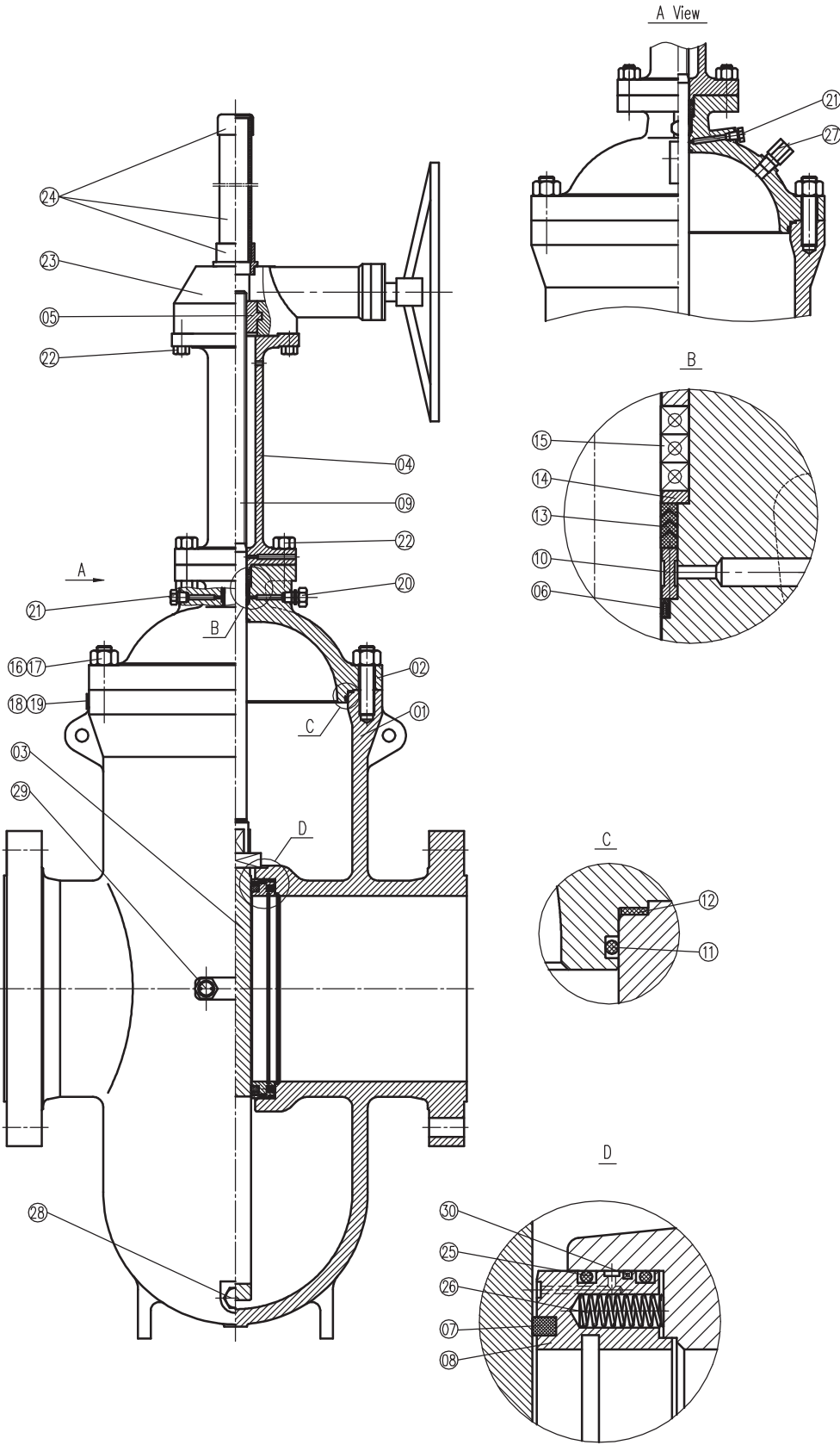
Neway through conduit gate valves has 2 main series: Slab Gate and Expanding Gate, both are fully comply with API 6D standard. For conventional temperature service, Neway slab gate valves are designed for temperatureservice ranging from -46°C to 200°C. For high temperature service, Neway expanding gate 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.



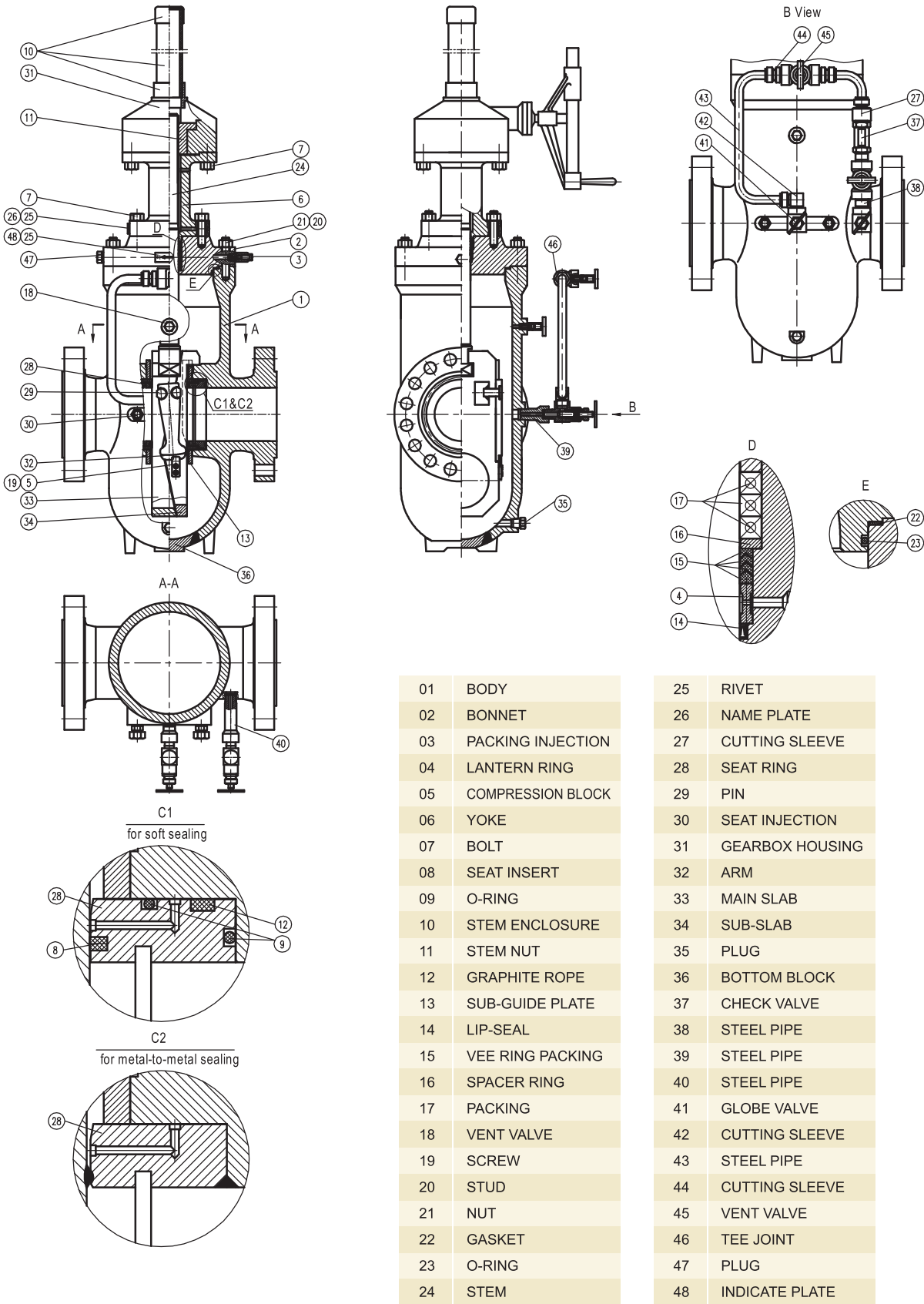
This is a typical NEWAY series GT Through Conduit Gate Valve illustrated cross-section drawing which is only for demonstrating of basic design features. The actual product design may be slightly different from this sample drawing due to its size and pressure class.



01	BODY
02	BONNET
03	SLAB GATE
04	YOKE
05	STEM NUT
06	GLAND FLANGE
07	RETAINING NUT
08	FLOATING SEAT
09	STEM
10	BACK SEAT
11	GLAND
12	LANTERN RING
13	GASKET
14	PACKING
15	HANDWHEEL NUT
16	STUD
17	NUT
18	STUD
19	NUT
20	NUT
21	EYE BOLT
22	GREASE FITTING
23	HANDWHEEL
24	STEM ENCLOSURE
25	O RING
26	SEAT INSERT
27	STEM INJECTION
28	SPRING
29	SEAT INJECTION
30	SCREW
31	SIDE COVER
32	GASKET
33	PLUG
34	GRAPHITE ROPE
35	PIN
36	LIMITS NUT
37	VENT VALVE
38	RIVET
39	NAME PLATE



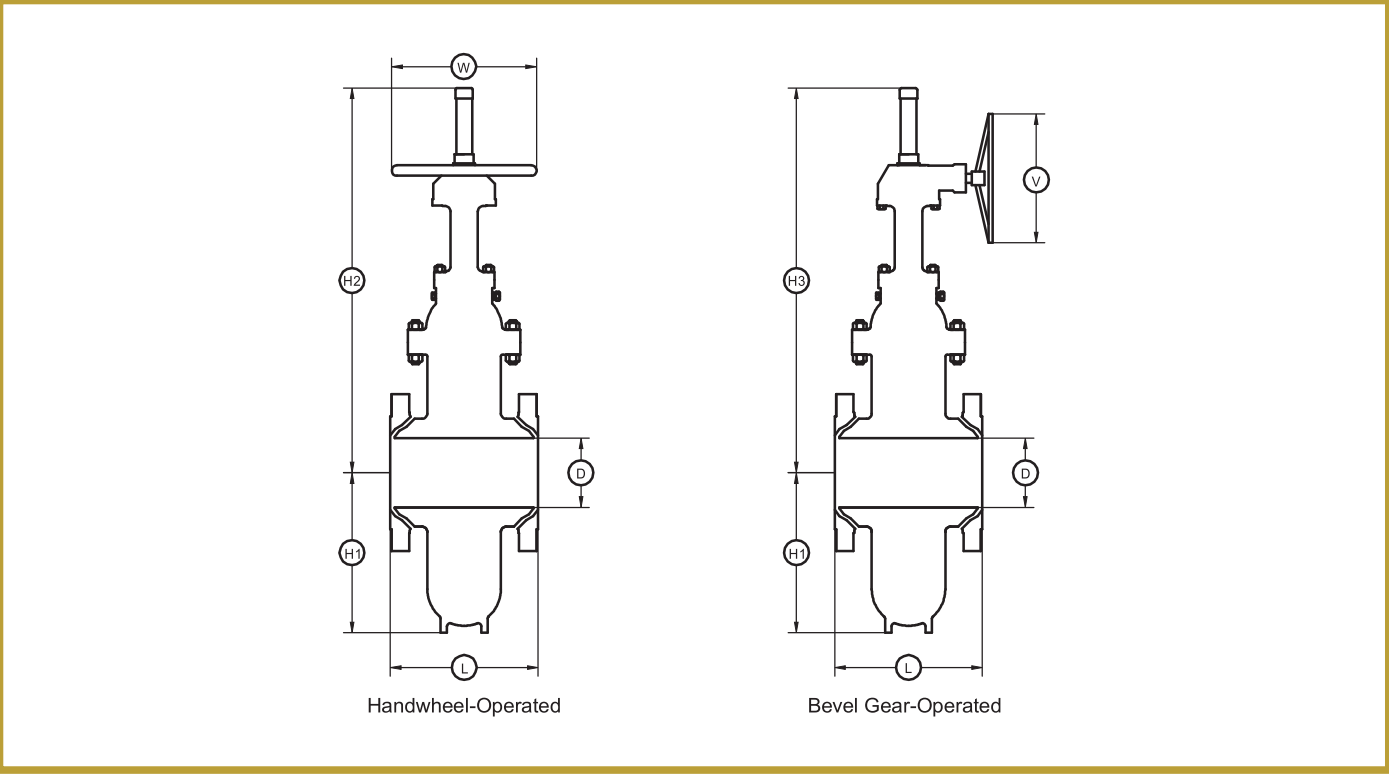
01	BODY
02	BONNET
03	SLAB GATE
04	YOKE
05	STEM NUT
06	LIPSEAL
07	SEAT INSERT
08	FLOATING SEAT
09	STEM
10	LANTERN RING
11	O RING
12	GASKET
13	PACKING
14	SPACE RING
15	PACKING
16	STUD
17	NUT
18	RIVET
19	NAME PLATE
20	STEM INJECTION
21	PLUG
22	BOLT
23	GEAR ACTUATOR
24	STEM ENCLOSURE
25	O RING
26	SPRING
27	VENT VALVE
28	PLUG
29	SEAT INJECTION
30	GRAPHITE ROPE



01	BODY
02	BONNET
03	PACKING INJECTION
04	LANTERN RING
05	COMPRESSION BLOCK
06	YOKE
07	BOLT
08	SEAT INSERT
09	O-RING
10	STEM ENCLOSURE
11	STEM NUT
12	GRAPHITE ROPE
13	SUB-GUIDE PLATE
14	LIP-SEAL
15	VEE RING PACKING
16	SPACER RING
17	PACKING
18	VENT VALVE
19	SCREW
20	STUD
21	NUT
22	GASKET
23	O-RING
24	STEM

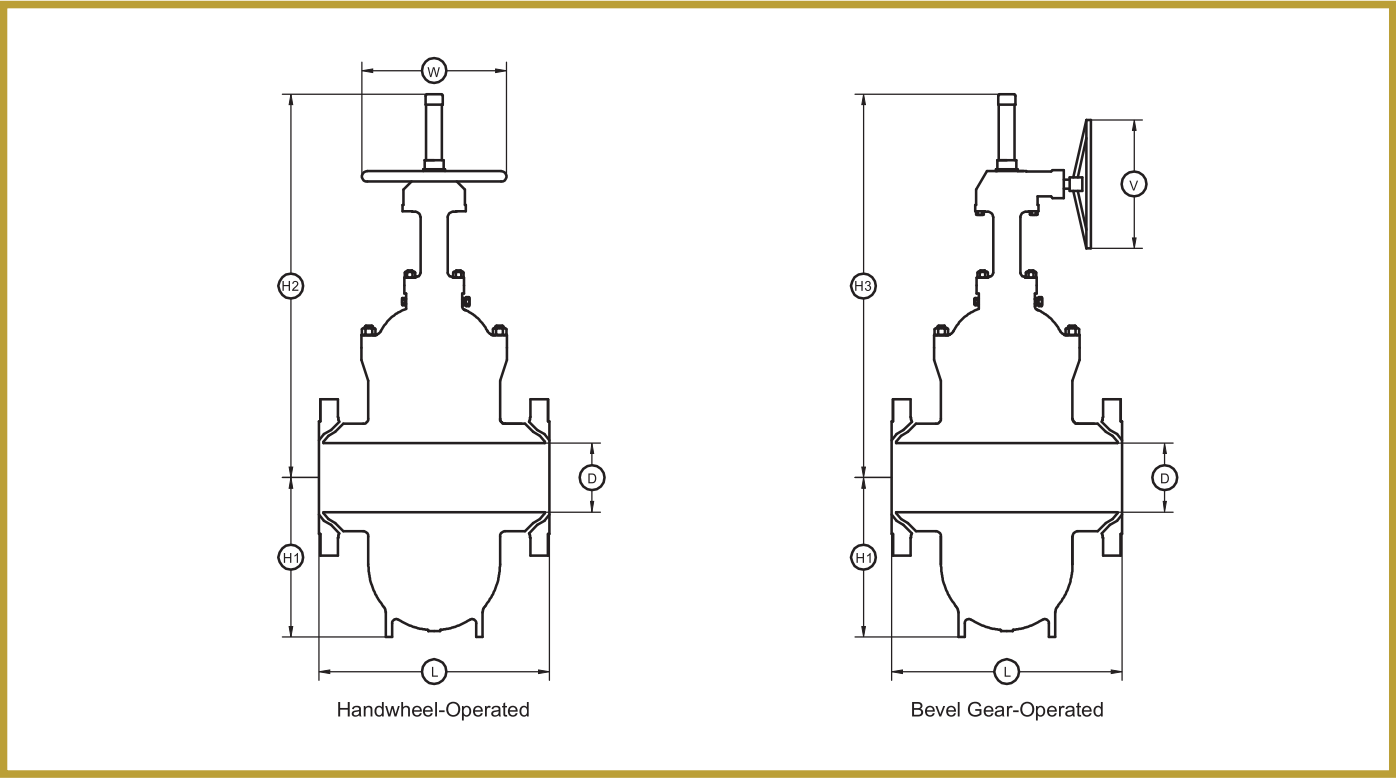
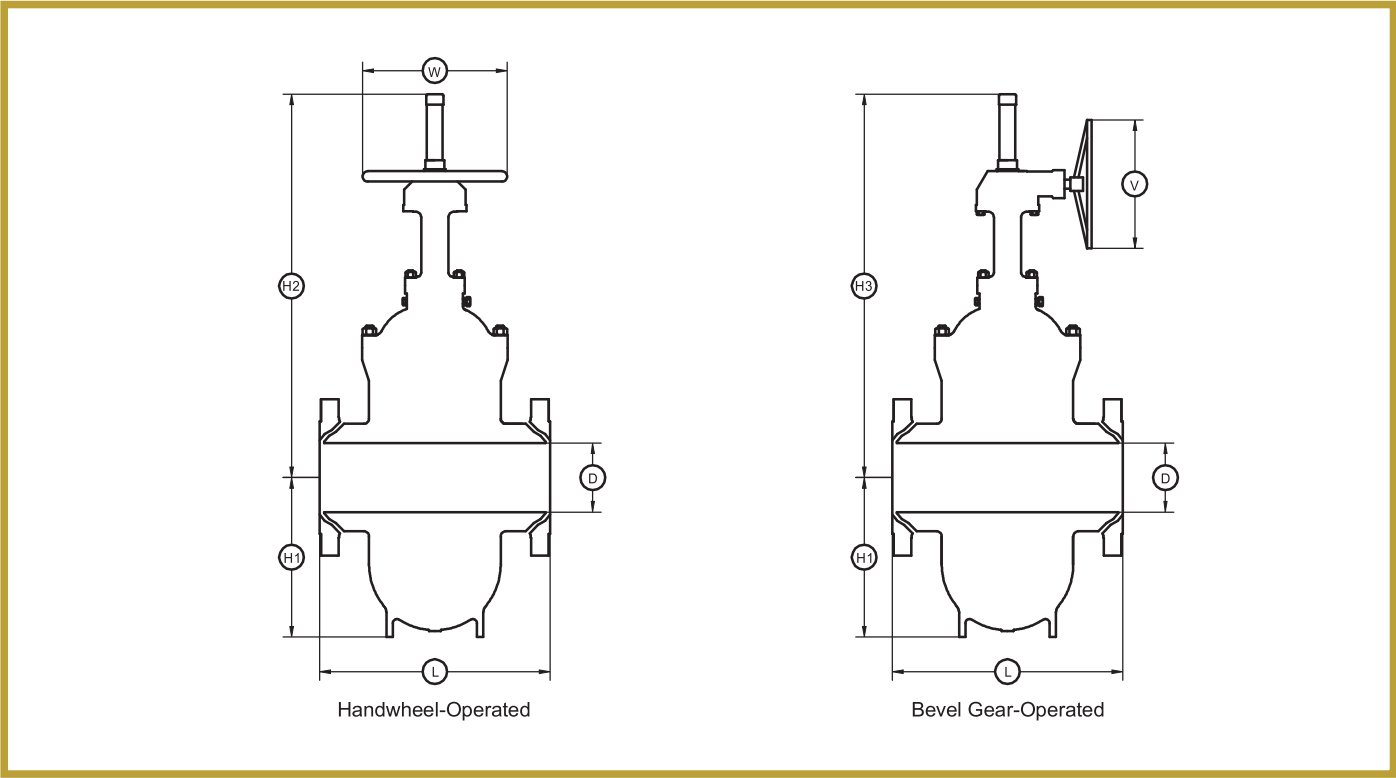
25	RIVET
26	NAME PLATE
27	CUTTING SLEEVE
28	SEAT RING
29	PIN
30	SEAT INJECTION
31	GEARBOX HOUSING
32	ARM
33	MAIN SLAB
34	SUB-SLAB
35	PLUG
36	BOTTOM BLOCK
37	CHECK VALVE
38	STEEL PIPE
39	STEEL PIPE
40	STEEL PIPE
41	GLOBE VALVE
42	CUTTING SLEEVE
43	STEEL PIPE
44	CUTTING SLEEVE
45	VENT VALVE
46	TEE JOINT
47	PLUG
48	INDICATE PLATE

Service	Class	Body & Bonnet	Trim (Optional Material)					Stem Seal	Bolting	Fittings
			Seat Insert	O Ring	Stem	Gate	Seat			
Standard -20°F to 250°F -29°C to 121°C	150~600	C00 & C01 Carbon Steel	RPTFE (DEVLON / NYLON / PEEK)	HNBR (VITON/FFKM)	S83 (17-4PH/XM-19)	C40 (Carbon Steel) Nickel Plated	C40 (Carbon Steel) Nickel Plated	PTFE & Graphite	B7 / 2H	Stainless Steel
	900~2500	C00 & C01 Carbon Steel	RPTFE (DEVLON / NYLON / PEEK)	HNBR (VITON/FFKM)	S83 (17-4PH/XM-19)	S83 STL Overlay	S83 STL Overlay			
Corrosive Service -20°F to 250°F -29°C to 121°C	150~600	C00 & C01 Carbon Steel	RPTFE (DEVLON / NYLON / PEEK)	HNBR (VITON/FFKM)	S83 (17-4PH/XM-19)	S83 (Stainless Steel)	S83 (Stainless Steel)	PTFE & Graphite	B7 / 2H	Stainless Steel
	900~2500	C00 & C01 Carbon Steel	RPTFE (DEVLON / NYLON / PEEK)	HNBR (VITON/FFKM)	S83 (17-4PH/XM-19)	S83 (Stainless Steel) STL Overlay	S83 (Stainless Steel) STL Overlay			
Sour, Mildly Corrosive -20°F to 250°F -29°C to 121°C	150~600	C00 & C01 Carbon Steel	RPTFE (DEVLON / NYLON / PEEK)	HNBR (VITON/FFKM)	S83 (17-4PH/XM-19) NACE	C40 (Carbon Steel) Nickel Plated	C40 (Carbon Steel) Nickel Plated	PTFE & Graphite	B7M/2HM	Stainless Steel
	900~2500	C00 & C01 Carbon Steel	RPTFE (DEVLON / NYLON / PEEK)	HNBR (VITON/FFKM)	S83 (17-4PH/XM-19) NACE	S83 NACE STL Overlay	S83 NACE STL Overlay			
Low Temperature Non-Sour -50°F to 250°F -46°C to 121°C	150~600	L20 & L21 Carbon Steel Impact Tested	RPTFE (DEVLON / NYLON / PEEK)	HNBR-LION 985 (EPDM / FFKM)	17-4PH (XM-19)	L70 Nickel Plated (Carbon Steel)	L70 Nickel Plated (Carbon Steel)	PTFE & Graphite	L7M/7M	Stainless Steel
	900~2500	L20 & L21 Carbon Steel Impact Tested	RPTFE (DEVLON / NYLON / PEEK)	HNBR-LION 985 (EPDM / FFKM)	17-4PH (XM-19)	S40 STL Overlay	S40 STL Overlay			
Cryogenic Service Non-Sour -166°F to 250°F -110°C to 121°C	150~600	S01 (Austenitic Stainless Steel / Nickel Base Alloy)	RPTFE (DEVLON / NYLON / PEEK)	Lip Seal	17-4PH (A638 660/Austenitic Stainless Steel/ Nickel Base Alloy)	S41 (Austenitic Stainless Steel / Nickel Base Alloy)	S41 (Austenitic Stainless Steel / Nickel Base Alloy)	PTFE & Graphite	B8(2)/8	Stainless Steel
	900~2500	S01 (Austenitic Stainless Steel / Nickel Base Alloy)	RPTFE (DEVLON / NYLON / PEEK)	Lip Seal	17-4PH (A638 660/Austenitic Stainless Steel/ Nickel Base Alloy)	S41 (Austenitic Stainless Steel / Nickel Base Alloy) STL Overlay	S41 (Austenitic Stainless Steel / Nickel Base Alloy) STL Overlay			
Metal Seated (Granular Service) -20°F to 250°F -29°C to 121°C	150~2500	Carbon Steel (Austenitic Stainless Steel / Nickel Base Alloy)	N / A	HNBR (VITON / FFKM / Lip Seal)	S83 (17-4PH/XM-19)	S83 (Austenitic Stainless Steel / Nickel Base Alloy) STL Overlay	S83 (Austenitic Stainless Steel / Nickel Base Alloy) STL Overlay	PTFE & Graphite	B7/2H (B7M/2HM L7M/7M B8(2)/8)	Stainless Steel



Class 150

Size		H1		Travel		H2		H3		L						D		φ W		φ V		Weight
										BW		RF		RTJ								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	kg
2	50	5.24	133	2.50	65	21.54	547	—	—	8.50	216	7.01	178	7.52	191	2.00	51	7.09	180	—	—	34
2-1/2	65	7.09	180	3.07	78	23.35	593	—	—	9.49	241	7.52	191	8.00	203	2.50	64	7.87	200	—	—	48
3	80	7.48	190	3.50	89	26.57	675	—	—	11.14	283	8.00	203	8.50	216	3.00	76	9.84	250	—	—	56
4	100	9.96	253	4.76	121	28.66	728	—	—	12.01	305	9.02	229	9.49	241	4.00	102	7.87	200	—	—	84
6	150	13.78	350	6.93	176	41.54	1055	40.63	1032	15.87	403	10.51	267	10.98	279	6.00	152	9.84	250	12.01	305	142
8	200	16.54	420	8.94	227	49.49	1257	50.35	1279	16.50	419	11.50	292	12.01	305	8.00	203	11.81	300	12.01	305	236
10	250	19.69	500	10.94	278	57.05	1449	57.72	1466	17.99	457	12.99	330	13.50	343	10.00	254	13.78	350	12.01	305	352
12	300	22.83	580	13.43	341	65.94	1675	66.14	1680	19.76	502	14.02	356	14.49	368	12.00	305	15.75	400	12.01	305	450
14	350	24.80	630	14.61	371	73.50	1867	72.64	1845	25.22	572	15.00	381	15.51	394	13.25	337	17.72	450	12.01	305	600
16	400	28.66	728	16.69	424	80.20	2037	79.76	2026	24.02	610	15.98	406	16.50	419	15.25	387	19.69	500	17.72	458	736
18	450	31.69	805	18.90	480	87.52	2223	89.09	2263	25.98	660	17.01	432	15.72	445	17.25	438	21.65	550	17.72	458	890
20	500	35.04	890	20.94	532	24.12	2412	96.50	2451	27.99	711	17.99	457	18.50	470	19.25	489	23.62	600	24.02	610	1120
22	550	38.58	980	22.99	584	—	—	106.50	2705	—	—	20.00	508	—	—	21.25	540	—	—	24.02	610	1700
24	600	41.73	1060	24.88	632	—	—	115.16	2925	32.01	813	20.00	508	20.51	521	23.25	591	—	—	24.02	610	2010
26	650	45.28	1150	26.89	683	—	—	121.18	3078	34.02	864	22.01	559	—	—	25.00	635	—	—	24.02	610	2320
28	700	48.43	1230	28.74	730	—	—	126.93	3224	35.98	914	24.02	610	—	—	27.00	686	—	—	24.02	610	2650
30	750	51.57	1310	31.26	794	—	—	137.95	3504	35.98	914	25.98	660	—	—	29.00	737	—	—	24.02	610	2920
32	800	54.02	1372	32.80	833	—	—	142.64	3623	37.99	965	27.99	711	—	—	30.75	781	—	—	24.02	610	3580
34	850	57.80	1468	34.92	887	—	—	149.69	3802	40.00	1016	30.00	762	—	—	32.75	832	—	—	24.02	610	4280
36	900	62.99	1600	36.10	917	—	—	156.18	3967	40.00	1016	32.01	813	—	—	34.50	876	—	—	24.02	610	5370
40	1000	65.00	1651	10.87	1038	—	—	165.39	4201	35.98	914	35.98	914	—	—	38.50	978	—	—	24.02	610	6820
42	1050	71.54	1817	42.44	1078	—	—	184.13	4677	37.99	965	37.99	965	—	—	40.25	1022	—	—	24.02	610	7460
48	1200	78.86	2003	48.94	1243	—	—	198.11	5032	44.02	1118	44.02	1118	—	—	46.00	1168	—	—	31.89	810	10480

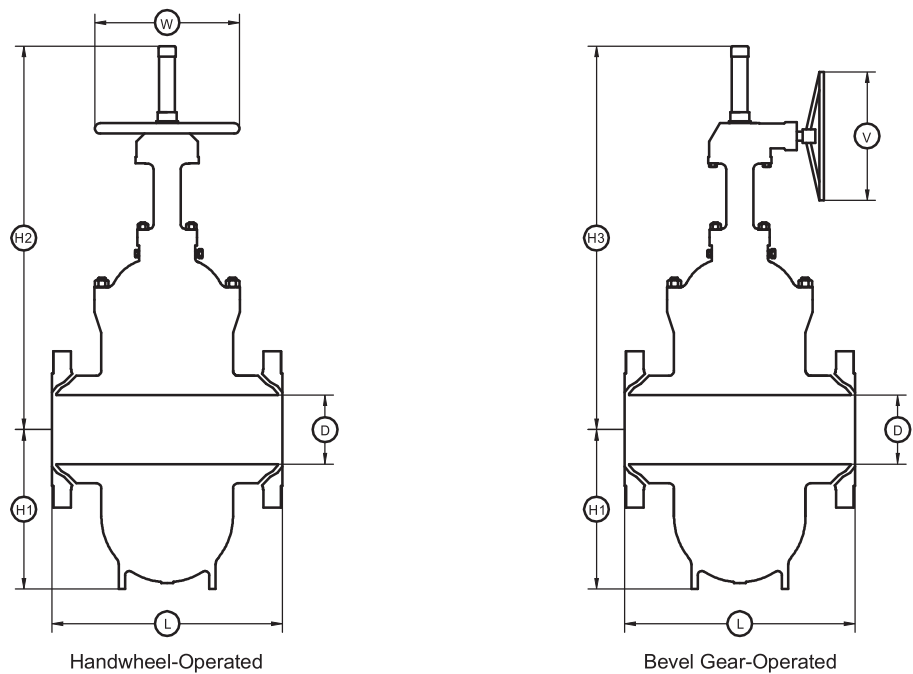
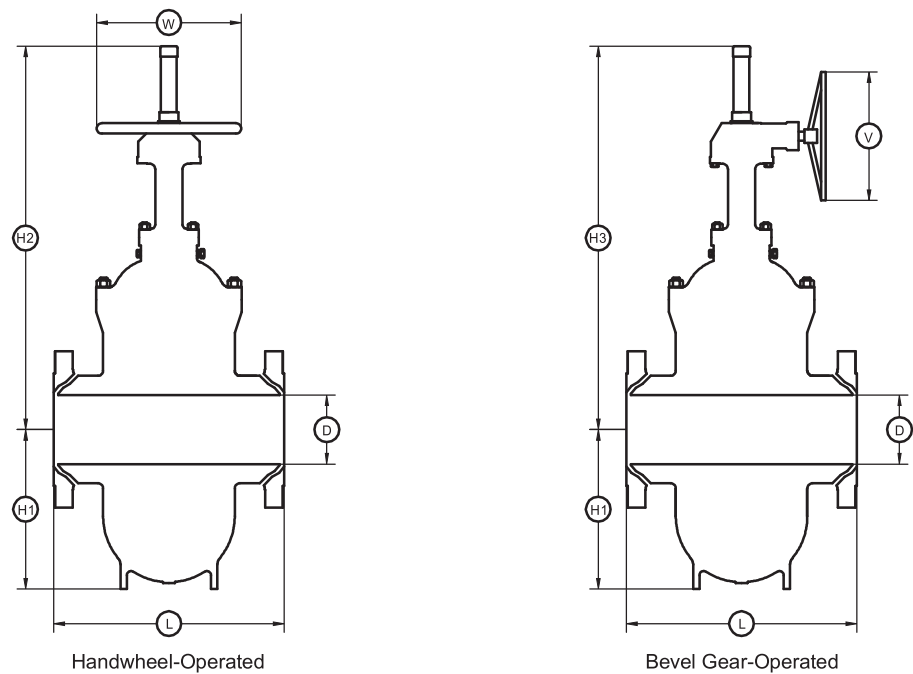


Class 300

Size		H1		Travel		H2		H3		L						D		ϕ W		ϕ V		Weight
										BW		RF		RTJ								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	kg
2	50	5.24	133	2.50	65	21.54	481	—	—	8.50	216	8.50	216	9.13	232	2.00	51	7.09	180	—	—	54
2-1/2	65	7.68	195	3.23	82	23.35	593	—	—	9.49	241	9.49	241	10.12	257	2.50	64	7.87	200	—	—	72
3	80	8.58	218	3.78	96	26.38	670	—	—	11.14	283	11.14	283	11.73	298	3.00	76	9.84	250	—	—	85
4	100	9.96	253	4.76	121	32.20	818	—	—	12.01	305	12.01	305	12.64	321	4.00	102	9.84	250	—	—	112
6	150	13.98	355	6.93	176	42.05	1068	42.87	1089	15.87	403	15.87	403	16.50	419	6.00	152	11.81	300	12.01	305	240
8	200	16.73	425	8.94	227	49.80	1265	49.49	1257	16.50	419	16.50	419	17.13	435	8.00	203	13.78	350	12.01	305	365
10	250	20.08	510	10.94	278	58.74	1492	41.61	1057	17.99	457	17.99	457	18.62	473	10.00	254	15.75	400	12.01	305	500
12	300	23.23	590	13.43	341	69.57	1767	67.24	1708	19.76	502	19.76	502	20.39	518	12.00	305	17.72	450	12.01	305	757
14	350	25.75	654	14.61	371	75.20	1910	72.32	1837	30.00	762	30.00	762	30.63	778	13.25	337	19.69	500	12.01	305	1050
16	400	28.54	725	16.69	424	84.84	2155	81.02	2058	32.99	838	32.99	838	33.62	854	15.25	387	29.92	760	17.72	458	1480
18	450	31.50	800	18.58	472	—	—	90.75	2305	35.98	914	35.98	914	36.61	930	17.25	438	—	—	24.02	610	2040
20	500	37.40	950	20.94	532	—	—	99.92	2538	39.02	991	39.02	991	39.76	1010	19.25	489	—	—	24.02	610	2650
22	550	42.83	1088	22.68	576	—	—	106.30	2700	42.99	1092	42.99	1092	43.86	1114	21.25	540	—	—	24.02	610	3500
24	600	42.32	1075	25.08	637	—	—	119.21	3028	45.00	1143	45.00	1143	45.87	1165	23.25	591	—	—	24.02	610	4260
26	650	47.24	1200	26.89	683	—	—	121.06	3075	49.02	1245	49.02	1245	50.00	1270	25.00	635	—	—	24.02	610	4800
28	700	49.21	1250	28.74	730	—	—	128.19	3256	52.99	1346	52.99	1346	54.02	1372	27.00	686	—	—	24.02	610	5510
30	750	52.17	1325	31.26	794	—	—	142.05	3608	55.00	1397	55.00	1397	55.98	1422	29.00	737	—	—	24.02	610	6300
32	800	59.06	1500	33.66	855	—	—	154.72	3930	60.00	1524	60.00	1524	61.14	1553	30.75	781	—	—	24.02	610	7000
34	850	58.66	1490	34.92	887	—	—	153.15	3890	64.02	1626	64.02	1626	65.12	1654	32.75	832	—	—	24.02	610	7900
36	900	62.99	1600	36.77	934	—	—	170.28	4325	67.99	1727	67.99	1727	69.13	1756	34.50	876	—	—	31.89	810	8900
40	1000	66.10	1679	40.87	1038	—	—	169.09	4295	—	—	75.98	1930	—	—	38.50	978	—	—	31.89	810	12800
42	1050	70.79	1798	43.23	1098	—	—	181.50	4610	—	—	79.02	2007	—	—	40.25	1022	—	—	31.89	810	15000
48	1200	80.31	2040	48.94	1243	—	—	201.57	5120	—	—	90.00	2286	—	—	—	—	—	—	31.89	810	22300

Class 600

Size		H1		Travel		H2		H3		L						D		ϕ W		ϕ V		Weight
										BW		RF		RTJ								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	kg
2	50	5.24	133	2.50	65	21.54	547	—	—	11.50	292	11.50	292	11.61	295	2.00	51	7.09	180	—	—	66
2-1/2	65	7.48	190	3.15	80	25.39	645	—	—	12.99	330	12.99	330	13.11	333	2.50	64	9.84	250	—	—	90
3	80	8.07	205	3.66	93	28.82	732	—	—	14.02	356	14.02	356	14.13	359	3.00	76	9.84	250	—	—	110
4	100	10.04	255	4.76	121	34.09	866	35.35	898	17.01	432	17.01	432	17.13	435	4.00	102	13.78	350	12.01	305	156
6	150	14.37	365	6.93	176	42.13	1070	44.65	1134	22.01	559	22.01	559	22.13	562	6.00	152	17.72	450	12.01	305	296
8	200	16.54	420	8.94	227	46.77	1188	52.09	1323	25.98	660	25.98	660	26.14	664	8.00	203	19.69	500	12.01	305	640
10	250	20.28	515	10.94	278	62.01	1575	62.32	1583	30.98	787	30.98	787	31.14	791	10.00	254	19.69	500	12.01	305	900
12	300	24.72	628	13.43	341	70.08	1780	71.34	1812	32.99	838	32.99	838	33.11	841	12.00	305	29.92	760	17.72	458	1135
14	350	26.54	674	14.61	371	—	—	73.27	1861	35.00	889	35.00	889	35.12	892	13.25	337	—	—	17.72	458	1700
16	400	30.51	775	16.69	424	—	—	84.29	2141	39.02	991	39.02	991	39.13	994	15.25	387	—	—	24.02	610	2350
18	450	33.86	860	18.90	480	—	—	95.51	2426	42.99	1092	42.99	1092	43.11	1095	17.25	438	—	—	24.02	610	2776
20	500	37.40	950	20.87	530	—	—	116.34	2955	47.01	1194	47.01	1194	47.24	1200	19.25	489	—	—	24.02	610	4210
22	550	43.31	1100	22.87	581	—	—	107.48	2730	50.98	1295	50.98	1295	51.38	1305	21.25	540	—	—	24.02	610	5530
24	600	43.82	1113	25.91	658	—	—	127.28	3233	55.00	1397	55.00	1397	55.39	1407	23.25	591	—	—	24.02	610	4930
26	650	88.58	2250	27.28	693	—	—	130.24	3308	57.01	1448	57.01	1448	57.52	1461	25.00	635	—	—	31.89	810	6010
28	700	50.00	1270	28.74	730	—	—	136.81	3475	60.98	1549	60.98	1549	61.50	1562	27.00	686	—	—	31.89	810	8100
30	750	56.46	1434	36.61	803	—	—	145.28	3690	65.00	1651	65.00	1651	65.51	1664	29.00	737	—	—	31.89	810	7910
32	800	56.30	1430	32.80	833	—	—	153.15	3890	70.00	1778	70.00	1778	70.63	1794	30.75	781	—	—	31.89	810	11500
34	850	59.06	1500	34.92	887	—	—	158.66	4030	75.98	1930	75.98	1930	76.61	1946	32.75	832	—	—	31.89	810	13100
36	900	64.65	1642	36.77	934	—	—	172.80	4389	82.01	2083	82.01	2083	82.64	2099	34.50	876	—	—	47.24	1200	15200
40	1000	67.32	1710	40.87	1038	—	—	172.64	4385	—	—	94.02	2388	—	—	38.50	978	—	—	31.89	810	18600
42	1050	79.13	2010	45.47	1155	—	—	214.84	5457	—	—	95.98	2438	—	—	40.25	1022	—	—	47.24	1200	20600
48	1200	80.71	2050	48.94	1243	—	—	210.04	5335	—	—	110.00	2794	—	—	—	—	—	—	31.89	810	28500



Class 900

Class 1500

Size		H1		Travel		H2		H3		L						D		ϕ W		ϕ V		Weight
										BW		RF		RTJ								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	kg
2	50	6.14	156	2.76	70	29.33	745	—	—	14.49	368	14.49	368	14.61	371	2.00	51	9.84	250	—	—	102
2-1/2	65	6.77	172	3.23	82	32.09	815	—	—	16.50	419	16.50	419	16.61	422	2.50	64	9.84	250	—	—	115
3	80	7.48	190	3.66	93	34.88	886	—	—	15.00	381	15.00	381	15.12	384	3.00	76	11.81	300	—	—	162
4	100	11.26	286	5.00	127	31.89	810	—	—	17.99	457	17.99	457	18.11	460	4.00	102	15.75	400	—	—	286
6	150	14.57	370	7.01	178	41.85	1063	47.68	1211	24.02	610	24.02	610	24.13	613	6.00	152	19.69	500	17.72	458	532
8	200	16.73	425	8.94	227	50.20	1275	54.13	1375	29.02	737	29.02	737	29.13	740	8.00	203	23.62	600	12.01	305	970
10	250	20.28	515	10.87	276	—	—	61.02	1550	32.99	838	32.99	838	33.11	841	10.00	254	—	—	17.72	458	1305
12	300	25.59	650	13.43	341	—	—	74.13	1883	37.99	965	37.99	965	38.11	968	12.00	305	—	—	24.02	610	2000
14	350	30.12	765	14.17	360	—	—	82.28	2090	40.51	1029	40.51	1029	40.87	1038	12.76	324	—	—	24.02	610	2600
16	400	29.72	755	16.30	414	—	—	83.35	2117	44.49	1130	44.49	1130	44.88	1140	14.76	375	—	—	24.02	610	3210
18	450	37.40	950	18.50	470	—	—	107.09	2720	47.99	1219	47.99	1219	48.50	1232	16.73	425	—	—	31.89	810	4000
20	500	41.73	1060	20.79	528	—	—	122.83	3120	52.01	1321	52.01	1321	52.52	1334	18.62	473	—	—	31.89	810	5120
24	600	46.85	1190	24.80	630	—	—	150.79	3830	60.98	1549	60.98	1549	61.73	1568	22.52	572	—	—	31.89	810	9400
26	650	50.00	1270	27.24	692	—	—	157.48	4000	—	—	—	—	—	—	24.38	619	—	—	31.89	810	12200
28	700	53.15	1350	29.13	740	—	—	164.17	4170	—	—	—	—	—	—	26.25	667	—	—	47.24	1200	14800
30	750	56.69	1440	31.10	790	—	—	170.67	4335	83.00	2108	—	—	—	—	28.13	714	—	—	47.24	1200	17600
32	800	60.24	1530	33.27	845	—	—	178.74	4540	—	—	—	—	—	—	30.00	762	—	—	47.24	1200	20000
34	850	63.39	1610	35.43	900	—	—	188.98	4800	—	—	—	—	—	—	31.88	810	—	—	47.24	1200	23600
36	900	66.93	1700	37.09	942	—	—	205.31	5215	—	—	—	—	—	—	33.75	857	—	—	47.24	1200	27500

Size		H1		Travel		H2		H3		L						D		ϕ W		ϕ V		Weight
										BW		RF		RTJ								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	kg
2	50	6.30	160	2.99	76	26.77	680	—	—	14.49	368	14.49	368	14.61	371	2.00	51	15.75	400	—	—	120
2-1/2	65	7.09	180	3.39	86	28.82	732	—	—	16.50	419	16.50	419	16.61	422	2.50	64	15.75	400	—	—	200
3	80	7.95	202	3.86	98	30.91	785	—	—	18.50	470	18.50	470	18.62	473	3.00	76	19.69	500	—	—	260
4	100	11.26	286	5.20	132	33.07	840	—	—	21.50	546	21.50	546	21.61	549	4.00	102	23.62	600	—	—	380
6	150	14.96	380	6.93	176	45.67	1160	53.94	1370	27.76	705	27.76	705	27.99	711	5.75	146	31.50	800	23.62	600	910
8	200	19.09	485	8.94	227	—	—	59.84	1520	32.76	832	32.76	832	33.11	841	7.64	194	—	—	31.50	800	1520
10	250	24.02	610	11.02	280	—	—	69.49	1765	39.02	991	39.02	991	39.37	1000	9.49	241	—	—	31.50	800	2280
12	300	27.95	710	13.58	345	—	—	71.85	1825	44.49	1130	44.49	1130	45.12	1146	11.38	289	—	—	31.50	800	3300
14	350	31.10	790	14.37	365	—	—	84.25	2140	49.49	1257	49.49	1257	50.24	1276	12.52	318	—	—	31.50	800	4600
16	400	35.04	890	16.54	420	—	—	93.70	2380	54.49	1384	54.49	1384	55.39	1407	14.25	362	—	—	31.50	800	5920
18	450	38.98	990	18.50	470	—	—	109.45	2780	60.51	1537	60.51	1537	61.38	1559	15.98	406	—	—	31.50	800	7500
20	500	42.91	1090	20.94	532	—	—	132.28	3360	65.51	1664	65.51	1664	66.38	1686	17.87	454	—	—	31.50	800	10600
22	550	47.05	1195	22.05	560	—	—	140.94	3580	—	—	—	—	—	—	19.69	500	—	—	31.50	800	14700
24	600	50.00	1270	23.62	600	—	—	156.30	3970	76.50	1943	76.50	1943	76.50	1972	21.50	546	—	—	47.24	1200	17200
26	650	53.74	1365	25.28	642	—	—	167.32	4250	—	—	—	—	—	—	—	—	—	—	47.24	1200	19800
28	700	56.89	1445	27.17	690	—	—	180.12	4575	—	—	—	—	—	—	—	—	—	—	47.24	1200	32200
30	750	60.24	1530	28.86	733	—	—	191.54	4865	—	—	—	—	—	—	—	—	—	—	47.24	1200	34800
32	800	63.98	1625	30.71	780	—	—	203.35	5165	—	—	—	—	—	—	—	—	—	—	47.24	1200	37400
34	850	67.13	1705	32.76	832	—	—	213.98	5435	—	—	—	—	—	—	—	—	—	—	47.24	1200	40000
36	900	70.28	1785	34.88	886	—	—	224.41	5700	—	—	—	—	—	—	—	—	—	—	—	—	42900

Class 150 (290 Psig)											
Size	Minimum Bore (mm)	Stem Thread (inch)	Stem dia. (mm)	Pitch (mm)	Lead (mm)	Travel (mm)	Stem Nut Turns to Open Valve	Block-&-Bleed Thrust (N)	Block-&-Bleed Torque (N.m)	Maximum Allowable Stem Torque (N.m)	Top Flange
2	51	3 / 4	20	4.23	4.23	66	16	4563	9	80	F10
3	76	7 / 8	24	4.23	4.23	90	21	6038	13	100	F10
4	102	7 / 8	24	4.23	4.23	123	29	7563	17	100	F10
6	152	1	26	5.08	5.08	178	35	9307	24	260	F14
8	203	1 - 1 / 8	30	5.08	5.08	229	45	13371	37	390	F14
10	254	1 - 1 / 4	32	5.08	5.08	280	55	15718	48	550	F14
12	305	1 - 3 / 8	36	6.35	6.35	343	54	18649	64	700	F14
14	337	1 - 1 / 2	40	6.35	6.35	373	59	23152	85	940	F16
16	387	1 - 5 / 8	42	6.35	6.35	426	67	27296	107	1215	F16
18	438	1 - 3 / 4	46	6.35	6.35	482	76	33608	139	1500	F16
20	489	1 - 7 / 8	48	6.35	6.35	534	84	38819	170	1925	F25
22	540	2	52	6.35	6.35	586	92	47578	220	2350	F25
24	591	2 - 1 / 8	55	8.47	8.47	639	75	56099	287	2735	F25
26	635	2 - 1 / 4	60	8.47	8.47	685	81	64322	345	3070	F25
28	686	2 - 1 / 4	60	8.47	8.47	730	86	67701	363	3070	F25
30	737	2 - 1 / 2	65	8.47	8.47	796	94	77818	454	4520	F30
32	781	2 - 1 / 2	65	8.47	8.47	845	100	81133	473	4520	F30
34	832	2 - 3 / 4	70	8.47	8.47	890	105	87165	550	6200	F30
36	876	2 - 3 / 4	70	8.47	8.47	920	109	95181	601	6200	F30
40	978	3	80	12.7	12.7	1030	81	114390	838	8150	F35
42	1022	3 - 1 / 4	85	12.7	12.7	1080	85	134821	979	9700	F35

Note: ※ The seat material is RPTFE.
※ The maximum allowable stem torque is base on F6a stem material.

Class 300 (750 Psig)											
Size	Minimum Bore (mm)	Stem Thread (inch)	Stem dia. (mm)	Pitch (mm)	Lead (mm)	Travel (mm)	Stem Nut Turns to Open Valve	Block-&-Bleed Thrust (N)	Block-&-Bleed Torque (N.m)	Maximum Allowable Stem Torque (N.m)	Top Flange
2	51	3 / 4	20	4.23	4.23	66	16	6136	12	80	F10
3	76	7 / 8	24	4.23	4.23	90	21	9895	22	100	F10
4	102	7 / 8	24	4.23	4.23	123	29	11736	26	100	F10
6	152	1 - 1 / 8	30	5.08	5.08	179	35	18474	52	390	F10
8	203	1 - 1 / 4	32	5.08	5.08	229	45	23269	70	550	F14
10	254	1 - 3 / 8	36	6.35	6.35	280	44	28354	97	700	F14
12	305	1 - 1 / 2	40	6.35	6.35	343	54	38878	142	940	F16
14	337	1 - 5 / 8	42	6.35	6.35	373	59	43695	171	1215	F16
16	387	1 - 3 / 4	46	6.35	6.35	430	68	56264	233	1500	F16
18	438	1 - 7 / 8	48	6.35	6.35	482	76	63547	278	1925	F25
20	489	2	52	6.35	6.35	534	84	81586	376	2350	F25
24	591	2 - 1 / 4	60	8.47	8.47	639	75	109390	586	3070	F30
26	635	2 - 1 / 2	65	8.47	8.47	685	81	136444	796	4520	F30
30	737	2 - 3 / 4	70	8.47	8.47	796	94	161790	1021	6200	F35
32	781	3 - 1 / 4	85	12.70	12.70	858	68	194790	1520	9700	F35
36	876	3 - 1 / 2	90	12.70	12.70	937	74	242309	2005	12510	F35

Note: ※ The seat material is RPTFE.
※ The maximum allowable stem torque is base on F6a stem material.

Class 600 (1500 Psig)											
Size	Minimum Bore (mm)	Stem Thread (inch)	Stem dia. (mm)	Pitch (mm)	Lead (mm)	Travel (mm)	Stem Nut Turns to Open Valve	Block-&-Bleed Thrust (N)	Block-&-Bleed Torque (N.m)	Maximum Allowable Stem Torque (N.m)	Top Flange
2	51	3 / 4	20	4.23	4.23	66	16	10985	22	80	F10
3	76	7 / 8	24	4.23	4.23	95	22	18353	40	100	F10
4	102	1	26	5.08	5.08	123	24	23938	61	260	F14
6	152	1 - 1 / 8	30	5.08	5.08	179	35	35794	100	390	F14
8	203	1 - 1 / 2	40	6.35	6.35	229	36	54101	198	940	F16
10	254	1 - 5 / 8	42	6.35	6.35	280	44	68135	266	1215	F16
12	305	1 - 7 / 8	48	6.35	6.35	343	54	90377	396	1925	F25
14	337	2	52	6.35	6.35	373	59	107350	495	2350	F25
16	387	2 - 1 / 8	55	8.47	8.47	426	50	131012	671	2735	F30
18	438	2 - 1 / 4	60	8.47	8.47	482	57	155642	834	3070	F30
20	489	2 - 1 / 2	65	8.47	8.47	534	63	188037	1097	4520	F30
22	540	2 - 3 / 4	70	8.47	8.47	586	69	209602	1322	6200	F30
24	591	2 - 7 / 8	75	12.70	12.70	660	52	301746	2139	6650	F35
26	635	3 - 1 / 4	85	12.70	12.70	695	55	349776	2729	9700	F35
28	684	3 - 1 / 4	85	12.70	12.70	744	59	356206	2780	9700	F35
30	737	3 - 1 / 2	90	12.70	12.70	805	63	395254	3271	12510	F40

Note: ※ The seat material is RPTFE.
※ The maximum allowable stem torque is base on F6a stem material.

Class 900 (2250 Psig)											
Size	Minimum Bore (mm)	Stem Thread (inch)	Stem dia. (mm)	Pitch (mm)	Lead (mm)	Travel (mm)	Stem Nut Turns to Open Valve	Block-&-Bleed Thrust (N)	Block-&-Bleed Torque (N.m)	Maximum Allowable Stem Torque (N.m)	Top Flange
2	51	3 / 4	20	4.23	4.23	72	17	29507	61	80	F10
3	76	1	26	5.08	5.08	95	19	44597	114	260	F10
4	100	1 - 1 / 8	30	5.08	5.08	124	24	65667	183	390	F10
6	152	1 - 5 / 8	42	6.35	6.35	180	28	112544	386	1215	F16
8	203	1 - 5 / 8	42	6.35	6.35	229	36	151235	590	1215	F16
10	254	1 - 7 / 8	48	6.35	6.35	277	44	198765	870	1925	F25
12	305	2 - 1 / 8	55	8.47	8.47	343	40	282158	1445	2735	F30
14	324	2 - 1 / 4	60	8.47	8.47	362	43	324857	1741	3070	F30
16	375	2 - 1 / 2	65	8.47	8.47	416	49	418358	2441	4520	F30
18	425	2 - 3 / 4	70	8.47	8.47	470	55	497069	3136	6200	F35
20	473	3 - 1 / 4	85	12.70	12.70	520	41	633867	4946	9700	F35
24	572	3 - 1 / 2	90	12.70	12.70	620	49	841812	6967	12510	F40

Note: ※ The seat material is RPTFE.
※ The maximum allowable stem torque is base on F6a stem material.

Class 1500 (3750 Psig)											
Size	Minimum Bore (mm)	Stem Thread (inch)	Stem dia. (mm)	Pitch (mm)	Lead (mm)	Travel (mm)	Stem Nut Turns to Open Valve	Block-&-Bleed Thrust (N)	Block-&-Bleed Torque (N.m)	Maximum Allowable Stem Torque (N.m)	Top Flange
2	51	3 / 4	20	4.23	4.23	72	17	45377	89	80	F14
3	76	1 - 1 / 2	40	6.35	6.35	105	17	87796	322	940	F16
4	100	1 - 5 / 8	42	6.35	6.35	138	22	116023	453	1215	F25
6	146	2 - 1 / 8	55	8.47	8.47	172	20	235384	1206	2735	F25
8	194	2	52	6.35	6.35	229	36	283036	1383	2350	F30

Note: ※ The seat material is RPTFE.
※ The maximum allowable stem torque is base on F6a stem material.



Class 150 (290 Psig)

Size	Minimum Bore (mm)	Stem Thread (inch)	Stem dia. (mm)	Pitch (mm)	Lead (mm)	Travel (mm)	Stem Nut Turns to Open Valve	Block-&-Bleed Thrust (N)	Block-&-Bleed Torque (N.m)	Maximum Allowable Stem Torque (N.m)	Top Flange
2GTM1	51	3 / 4	20	4.23	4.23	66	16	7592	15	—	F10
3GTM1	74	7 / 8	24	4.23	4.23	90	21	10836	23.9	—	F10
6GTM1	152	1	26	5.08	5.08	178	35	19562	50	—	F14
8GTM1	203	1 - 1 / 8	30	5.08	5.08	229	45	28952	80.8	—	F14
10GTM1	254	1 - 2 / 8	32	5.08	5.08	280	55	36870	111.6	—	F14
12GTM1	305	1 - 3 / 8	36	6.35	6.35	343	54	48366	165.8	—	F14
16GTM1	387	1 - 5 / 8	42	6.35	6.35	426	67	74123	289.2	—	F16
20GTM1	489	1 - 7 / 8	48	6.35	6.35	534	84	107176	469	—	F25
24GTM1	591	2 - 1 / 8	55	8.47	8.47	639	75	150849	772.7	—	F25
34GTM1	832	2 - 3 / 4	70	8.47	8.47	863	102	276186	1742.6	—	F30
2GTM3	51	3 / 4	20	4.23	4.23	66	16	12087	23.8	—	F10
4GTM3	102	7 / 8	24	5.08	5.08	123	24	29133	67.5	—	F10
6GTM3	152	1 - 1 / 8	30	5.08	5.08	179	35	48377	134.9	—	F10
8GTM3	203	1 - 1 / 4	32	5.08	5.08	229	45	65937	199.6	—	F14
10GTM3	254	1 - 3 / 8	36	6.35	6.35	280	44	82646	283.3	—	F14
12GTM3	305	1 - 1 / 2	40	6.35	6.35	343	54	112442	412	—	F16
14GTM3	337	1 - 5 / 8	42	6.35	6.35	373	59	128626	501.8	—	F16
16GTM3	387	1 - 3 / 4	46	6.35	6.35	430	68	169404	701.1	—	F16
20GTM3	489	2	52	6.35	6.35	534	84	260818	1203.5	—	F25
24GTM3	591	2 - 1 / 2	65	8.47	8.47	639	75	373927	2181.6	—	F30
2GTM6	51	3 / 4	20	4.23	4.23	66	16	20585	40.6	—	F10
3GTM6	76	7 / 8	24	5.08	5.08	95	19	39869	92.3	—	F14
4GTM6	102	1	26	5.08	5.08	123	24	55357	141.3	—	F14
6GTM6	152	1 - 1 / 2	40	6.35	6.35	179	28	96021	351.8	—	F16
8GTM6	203	1 - 3 / 4	46	6.35	6.35	229	36	139474	577.2	—	F25
10GTM6	254	1 - 7 / 8	48	6.35	6.35	280	44	190820	835	—	F25
12GTM6	305	1 - 7 / 8	48	6.35	6.35	343	54	246847	1080	—	F25
14GTM6	337	2	52	6.35	6.35	373	54	287603	1327.1	—	F25
16GTM6	387	2 - 1 / 2	65	8.47	8.47	426	44	398703	2326.1	—	F30
18GTM6	438	2 - 7 / 8	75	8.47	8.47	482	57	473455	3099.8	—	F35
20GTM6	489	2 - 1 / 2	65	8.47	8.47	534	63	511517	2984	—	F35
24GTM6	591	2 - 7 / 8	75	12.70	12.70	660	52	825775	5853	—	F40
32GTM6	781	4	105	12.70	12.70	858	68	1359946	12549.5	—	F48
14GTM9	324	2 - 1 / 4	60	8.47	8.47	362	43	403100	2160.8	—	F30
16GTM9	375	2 - 1 / 2	65	8.47	8.47	416	49	535488	3124.1	—	F40

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

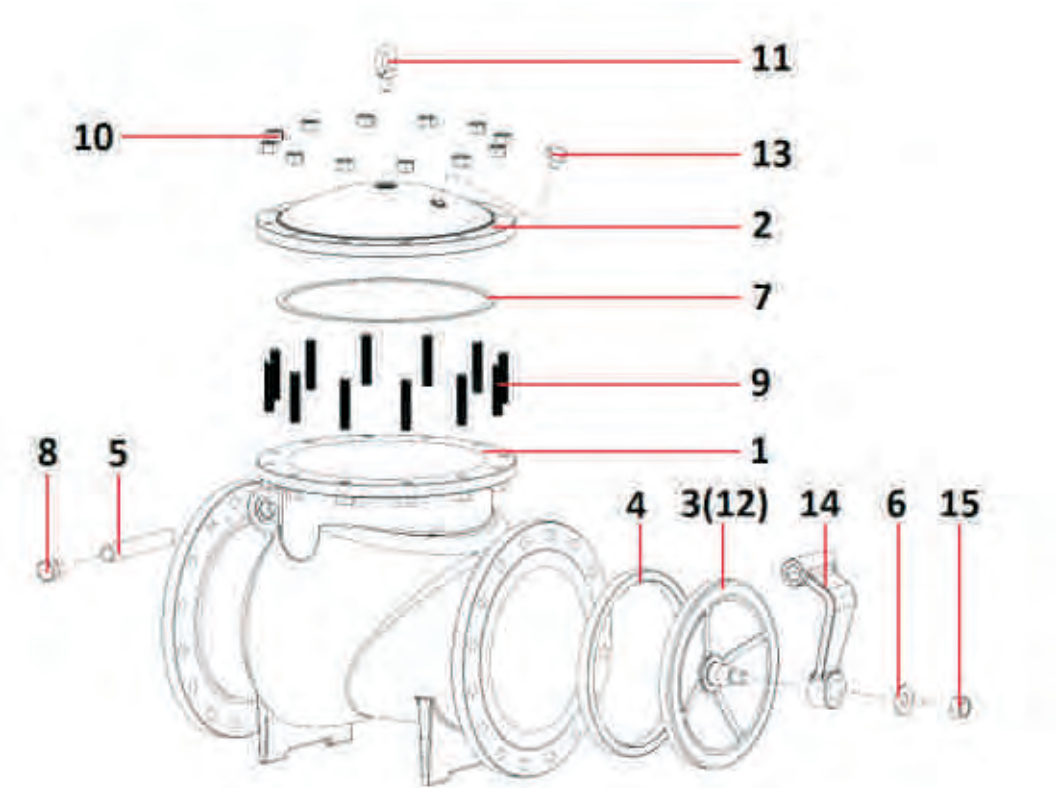
Drain Tapping
Neway swing check valves are normally provided with boss at location G, additional bosses can be provided upon request

- **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

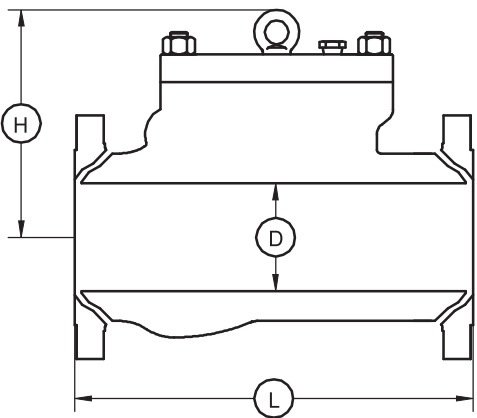
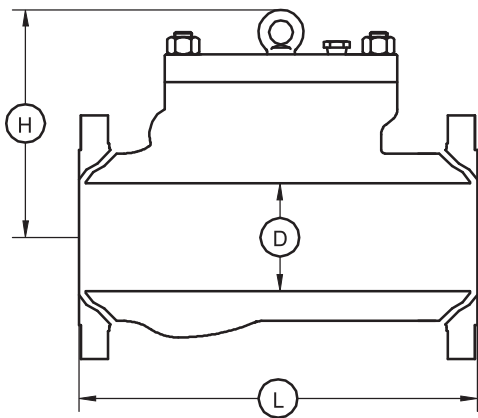
This is a typical NEWAY series SF full opening check valve section drawing which is only for demonstrating of basic design features. The actual product design may be slightly different from this sample drawing due to its size and pressure class.

General Assembling Drawing

Series SF Full Opening Check Valve



No.	Main Part Name	Standard	Sour	Low Temperature
1	Body	C00 & C01	C00 & C01	L20 & L21
2	Bonnet	C00 & C01 (C40)	C00 & C01 (C40)	L20 & L21 (L70)
3	Disc	C00 & C01	C00 & C01	L20 & L21
4	Seat Ring	C40	C40	L70
5	Hinge Pin	S82	S82-NACE	S40 & S41
6*	Washer	420	420-NACE	S40 & S41
7	Gasket	S40/S43 SS+Graphite	S40/S43 SS+Graphite	S40/S43 SS+Graphite
8	Plug	C40	C40	L70
9	Stud	B7	B7M	L7M
10	Nut	2H	2HM	7M
11	Hook Screw	AISI 1020	AISI 1020	S40
12*	O Ring	HNBR(VITON/FFKM)	HNBR(VITON/FFKM)	HNBR(VITON/FFKM)
13	Plug	C40	C40	L70
14*	Hinge	C00 & C01	C00 & C01	L20 & L21
15*	Nut	420	420-NACE	S40 & S41



Class 150

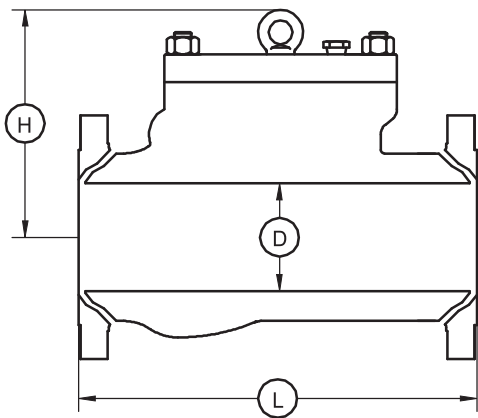
Size		A		H		BW		L RF		RTJ		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2	51	5.43	138	7.99	203	7.99	203	8.50	216	30.85	14
2 - 1 / 2	65	2.5	64	5.71	145	8.50	216	8.50	216	9.02	229		
3	80	3	76	5.94	151	9.49	241	9.49	241	10.00	254	48.49	22
4	100	4	102	6.81	173	11.50	292	11.50	292	12.01	305	66.12	30
6	150	6	152.4	11.42	290	14.02	356	14.02	356	14.49	368	158.69	72
8	200	8	203	13.07	332	19.49	495	19.49	495	20.00	508	304.15	138
10	250	10	254	15.98	406	24.49	622	24.49	622	25.00	635	409.94	186
12	300	12	305	18.11	460	27.52	699	27.52	699	27.99	711	577.45	262
14	350	13.25	337	19.61	498	30.98	787	30.98	787	31.50	800	740.54	336
16	400	15.25	387	22.72	577	34.02	864	34.02	864	34.49	876	936.70	425
18	450	17.25	438	23.03	585	38.50	978	38.50	978	39.02	991	1194.57	542
20	500	19.25	489	25.04	636	38.50	978	38.50	978	39.02	991	1664.02	755
22	550	21.25	540	27.99	711	42.01	1067	42.01	1067	42.52	1080		
24	600	23.25	591	30.04	763	50.98	1295	50.98	1295	51.50	1308	2622.76	1190
26	650	25.00	635	31.65	804	50.98	1295	50.98	1295	*	*	2975.40	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	*	*	4033.32	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	*	*	5906.72	2680
38	950	36.50	927			*	*	*	*	*	*		
40	1000	38.50	978			*	*	*	*	*	*	9190.68	4170
42	1050	40.25	1022	54.29	1379	*	*	*	*	*	*		
44	1100	*	*			*	*	*	*	*	*		
46	1150	*	*			*	*	*	*	*	*		
48	1200	46	1168	62.74	1593.5	*	*	*	*	*	*	14832.92	6730
50	1250	*	*	64.49	1638	*	*	*	*	*	*		
52	1300	*	*			*	*	*	*	*	*		
54	1350	51.75	1314			*	*	*	*	*	*		

*Upon Request
*Flanges up to 24 in.(600mm)(except 22 in.(550mm)) 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 300

Size		A		H		BW		L RF		RTJ		Weight	
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	41.88	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	66.12	30
4	100	4	102	8.39	213	14.02	356	14.02	356	14.61	371	114.61	52
6	150	6	152.4	11.10	282	17.52	445	17.52	445	18.11	460	224.81	102
8	200	8	203	12.32	313	20.98	533	20.98	533	21.61	549	412.15	187
10	250	10	254	16.14	410	24.49	622	24.49	622	25.12	638	568.63	258
12	300	12	305	18.86	479	27.99	711	27.99	711	28.62	727	705.28	320
14	350	13.25	337	22.28	566	32.99	838	32.99	838	33.62	854	903.64	410
16	400	15.25	387	25.20	640	34.02	864	34.02	864	34.61	879	1168.12	530
18	450	17.25	438	26.50	673	38.50	978	38.50	978	39.13	994	1503.13	682
20	500	19.25	489	28.66	728	40.00	1016	40.00	1016	40.75	1035	1741.16	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	3537.42	1605
26	650	25.00	635	37.28	947	52.99	1346	52.99	1346	54.02	1372	4419.02	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	4694.52	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	*	*	9036.40	4100
38	950	36.50	927			*	*	*	*	*	*		
40	1000	38.50	978			*	*	*	*	*	*	130701.61	59302
42	1050	40.25	1022			*	*	*	*	*	*		
44	1100	*	*			*	*	*	*	*	*		
46	1150	*	*			*	*	*	*	*	*		
48	1200	46	1168			*	*	*	*	*	*	26668.4	12100
50	1250	*	*			*	*	*	*	*	*		
52	1300	*	*			*	*	*	*	*	*		
54	1350	51.75	1314			*	*	*	*	*	*		

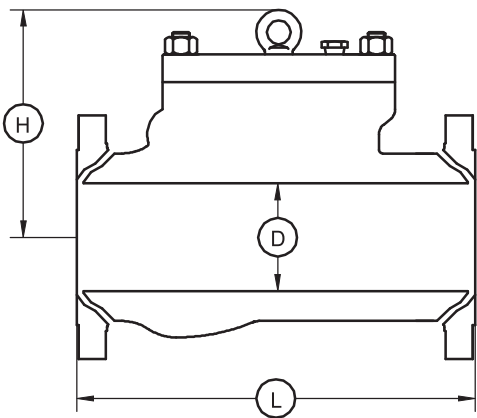
*Upon Request
*Flanges up to 24 in.(600mm)(except 22 in.(550mm)) in accordance with ASME B16.5; 22 in.(550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable.



Class 600

Size		A		H		BW		L RF		RTJ		Weight	
						in	mm	in	mm	in	mm		
2	50	2	51	5.98	152	11.50	292	11.50	292	11.61	295	61.71	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	110.20	50
4	100	4	102	8.50	216	17.01	432	17.01	432	17.13	435	198.36	90
6	150	6	152.4	12.83	326	22.01	559	22.01	559	22.13	562	401.13	182
8	200	8	203	13.58	345	26.00	660.4	26.00	660.4	26.14	664	793.44	360
10	250	10	254	16.10	409	30.98	787	30.98	787	31.14	791	1013.84	460
12	300	12	305	20.16	512	32.99	838	32.99	838	33.11	841	1465.66	665
14	350	13.25	337	24.92	633	35.00	889	35.00	889	35.12	892	1906.46	865
16	400	15.25	387	25.00	635	39.00	990.6	39.00	990.6	39.13	994	2644.80	1200
18	450	17.25	438	27.95	710	42.99	1092	42.99	1092	43.11	1095	3151.72	1430
20	500	19.25	489	30.00	762	47.01	1194	47.01	1194	47.24	1200	4914.92	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	6799.34	3085
26	650	25.00	635	40.63	1032	57.01	1448	57.01	1448	57.52	1461	9499.24	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	11945.68	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	*	*	21158.4	9600

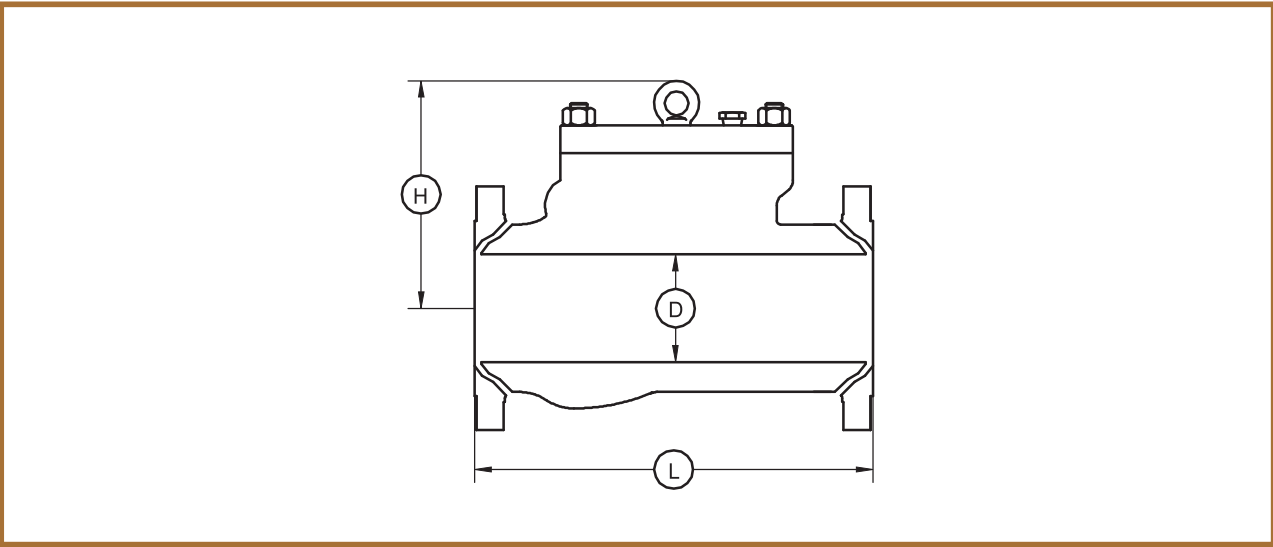
*Upon Request
*Flanges up to 24 in.(600mm)(except 22 in.(550mm)) in accordance with ASME B16.5; 22 in.(550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."



Class 900

Size		A		H		BW		L RF		RTJ		Weight	
						in	mm	in	mm	in	mm		
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	149.87	68
4	100	4	102	11.65	296	17.99	457	17.99	457	18.11	460	297.54	135
6	150	6	152.4	14.65	372	24.02	610	24.02	610	24.13	613	473.86	215
8	200	8	203	19.02	483	29.02	737	29.02	737	29.13	740	982.98	446
10	250	10	254	22.44	570	32.99	838	32.99	838	33.11	841	1851.36	840
12	300	12	305	24.72	628	37.99	965	37.99	965	38.11	968	3019.48	1370
14	350	12.75	324	26.73	679	40.51	1029	40.51	1029	40.87	1038	3173.76	1440
16	400	14.75	375	29.72	755	44.49	1130	44.49	1130	44.88	1140	3923.12	1780
18	450	16.75	425	32.24	819	47.99	1219	47.99	1219	48.50	1232	5157.36	2340
20	500	18.625	473	37.83	961	52.01	1321	52.01	1321	52.52	1334	6391.60	2900
22	550	20.625	524			*	*	*	*	*	*		
24	600	22.50	572	44.61	1133	60.98	1549	60.98	1549	61.73	1568	9278.84	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			*	*	*	*	*	*		

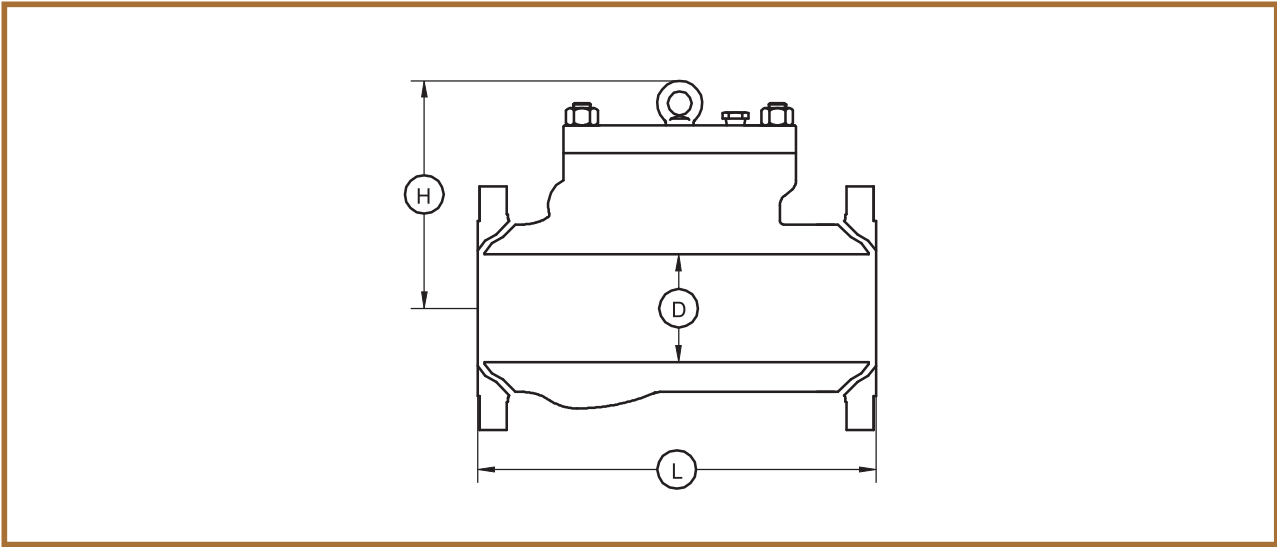
*Upon Request
*Flanges up to 24 in.(600mm)(except 22 in.(550mm)) in accordance with ASME B16.5; 22 in.(550 mm) in accordance with MSS-SP-44; above 24 in. (600 mm) in accordance with ASME 16.47 if applicable."



Class 1500

Size		A		H		BW		L RF		RTJ		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2	51	7.24	184	14.49	368	14.49	368	14.61	371	136.65	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	231.42	105
4	100	4	102	13.62	346	21.50	546	21.50	546	21.61	549	451.82	205
6	150	5.75	146	20.08	510	27.76	705	27.76	705	27.99	711	1005.02	456
8	200	7.63	194	23.62	600	32.76	832	32.76	832	33.11	841	1857.97	843
10	250	9.5	241	29.29	744	39.02	991	39.02	991	39.37	1000	3306.00	1500
12	300	11.38	289	31.22	793	44.49	1130	44.49	1130	45.12	1146	4452.08	2020
14	350	12.5	318	33.46	850	49.49	1257	49.49	1257	50.24	1276	5289.60	2400
16	400	14.25	362	37.87	962	54.49	1384	54.49	1384	55.39	1407	6645.06	3015
18	450	*	*			60.51	1537	60.51	1537	61.38	1559	10314.72	4680
20	500	*	*			65.51	1664	65.51	1664	66.38	1686	12342.40	5600
22	550	*	*			*	*	*	*	*	*		
24	600	*	*			76.50	1943	76.50	1943	77.64	1972	17962.60	8150
26	650	*	*			*	*	*	*	*	*		
28	700	*	*			*	*	*	*	*	*		

*Upon Request
 *Flanges up to 24 in.(600mm)(except 22 in.(550mm)) 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 2500

Size		A		H		BW		L RF		RTJ		Weight	
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	319.58	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	573.04	260
4	100	3.5	89	17.99	457	26.50	673	26.50	673	26.89	683	1057.92	480
6	150	5.25	133	22.40	569	35.98	914	35.98	914	36.50	927	2248.08	1020
8	200	7.13	181	23.94	608	40.24	1022	40.24	1022	40.87	1038	3746.80	1700
10	250	8.88	225	26.81	681	50.00	1270	50.00	1270	50.87	1292	6854.44	3110
12	300	10.50	267	30.24	768	55.98	1422	55.98	1422	56.89	1445	8154.80	3700
14	350	*	*			*	*	*	*	*	*		
16	400	*	*			*	*	*	*	*	*		
18	450	*	*			*	*	*	*	*	*		
20	500	*	*			*	*	*	*	*	*		
22	550	*	*			*	*	*	*	*	*		
24	600	*	*			*	*	*	*	*	*		
26	650	*	*			*	*	*	*	*	*		
28	700	*	*			*	*	*	*	*	*		

*Upon Request
 *Flanges up to 24 in.(600mm)(except 22 in.(550mm)) 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

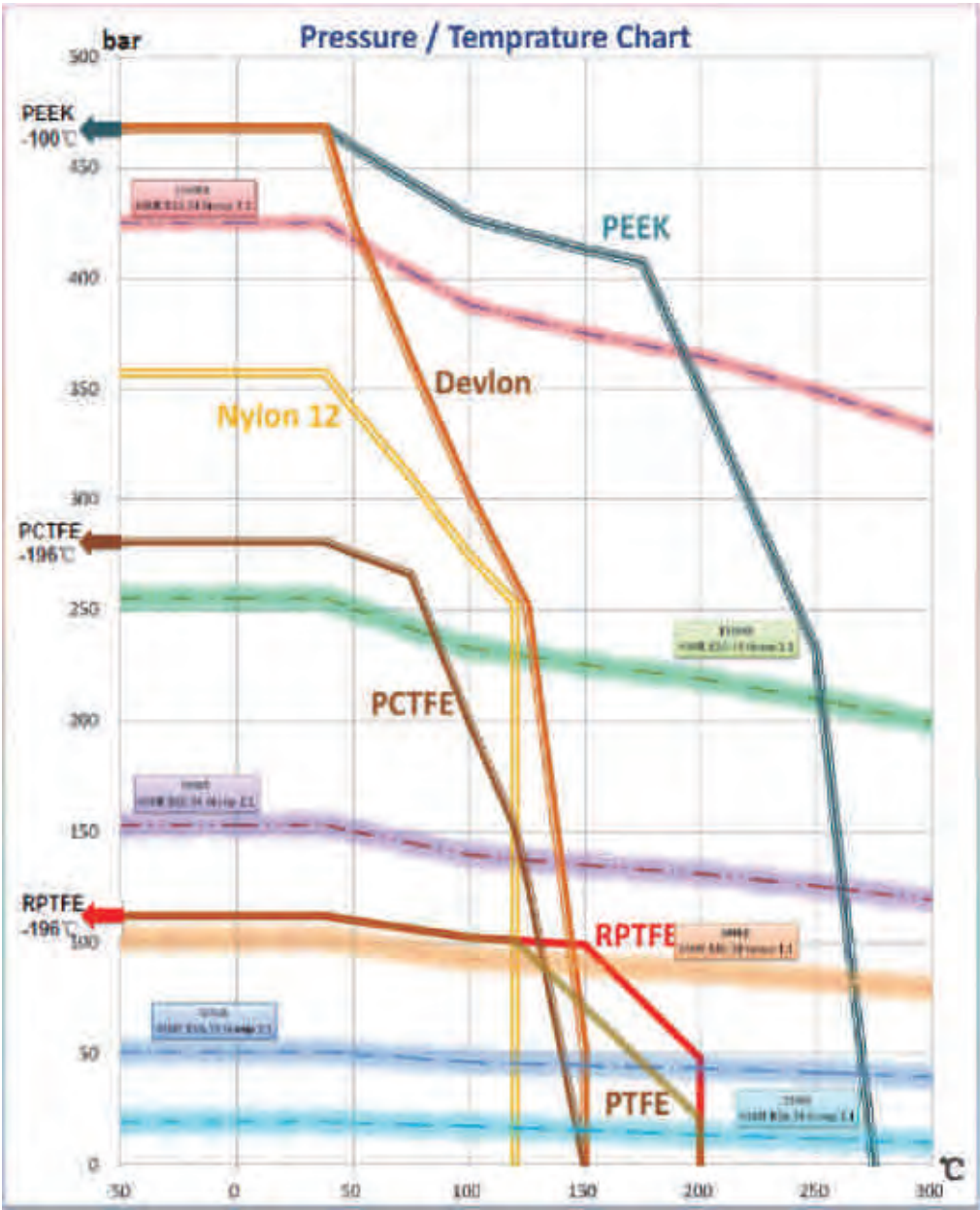
Properties		Nylon	Teflon (unfilled)	PEEK	Delrin	Polyphenylene
Temperature Range °F		-30~200	-100~425	-60~500	-50~180	-50~750
Pressure Rating		900~1500	150~600	150~1500	150~1500	150~300
Mechanical Property	Hardness	D75	D58	D85	R-120	D80
	Tensile Strength (psi)	8700 (min)	2100~2400	11000(min)	6600~7500 (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



Note: Other materials are available upon request.
If the operating condition is beyond the range above, please contact NEWAY's technical team.
NEWAY reserves the right to update without notice.

NEWAY Head Office

Total area: 2,295sqm
Office area: 6,885sqm

Founded in 2014



NEWAY Manufacturing Base

Main products: Ball Valve, Butterfly Valve,
Gate Valve, Globe Valve,
Check Valve, Control Valve

Building area: 230,000 sqm
Work shop: 140,061 sqm

Founded in 2006 and expanded in 2013



NEWAY Foundry (Suzhou)

Main products: Sand Casting
Building area: 112,500 sqm
Work shop: 98000 sqm

Founded in 2008 and expanded in 2015



NEWAY Foundry (Dafeng)

Main products: Lost wax investment casting
Building area: 46,000 sqm
Work shop: 12,000 sqm

Founded in 2004



NEWAY Foundry (Dafeng)

Main products: Lost wax investment casting
Building area: 40,000 sqm
Work shop: 20,000 sqm

Founded in 2008



NEWAY Forging (Liyang)

Main products: Hammer forging, annular forging
Office area: 3,000 sqm
Work shop: 30,000 sqm

Founded in 2017



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 of 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.