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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 research and development programs along with a commitment to excellence and engineering in manufacturing valve solutions for all industries.

Neway's main product lines include gate, globe, check, butterfly, and ball valves with quality innovative designs that are recognized by many global users and EPCs. These products have been installed throughout the world in gas, oil, refining, chemical, and marine, power generation, and pipeline transmission industrial applications.

Neway's Facilities

Neway's management structure is based on multi-plant manufacturing. We currently operate one R&D center, two valve assembly plants, and four specialized foundries in China. Our newest assembly plant was recently expanded in 2013, and it now covers nearly 35,000 square meters. Additionally, we have opened two overseas assembly plants in Mexico and Saudi Arabia.

Neway runs the most advanced manufacturing and management systems available. Our R&D software includes ANSYS, fe-safe, CF-Design, and SolidWorks. We are one of the few valve manufacturers performing Enterprise Resource Planning (ERP) using SAP ERP software in addition to utilizing automatic inventory management systems. Our in-house testing capabilities include fire-safe, cryogenic, high pressure gas and fugitive emission testing. These processes ensure that our products are safe, reliable, and environmentally-friendly.

Neway's goal is to occupy leading market positions through collaboration with value-adding business partners worldwide. In the last few years, Neway successively established new subsidiaries in Brazil, Dubai, Europe, Singapore, and the USA along with nearly 80 distributors around the world.

Quality Assurance

Neway is dedicated to the pursuit of having zero defect valves leave our facility. We perform active Six Sigma quality management to continually enhance process control management based on advanced statistical data analysis. Neway's industrial certificates include ISO 9001, CEIPED, TA-Luft, API 6A, API 6D, ABS, API Q1 and Fire Safe approvals.

Quality Commitment

ISO 9001



API 591

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MANAGEMENT SYSTEM CERTIFICATE

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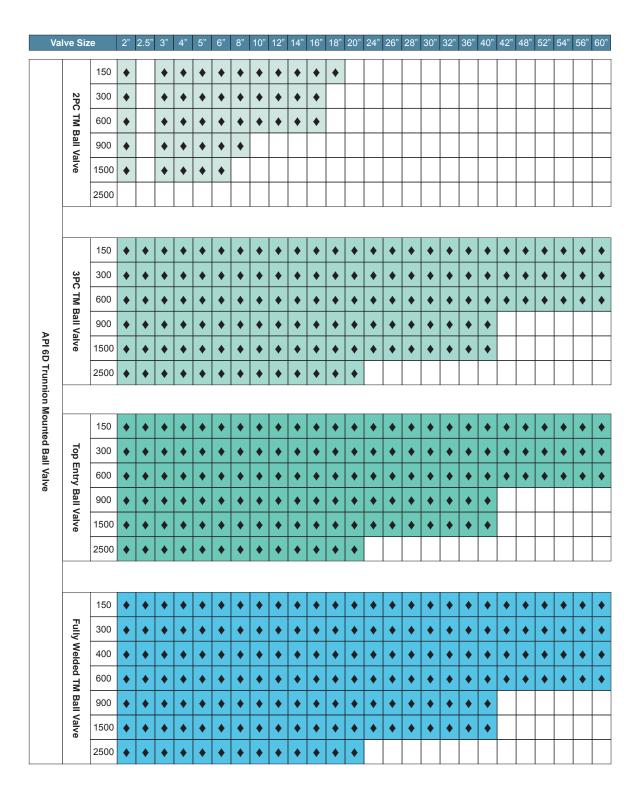
eway recognizes the important role a high quality valve plays in the safety and health of personnel as well as the protection of property. Neway concentrates its effort to provide customers with consistent products designed, manufactured, inspected, and tested in accordance with our customers' specifications at a competitive price in accordance with international standards.

CE/PED

Industry standards do not always consider all possible parameters when selecting valve products. Various decision making parameters such as special service fluids or external environments in which the valves operate are often not covered in standards and can negatively affect the valve's performance. Therefore, we recommend that our customers communicate with our engineering department about any specific question for their valve application. Using our experience in providing valves for various industries and media types, our valve optimization program continuously strives to provide valves that withstand deterioration in service and ensure proper valve selection that will remain operational during its intended commission lifetime.

Fire Safe Test

Product Range



Technical Innovation

Neway's technical research center utilizes the most advanced computer technology to improve existing product lines and develop new ones. A comprehensive internal computer network links the highly trained engineering team to manufacturing and administration so all personnel can be updated instantly.

Neway's mission is to engineer safe and cost-effective valves. The latest AutoCAD and I-DEAS software is used by the product design and research team. The advanced finite element analysis feature enables virtual verification of new product designs prior to production. This dramatically reduces new product development time and ensures quality while controlling costs. All designs are rigorously tested in Neway's state-of-the-art flow loop to confirm and validate them. The end result is a final product that meets and exceeds international quality and safety standards sold at a competitive price.

Neway's technical personnel stands ready to support our customers, whether distributor, agent, or end user, with on-line and/or on-site technical support and training.







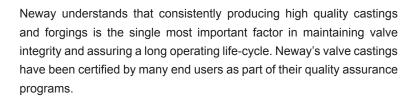




Fire safe certification is standard for all Neway ball valves. The soft seated ball valves are witnessed and certified by Lloyd's Register. Neway's computer controlled fire testing lab is capable of testing and certifying floating and trunnion mounted ball valves per API 6FA and API 607 standards.

NEWAY Owned Foundries







Whereas most other valve manufacturers outsource their valve casting, Neway has invested millions developing two state-of-the-art foundries to maintain rigorous quality standards. Our Suzhou foundry specializes in large size sand castings using the organic ester water glass casting process, and our Dafeng foundry produces small sized investment castings using the lost wax casting method. Each foundry is equipped with a wide range of quality inspection equipment and instruments, including a spectrum analyzer, non-destructive testing equipment, and mechanical property testing equipment. Neway maintains rigorous quality control throughout the entire valve foundry process to ensure that our stringent quality standards are mainted while providing our products at a competitive price. This extraordinary level of commitment to quality has made Neway the supplier of choice for many world class customers.







Supply Range & Capacity

Plant Name	Dafeng Foundry	Suzhou Foundry				
Process Technology	Loss wax investment casting	Organic ester water glass sand casting				
Size Range (in)	1/2" ~ 10"	2" ~ 64"				
Pressure Rating	ASME Class 150~600	ASME Class 150~2500				
Weight (Kg)	1 ~ 150	100 ~ 11000				
Material	WCB, WCC, LCB, LCC, WC6, WC9, CCF3M, CN7M, Monel, Inconel, Duplex					
Monthly Capacity (Ton)	1500	1800				
Quality Certifications	ISO 9001, CE/PED, AD W0	ISO 9001,CE/PED,Norsok				

Advanced Manufacturing

The latest computer technologies are also widely applied in our manufacturing facilities at Neway, including a large number of computer numeric controlled (CNC) machining centers, horizontal and vertical lathes, and drilling machines. These machines directly tie into Neway's ERP management system, resulting in significantly improved machining quality and timely order processing. Neway internally machines all of the parts for its valves through the 60" ball valve size, ensuring consistent quality and just-in-time (JIT) delivery.













Quality Control







Neway houses its own extensive and advanced inspecting and testing department equipped with the latest equipment and instruments. Highly trained and certified technicians perform radiographic, ultrasonic, dye-penetrant, magnetic particle, PMI, impact, hardness, and tensile tests.

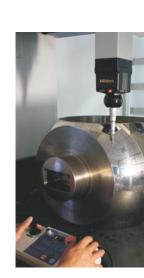
Neway also mantains state-of-the-art cryogenic, vacuum, fugitive emission, fire, and hydro testing facilities to ensure the highest product quality and performance.

Six-Sigma, zero defect policies, and continous process improvements have allowed Neway to obtain numerous certifications such as ISO 9001 (issued by DNV), API 6A (no.6A-0716), API 6D (no.6D-0285), CE/PED (category IV, mode B+D, certificate under B.V.), ABS,TA-Luft, API591, and GOST.

Due to our extensive product portfolio, focus on quality, competitive delivery lead times, and economical pricing, Neway has earned many end user customer approvals, and is viewed as a world class manufacturer.







Quality Control

Neway Key Quality Control Processes:

- 1 Chemical composition testing (PMI)
- Mechanical property testing (Tensile\Impact\Hardness)
- Micro-structure testing
- 4 NDT (RT/UT/PT/MT)
- 5 Dimension inspection
- 6 Ultrasonic Cleaning
- Visual inspection
- 8 Pressure testing
- 9 Painting thickness testing

Notes: Other special tests and inspections are available upon request (low temperature, low emission, vacuum test, high pressure air test, etc.)













Product Overview





Product Overview





4

- 1 Fully Welded Ball Valve, 6" Class 600
- 2 Metal-to-Metal Ball Valve, F51 Material, 14" Class 900
- 3 Top Entry Ball Valve
- 4 Pneumatic Actuated Ball Valve
- Motor Actuated Ball Valves
- 6 Hydraulic Actuated Ball Valves
- Underground Ball Valves with gas over oil actuator





6

How to Order

Example:



Neway figure numbers are designed to cover essential features. When ordering, please show the figure numbers and a detailed description to avoid misunderstanding any of your requirements.

The following descriptions provide a basic guideline for valve specifications:

① Valv	e Sizes											
ıll Bore:												
in	2	21/2	3	31/2	4	5	6	8	10	12	14	
mm	50	65	80	90	100	125	150	200	250	300	350	
in	16	18	20	22	24	26	28	30	32	34	36	
mm	400	450	500	550	600	650	700	750	800	850	900	
in	38	40	42	44	48	52	54	56	60			
mm	950	1000	1050	1100	1200	1300	1350	1400	1500			
educed B	ore:											
in	2×11/2	21/2×2	3×2	4×3	6×4	8×6	10×8	12×10	14×12	16×14	18×16	
mm	50×40	65×50	80×50	100×80	150×100	200×150	250×200	300×250	350×300	400×350	450×400	
in	20×18	22×20	24×20	26×24	28×24	30×24	32×30	34×30	36×30	38×32	40×36	
mm	500×450	550×500	600×500	650×600	700×600	750×600	800×750	850×750	900×750	950×800	1000×900	
② Valv	e Types											
Symbol			Valve Typ	е		Symbol Valve Type						
BT		2-pcs Ca	sting Trunnion	Mounted type		BW		Full Welded T	runnion Mo	unted type		
BS		3-pcs Fo	rging Trunnion	Mounted type		BSP	Dou	uble Piston Effec	tive Trunnio	on Mounted ty	уре	
BE		Top Er	try Trunnion Mo	ounted type		BWP	Double Pis	ston Effective Fu	lly Welded	Trunnion Mo	unted type	
③ ASM	IE Class											
Code		1	3	4		6	8	9	1	5	25	
Class (LE	3) 15	50	300	400	6	600	800 900		15	500	2500	
4) End	Connectio											

4 End Connections

Symbol	End	Symbol	End
R	Raied face flanged end	Symbol	Socket weld end
J	RTJ flanged end	N	Screwed end
В	Butt-weld end	SN	Socket weld/screwed end
F	Flat face flanged end	NC	55° Taper screwed end

⑤ Operator

Symbol	Description	Symbol	Description
	Lever	BS	Bare shaft
G	Gear operator	Н	Hydraulic actuator
М	Electric actuator	L	Gas over oil actuator
Р	Pneumatic actuator	С	Gear operator (Operation force ≤ 350N)

Body Materials

Classification Steel	Cast Material	Forged Material	Recommende Lin	d Temperature nits	- Application	
Classification Steel	Gast Material	Forged Material	°C	°F	Аррисацоп	
Carbon Steel	A216 Grade WCB	A105N	-29 to 245	-20 to 800	Steam, water oil, oil vapour, gas, and general service	
Carbon Steel	A352 Grade LCB	A350 Grade LF2	-46 to 350	-50 to 650	Louisemannetura	
Carbon Steel	A352 Grade LCC	A350 Grade LF2	-46 to 350	-50 to 650	Low temperature	
Duplex Stainless Steel	A995 Grade 4A	A182 Grade F51	-51 to 315	-60 to 599	Corrosion resistance	
Duplex Stainless Steel	A995 Grade 5A	A182 Grade F53	-51 to 315	-60 to 599	Concion resistance	
Stainless Steel	A354 Grade CF8M	A182 Grade F316	-196 to 815	-320 to 1500	High and low temperature	
Stainless Steel	A351 Grade CF8	A182 Grade F304	-196 to 815	-320 to 1500	corrosion resistance	
Low Carbon Stainless Steel	A351 Grade CF3M	A182 Grade F316L	-196 to 815	-320 to 1500	Cryogenic service is also	
Low Carbon Stainless Steel	A351 Grade CF3M	A182 Grade F304L	-196 to 815	-320 to 1500	available upon request	
Nickel Allow Steel	A351 Grade CN7M	Alloy 20	-196 to 425	-320 to 800	Corrosion resistance	

Trim Codes

Se	at Insert		O-ring		Stem		Ball		Seat
Code	Material	Code	Material	Code	Material	Code	Material	Code	Material
1	PTFE	1	NBR	1	F6a	1	F6a	1	F6a
2	NYLON1010	2	VITON A	2	F304	2	F304	2	F304
3	PEEK	3	VITON AED	3	A105N/ENP	3	A105N/ENP	3	A105N/ENP
4	Polyphenylene	4	4 VITON B 4 17-4PH 4 17-4PH		17-4PH	4	17-4PH		
5	DEVLON V	5	HSN	5	AISI 4140	5	AISI 4140	5	AISI 4140
6	KEL-F	6	HNBR	6	F316	6	F316	6	F316
7	NYLON 12	7	PTFE COATED VITON	7	F304L	7	F304L	7	F304L
8	PCTFE	8	VITON GLT	8	F316L	8	F316L	8	F316L
9	MOLON	9	BUNA-N	9	LF2/ENP	9	LF2/ENP	9	LF2/ENP
Α	PVDF	Α	ELAST-0-LION 101	Α	F51	Α	F51	Α	F51
		В	EPDM						

Note: Other materials are available upon request.

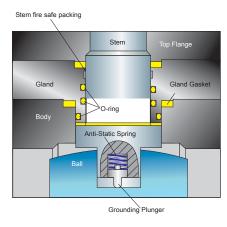
Design Features

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 blow-out proof.

Anti-Static Device

The anti-static 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 operation.

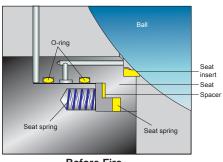


Stem fire safe packing O-rina

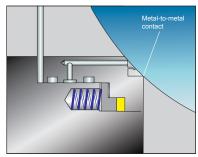
Super Fire Safe Design

External leakage prevention

Leakage from the valve's stem area is prevented by two O-rings seals and a gland gasket. Leakage through the valve's body joint is blocked by an O-ring seal and a body gasket. If a fire has deteriorated the O-ring, gland gasket, and body gasket, the fire safe stem packing prevents the external leakage of process media.







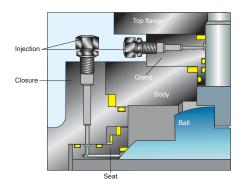
After Fire

Internal leakage prevention

When soft goods such as O-rings, soft seats, and spacers are damaged 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. The fire safe graphite packing is compressed by the seat spring to prevent the flow of process media between the valve body and the seat.

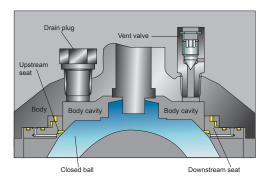
Emergency Sealant Injection System

For 6 inch and larger Neway Trunnion mounted ball valves, sealant injecting fittings will be installed on both the stem and the seats. If the sealing materials (soft seat or the stem O-ring) are damaged or decomposed by fire or other accidental causes, leakage from the seat and stem can be prevented by the injection of sealant into these fittings. The fitting contains two check valves, one of which is internally installed, to provide backup sealing.



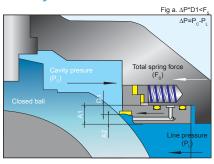
Double block and bleed

Each seat shuts off the process media independently on the upstream and downstream sides of the ball, allowing double block operation. When pressure is simultaneously applied to both sides of the ball in the closed position, the valve bore and the body cavity will be isolated from each other, and the pressure within the body cavity can be released through the drain plug.

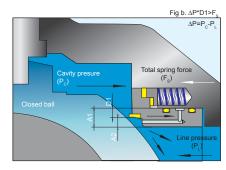


Design Features

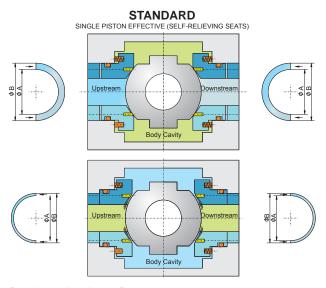
Cavity Pressure Relief



When the cavity pressure (P_c) is lower than the seat spring and line pressure (P_L), i.e. $\Delta P^*D1 < F_s$, the contact between the ball and seat ring provides a tight seal.



When the cavity pressure is higher than the seat spring and line pressure, i.e. $\Delta P^*D1>F_s$, the self relieving action allows the valve seat to move slightly away from the ball surface. Any excess pressure 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).



Self Relieving Seats (single piston effect)

The single piston is the standard design for trunnion mounted ball valves. The upstream and downstream fluid pressure pushes the seat rings toward the ball. If the thrust created by the body cavity pressure is greater than the spring preload and the fluid pressure thrust, then the seats are pushed against the ball. Any overpressure in the body cavity is released automatically when the valve is in the fully opened or fully closed position.

Optional DOUBLE PISTON EFFECTIVE Upstream Downstream Downstream Downstream Downstream Downstream

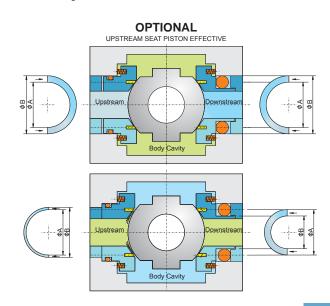
Double Piston Effect Seats

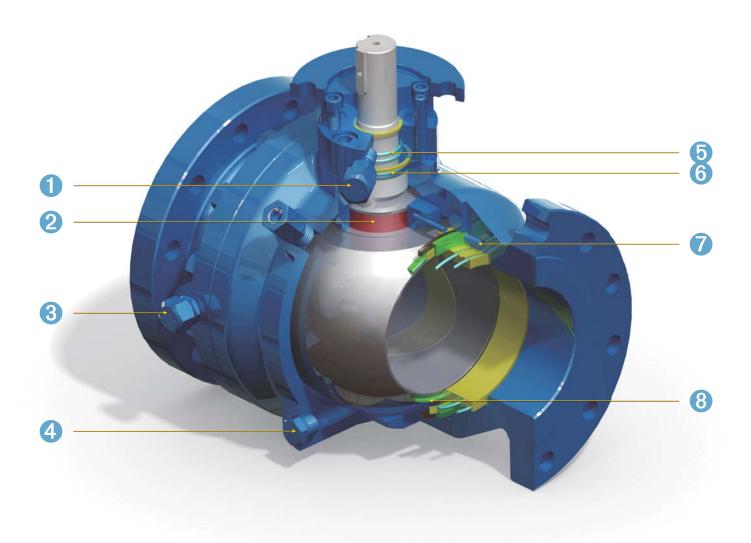
Double piston effect seats are pressure energized in both directions. Upstream and downstream pressure creates the thrust so the seat rings are pushed toward the ball at all times. If the upstream seat fails, the downstream seat can still assure valve tightness. Interesting in specific applications (high integrity required) or for some pipe testing. Since double piston effect valves do not have the self-relieving function, they can not release valve body cavity pressure. A pressure relief design feature can be added.

Self Relieving Upstream Seat and Double Piston Effective Downstream Seat

The fluid pushes the double piston effect seat toward the valve on the downstream side so the seat is pressure energized at all times. If the upstream seat fails, the downstream seat can still assure valve tightness.

On the other side, the upstream seat is designed with a single piston effect being pressure energized in one direction only. If the thrust created by the body cavity pressure is greater than the spring preload and the fluid pressure thrust, the seats are pushed against the ball. Any overpressure between downstream seats and the body cavity is released automatically into the upstream side.





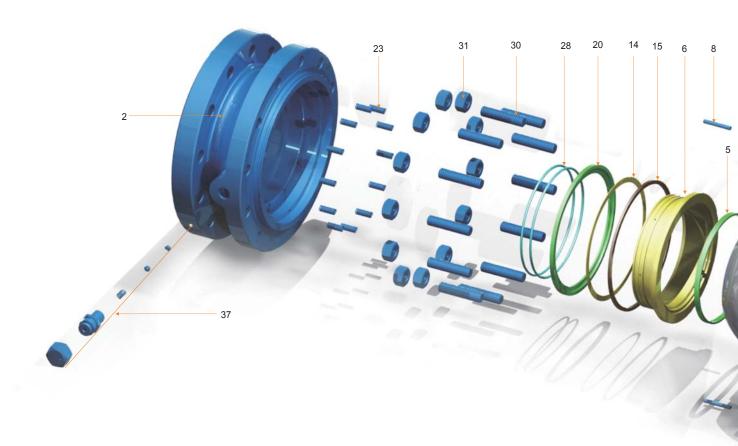
- Emergency Sealant Injection Fitting: Allows external intervention to prevent stem leakage.
- Blow-out Proof Stem (internally inserted): Safety feature that assures stem sealing at all pressures.
- Emergency Sealant Injection Fitting: Allows external intervention to prevent seat leakage.
- Drain plug: Relieves the body cavity.
- Two O-rings Seals: Prevent leakage from the stem area.
- O-ring & Gasket Combination: Prevents leakage from the body joint area.
- Floating Spring Loaded Seats: Assure sealing, even at low pressures.
- Back-up Metal-to-Metal Sealing: When primary soft-seat materials are deteriorated by fire, the seat floats to shut off the line media.

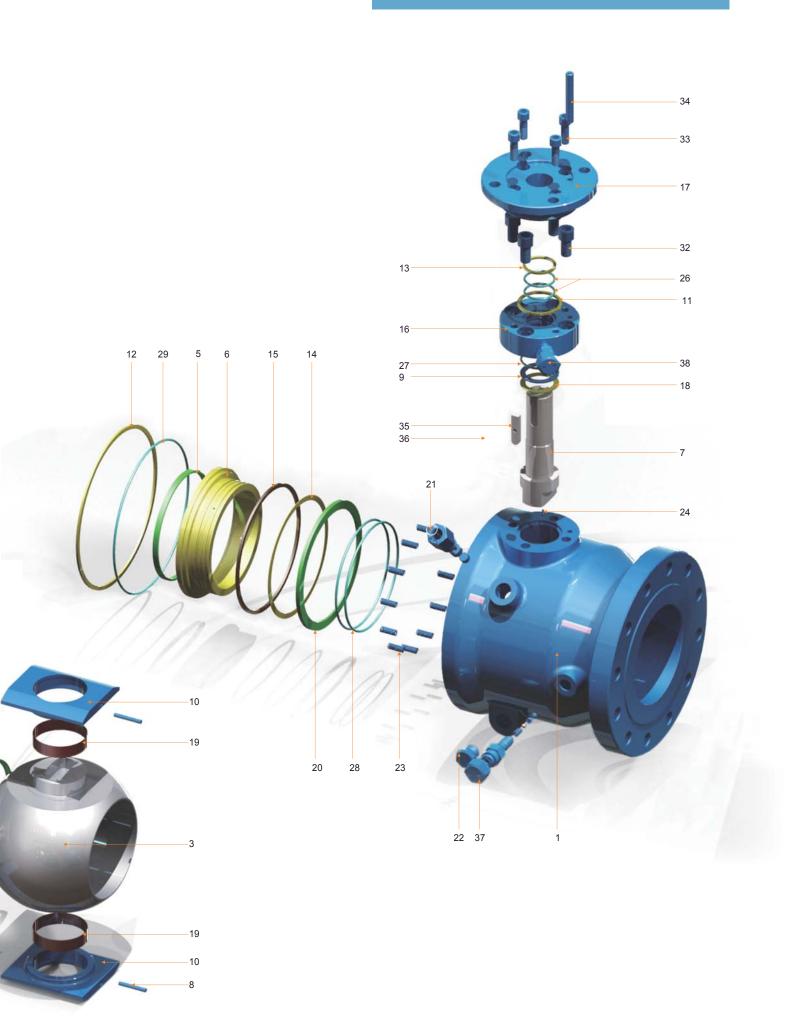
No.	Part	Standard	Stainless Steel	Sour Service	Low Temperature Service	
1	Body	ASTM A216-WCB	ASTM A351-CF8M	ASTM A216-WCB	ASTM A352-LCB	
2	Closure	ASTM A216-WCB	ASTM A351-CF8M	ASTM A216-WCB	ASTM A352-LCB	
3	Ball	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP	
4	Seat Assembly (5)+(6)	Assembled By No. 5 & 6				
5*	Seat Insert	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	
6	Seat Ring	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 Alignment Pin	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	
9	Thrust Washer	PTFE	PTFE	PTFE	PTFE	
10	Trunnion Support	ASTM A216-WCB/ENP	ASTM A351-CF8M	ASTM A216-WCB/ENP	ASTM A352-LCB/ENP	
11	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite	
12	Body Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite	
13	Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite	
14	Spacer	PTFE	PTFE	PTFE	PTFE	
15	Firesafe Gasket	316SS+Graphite	316SS+Graphite	316SS+Graphite	316SS+Graphite	
16	Gland Cap	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2	
17	Top Flange	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2	
18	Thrust Washer	25%Glass Fiber+PTFE	25%Glass Fiber+PTFE	25%Glass Fiber+PTFE	25%Glass Fiber+PTFE	
19	Bearing	316 + PTFE + MoS2				
20	Seat Follower	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP	
21	Vent Valve	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	
22	Drain	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	
23	Seat Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750	
24	Anti-static Device	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	
25*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	
26*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	
27*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	
28*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	
29*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	
30	Body Stud	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M	
31	Body Nut	ASTM A194-2H	ASTM A194-8	ASTM A194-2HM	ASTM A194-7M	
32	Screw	Carbon Steel	Stainless Steel	Carbon Steel	ASTM A320-L7M	
33	Screw	Carbon Steel	Stainless Steel	Carbon Steel	ASTM A320-L7M	
34	Gland Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	
35	Key	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	
36	Spring Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	
37	Seat Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	

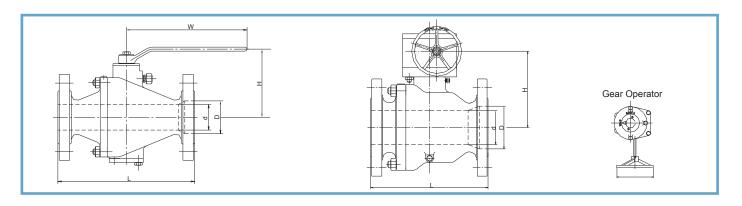
^{*}Please contact a Neway sales or technical team to confirm supplied materials.

Index No.	Part					
1	Body					
2	Closure					
3	Ball					
4	Seat Assembly (5)+(6)					
5	Seat Insert					
6	Seat Ring					
7	Stem					
8	Trunnion Alignment Pin					
9	Thrust Washer					
10	Trunnion Support					
11	Gasket					
12	Body Gasket					
13	Gasket					
14	Spacer					
15	Firesafe Gasket					
16	Gland Cap					
17	Top Flange					
18	Thrust Washer					
19	Bearing					

Index No.	Part					
20	Seat Follower					
21	Vent Valve					
22	Drain					
23	Seat Spring					
24	Anti-static Device					
25	O-Ring					
26	O-Ring					
27	O-Ring					
28	O-Ring					
29	O-Ring					
30	Body Stud					
31	Body Nut					
32	Screw					
33	Screw					
34	Gland Pin					
35	Key					
36	Spring Pin					
37	Seat Injection					
38	Stem Injection					







150 LB Dimensions

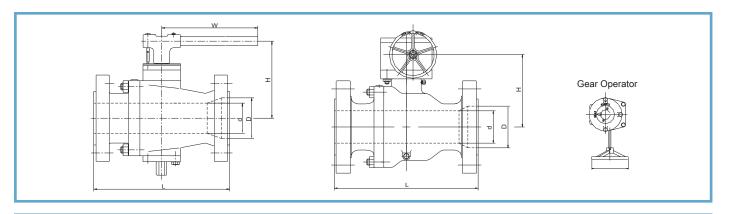
					Full	Port					
Si	ze	C	d	L	-	H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	7.01	178	6.50	165	9.06	230	37.5	17
3	80	2.99	76	7.99	203	7.60	193	15.75	400	72.8	33
4	100	4.02	102	9.02	229	9.09	231	18.11	460	110.2	50
6	150	5.98	152	15.51	394	12.95	329	39.37	1000	205.0	93
8	200	7.99	203	17.99	457	15.47	393	19.69	*500	366.0	166
10	250	10.00	254	20.98	533	15.79	401	19.69	*500	601.9	273
12	300	12.01	305	24.02	610	17.36	441	19.69	*500	1047.2	475
14	350	13.27	337	27.01	686	18.94	481	19.69	*500	1256.6	570
16	400	15.24	387	30.00	762	23.54	598	19.69	*500	1715.2	778
18	450	17.24	438	34.02	864	25.31	643	19.69	*500	2061.3	935
20	500	19.25	489	35.98	914	27.87	708	19.69	*500	2623.5	1190
22	550	21.26	540	40.00	1016	31.42	798	19.69	*500	2967.4	1346
24	600	23.27	591	42.01	1067	33.98	863	19.69	*500	3481.0	1579

	Reduced Port													
Si	ze	C	l	[)	L		H		W		Weight		
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	
3×2	80×50	2.01	51	2.99	76	7.99	203	6.50	165	9.06	230	66.1	30	
4×3	100×80	2.99	76	4.02	102	9.02	229	7.60	193	15.75	400	103.6	47	
6×4	150×100	4.02	102	5.98	152	15.51	394	9.09	231	15.75	400	198.4	90	
8×6	200×150	5.98	152	7.99	203	17.99	457	12.95	329	18.11	460	354.9	161	
10×8	250×200	7.99	203	10.00	254	20.98	533	15.47	393	39.37	1000	590.8	268	
12×10	300×250	10.00	254	12.01	305	24.02	610	15.47	393	19.69	*500	1029.5	467	
14×12	350×300	12.01	305	13.27	337	27.01	686	17.36	441	19.69	*500	1234.6	560	
16×14	400×350	13.27	337	15.24	387	30.00	762	18.94	481	19.69	*500	1688.7	766	
18×16	450×400	15.24	387	17.24	438	34.02	864	23.54	598	19.69	*500	1988.5	902	
20×18	500×450	17.24	438	19.25	489	35.98	914	25.31	643	19.69	*500	2491.2	1130	
22×20	550×500	19.25	489	21.26	540	40.00	1016	25.31	643	19.69	*500	2866.0	1300	
24×20	600×500	19.25	489	23.27	591	42.01	1067	27.87	708	19.69	*500	3351.0	1520	

300 LB Dimensions

					Full	Port					
Si	ze	d		L		I	Н		W		ght
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	8.50	216	6.50	165	9.06	230	39.7	18
3	80	2.99	76	11.14	283	7.60	193	15.75	400	88.2	40
4	100	4.02	102	12.01	305	9.09	231	29.53	750	138.9	63
6	150	5.98	152	15.87	403	12.95	329	39.37	1000	330.7	150
8	200	7.99	203	19.76	502	15.47	393	59.06	1500	529.1	240
10	250	10.00	254	22.36	568	15.79	401	19.69	*500	672.4	305
12	300	12.01	305	25.51	648	17.36	441	19.69	*500	1117.7	507
14	350	13.27	337	30.00	762	18.94	481	19.69	*500	1327.2	602
16	400	15.24	387	32.99	838	23.54	598	19.69	*500	2204.6	1000
18	450	17.24	438	35.98	914	25.31	643	19.69	*500	2557.3	1160
20	500	19.25	489	39.02	991	27.87	708	19.69	*500	2910.1	1320
22	550	21.26	540	42.99	1092	31.42	798	19.69	*500	3395.1	1540
24	600	23.27	591	45.00	1143	33.98	863	19.69	*500	4131.4	1874

*Gear Operator



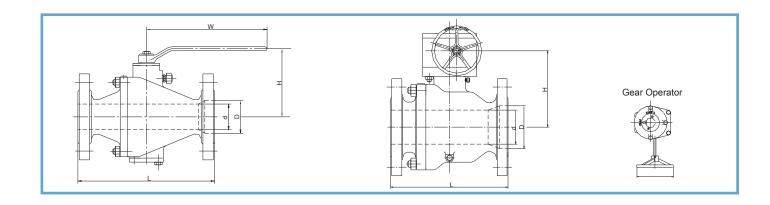
300 LB Dimensions

						Reduc	ed Port						
Si	ze	(d	D		l	L		H		V	Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	11.14	283	6.50	165	9.06	230	83.8	38
4×3	100×80	2.99	76	4.02	102	12.01	305	7.60	193	15.75	400	132.3	60
6×4	150×100	4.02	102	5.98	152	15.87	403	9.09	231	29.53	750	324.1	147
8×6	200×150	5.98	152	7.99	203	19.76	502	12.95	329	39.37	1000	515.9	234
10×8	250×200	7.99	203	10.00	254	22.36	568	15.47	393	59.06	1500	650.4	295
12×10	300×250	10.00	254	12.01	305	25.51	648	15.47	393	19.69	*500	1075.8	488
14×12	350×300	12.01	305	13.27	337	30.00	762	17.36	441	19.69	*500	1256.6	570
16×14	400×350	13.27	337	15.24	387	32.99	838	18.94	481	19.69	*500	2006.2	910
18×16	450×400	15.24	387	17.24	438	35.98	914	23.54	598	19.69	*500	2248.7	1020
20×18	500×450	17.24	438	19.25	489	39.02	991	25.31	643	19.69	*500	2821.9	1280
22×20	550×500	19.25	489	21.26	540	42.99	1092	25.31	643	19.69	*500	2998.2	1360
24×20	600×500	19.25	489	23.27	591	45.00	1143	27.87	708	19.69	*500	3681.7	1670

	Full Port										
Si	ze	C	i	L		ŀ	ł	W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	11.50	292	6.93	176	15.75	400	59.5	27
3	80	2.99	76	14.02	356	9.72	247	29.53	750	110.2	50
4	100	4.02	102	17.01	432	10.87	276	39.37	1000	176.4	80
6	150	5.98	152	22.01	559	14.29	363	59.06	1500	775.6	351
8	200	7.99	203	25.98	660	14.29	363	19.69	*500	771.6	350
10	250	10.00	254	30.98	787	16.77	426	19.69	*500	1322.8	600
12	300	12.01	305	32.99	838	21.57	548	19.69	*500	1807.8	820
14	350	13.27	337	35.00	889	23.54	598	19.69	*500	2491.2	1130
16	400	15.24	387	39.02	991	25.51	648	19.69	*500	3417.1	1550
18	450	17.24	438	42.99	1092	29.13	740	19.69	*500	4629.6	2100
20	500	19.25	489	47.01	1194	31.89	810	19.69	*500	6172.8	2800
24	600	23.27	591	55.00	1397	36.22	920	19.69	*500	7993.8	3626

	Reduced Port												
Si	ze	C	1	[L	ŀ	1	V	V	We	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	14.02	356	6.93	176	15.75	400	90.4	41
4×3	100×80	2.99	76	4.02	102	17.01	432	9.72	247	29.53	750	154.3	70
6×4	150×100	4.02	102	5.98	152	22.01	559	10.87	276	39.37	1000	269.0	122
8×6	200×150	5.98	152	7.99	203	25.98	660	14.29	363	59.06	1500	562.2	255
10×8	250×200	7.99	203	10.00	254	30.98	787	14.29	363	19.69	*500	970.0	440
12×10	300×250	10.00	254	12.01	305	32.99	838	16.77	426	19.69	*500	1366.8	620
14×12	350×300	12.01	305	13.27	337	35.00	889	21.57	548	19.69	*500	2336.8	1060
16×14	400×350	13.27	337	15.24	387	39.02	991	23.54	598	19.69	*500	3174.6	1440
18×16	450×400	15.24	387	17.24	438	42.99	1092	25.51	648	19.69	*500	4100.5	1860
20×18	500×450	17.24	438	19.25	489	47.01	1194	29.13	740	19.69	*500	5291.0	2400
24×20	600×500	19.25	489	23.27	591	55.00	1397	31.89	810	19.69	*500	7142.9	3240

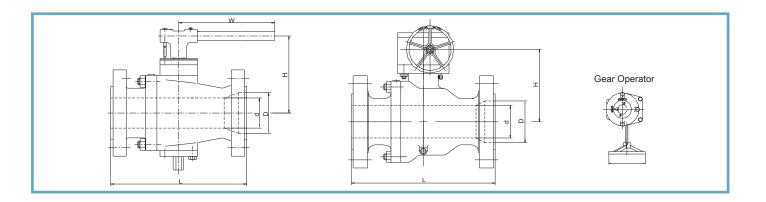
^{*}Gear Operator



	Full Port										
S	ize	(t	L		Н		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	14.49	368	7.56	192	18.11	460	114.6	52
3	80	2.99	76	15.00	381	9.80	249	39.37	1000	213.8	97
4	100	4.02	102	17.99	457	12.40	315	59.06	1500	304.2	138
6	150	5.98	152	24.02	610	12.72	323	19.69	*500	634.9	288
8	200	7.99	203	29.02	737	15.00	381	19.69	*500	987.7	448
10	250	10.00	254	32.99	838	20.39	518	19.69	*500	1649.0	748
12	300	12.01	305	37.99	965	22.36	568	19.69	*500	2244.3	1018
14	350	12.76	324	40.51	1029	26.18	665	19.69	*500	3082.0	1398
16	400	14.76	375	44.49	1130	28.74	730	19.69	*500	4030.0	1828
18	450	16.73	425	47.99	1219	31.30	795	19.69	*500	5132.3	2328
20	500	18.62	473	52.01	1321	32.48	825	24.02	*610	6455.0	2928
24	600	22.52	572	60.98	1549	38.31	973	24.02	*610	9210.8	4178

	Reduced Port												
Si	ze	С		[L	ŀ	ł	V	V	Wei	ight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	15.00	381	7.56	192	18.11	460	183.0	83
4×3	100×80	2.99	76	4.02	102	17.99	457	9.80	249	39.37	1000	227.1	103
6×4	150×100	4.02	102	5.98	152	24.02	610	12.40	315	59.06	1500	443.1	201
8×6	200×150	5.98	152	7.99	203	29.02	737	12.72	323	19.69	*500	767.2	348
10×8	250×200	7.99	203	10.00	254	32.99	838	15.00	381	19.69	*500	1318.3	598
12×10	300×250	10.00	254	12.01	305	37.99	965	20.39	518	19.69	*500	1737.2	788
14×12	350×300	12.01	305	12.76	324	40.51	1029	22.36	568	19.69	*500	2425.0	1100
16×14	400×350	12.76	324	14.76	375	44.49	1130	26.18	665	19.69	*500	3130.5	1420
18×16	450×400	14.76	375	16.73	425	47.99	1219	28.74	730	19.69	*500	4250.4	1928
20×18	500×450	16.73	425	18.62	473	52.01	1321	31.30	795	19.69	*500	5352.7	2428
24×20	600×500	18.62	473	22.52	572	60.98	1549	32.48	825	19.69	*610	7888.0	3578

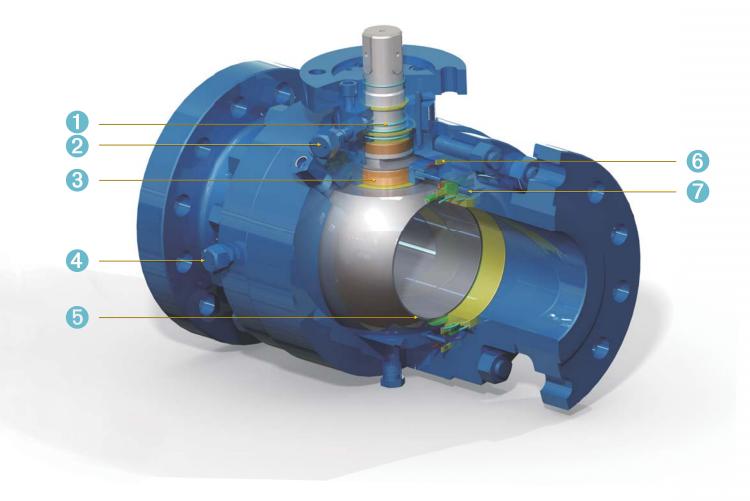
^{*}Gear Operator



	Full Port										
Si	ze	C	i	L		Н		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	14.49	368	9.92	252	29.53	750	189.6	86
3	80	2.99	76	18.50	470	11.81	300	59.06	1500	299.8	136
4	100	4.02	102	21.50	546	10.71	272	19.69	*500	487.2	221
6	150	5.75	146	27.76	705	13.43	341	19.69	*500	855.4	388
8	200	7.64	194	32.76	832	19.41	493	19.69	*500	1278.7	580
10	250	9.49	241	39.02	991	22.24	565	19.69	*500	2089.9	948
12	300	11.38	289	44.49	1130	27.56	700	19.69	*500	2949.7	1338
14	350	12.52	318	49.49	1257	29.41	747	19.69	*500	3853.6	1748
16	400	14.25	362	54.49	1384	31.30	795	24.02	*610	4911.8	2228
18	450	16.02	407	60.51	1537	34.53	877	24.02	*610	6283.1	2850
20	500	17.99	457	65.51	1664	38.78	985	24.02	*610	10714.3	4860

	Reduced Port												
Si	ze	C	1	[L	H	1	V	V	We	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	18.50	470	9.92	252	29.53	750	216.0	98
4×3	100×80	2.99	76	4.02	102	21.50	546	11.81	300	59.06	1500	304.2	138
6×4	150×100	4.02	102	5.75	146	27.76	705	10.71	272	19.25	*500	634.9	288
8×6	200×150	5.75	146	7.64	194	32.76	832	13.43	341	19.25	*500	987.7	448
10×8	250×200	7.64	194	9.49	241	39.02	991	19.41	493	19.25	*500	1649.0	748
12×10	300×250	9.49	241	11.38	289	44.49	1130	22.24	565	19.25	*500	2248.7	1020
14×12	350×300	11.38	289	12.52	318	49.49	1257	27.56	700	19.25	*500	3086.4	1400
16×14	400×350	12.52	318	14.25	362	54.49	1384	29.41	747	19.25	*500	4012.3	1820
18×16	450×400	14.25	362	16.02	407	60.51	1537	31.30	795	24.02	*610	5132.3	2328
20×18	500×450	16.02	407	17.99	457	65.51	1664	34.53	877	24.02	*610	9082.9	4120

^{*}Gear Operator



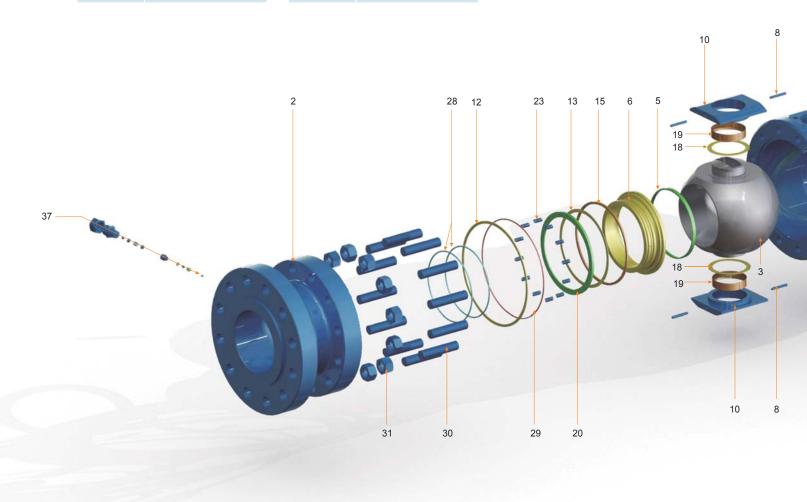
- Two O-ring Seals: Prevent leakage from the stem area.
- Emergency Sealant Injection Fitting: Allows external intervention to prevent stem leakage.
- Blow-out Proof Stem (internally inserted): Safety feature that assures stem sealing at all pressures. 3
- Emergency Sealant Injection Fitting: Allows external intervention to prevent seat leakage.
- Back-up Metal-to-Metal Sealing: When primary soft-seat materials are deteriorated by fire, the seat floats to shut off the line media.
- O-ring & Gasket Combination: Prevents leakage from the body joint area.
- Floating Spring-loaded Seats: Assure sealing even at low pressures.

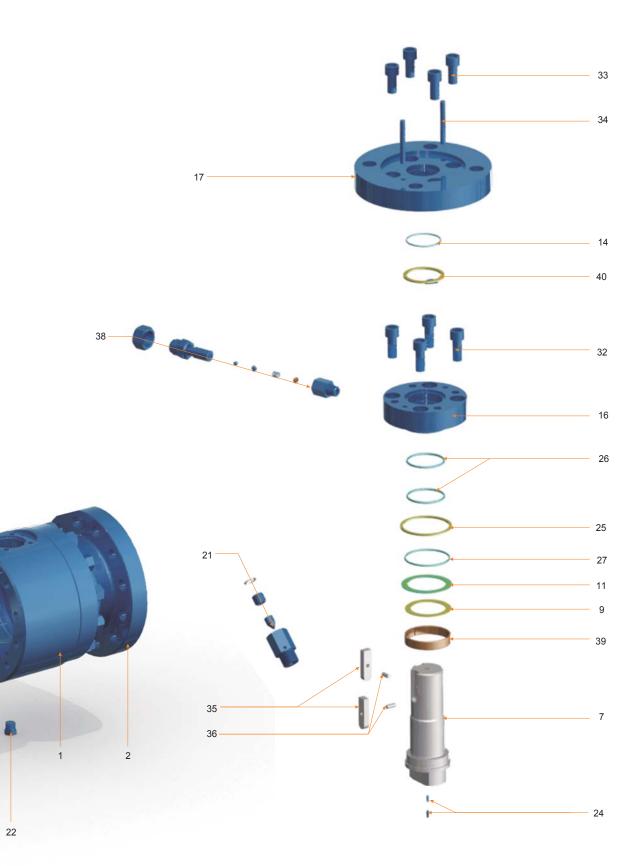
No.	Part	Standard	Stainless Steel	Sour Service	Low Temperature Service
1	Body	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2
2	Closure	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2
3	Ball	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP
4	Seat Assembly (5)+(6)	Assembled By No. 5 & 6			
5*	Seat Insert	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK
6	Seat Ring	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 Alignment Pin	ASTM A182-F316	ASTM A182-F316	ASTM A182-F316	ASTM A182-F316
9	Thrust Washer	PTFE	PTFE	PTFE	PTFE
10	Trunnion Support	ASTM A216-WCB/ENP	ASTM A351-CF8M	ASTM A216-WCB/ENP	ASTM A352-LCB/ENP
11	Gasket	316SS + Graphite	316SS + Graphite	316SS + Graphite	316SS + Graphite
12	Body Gasket	316SS + Graphite	316SS + Graphite	316SS + Graphite	316SS + Graphite
13	Spacer	PTFE	PTFE	PTFE	PTFE
14	Weather Seal Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
15	Firesafe Gasket	316SS + Graphite	316SS + Graphite	316SS + Graphite	316SS + Graphite
16	Gland Cap	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2
17	Top Flange	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2
18	Thrust Washer	316 + PTFE + MoS2			
19	Bearing	316 + PTFE + MoS2			
20	Seat Follower	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP
21	Vent Valve	Assembly	Assembly	Assembly	Assembly
22	Drain	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
23	Seat Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
24	Anti-static Device	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
25	Gasket	316SS + Graphite	316SS + Graphite	316SS + Graphite	316SS + Graphite
26*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
27*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
28*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
29*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
30	Body Stud	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
31	Body Nut	ASTM A194-2H	ASTM A194-8	ASTM A194-2HM	ASTM A194-7M
32	Screw	Carbon Steel	Stainless Steel	Carbon Steel	ASTM A320-L7M
33	Screw	Carbon Steel	Stainless Steel	Carbon Steel	ASTM A320-L7M
34	Gland Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
35	Key	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
36	Spring Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
37	Seat Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
38	Stem Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
39	Bearing	316 + PTFE + MoS2			
		316SS + Graphite	316SS + Graphite	316SS + Graphite	316SS + Graphite

 $[\]ensuremath{^{\star}}\xspace Please$ contact a Neway sales or technical team to confirm supplied materials.

Index No.	Part
1	Body
2	Closure
3	Ball
4	Seat Assembly (5)+(6)
5	Seat Insert
6	Seat Ring
7	Stem
8	Trunnion Alignment Pin
9	Thrust Washer
10	Trunnion Support
11	Gasket
12	Body Gasket
13	Spacer
14	Weather Seal Ring
15	Firesafe Gasket
16	Gland Cap
17	Top Flange
18	Thrust Washer
19	Bearing
20	Seat Follower

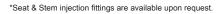
Index No.	Part
21	Vent Valve
22	Drain
23	Seat Spring
24	Anti-static Device
25	Gasket
26	O-Ring
27	O-Ring
28	O-Ring
29	O-Ring
30	Body Stud
31	Body Nut
32	Screw
33	Screw
34	Gland Pin
35	Key
36	Spring Pin
37	Seat Injection
38	Stem Injection
39	Bearing
40	Gasket

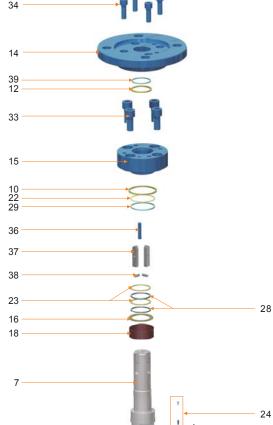


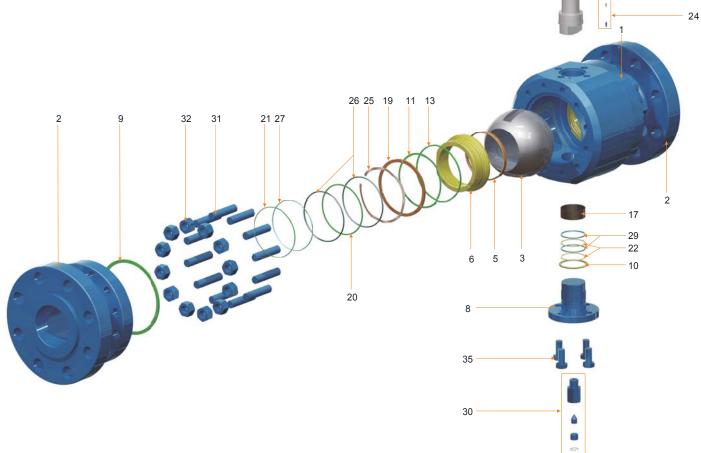


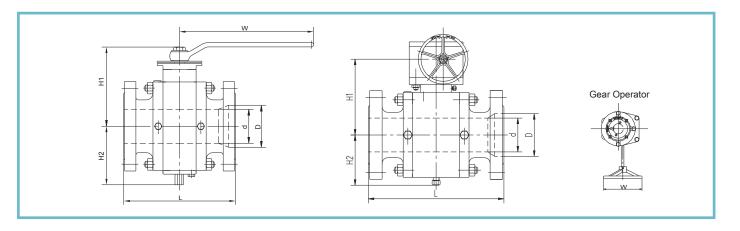
Index No.	Part
1	Body
2	Closure
3	Ball
4	Seat Assembly (5)+(6)
5	Seat Insert
6	Seat Ring
7	Stem
8	Trunnion Alignment Pin
9	Body Gasket
10	Gasket
11	Spacer
12	Gasket
13	Seat Fire safe Gasket
14	Top Flange
15	Flange Cap
16	Thrust Washer
17	Trunnion Bearing
18	Stem Bearing
19	Seat Follower
20	Retaining Ring

Index No.	Part
21	Retaining Ring
22	Retaining Ring
23	Retaining Ring
24	Anti-static Spring
25	Seat Spring
26	O-Ring
27	O-Ring
28	O-Ring
29	O-Ring
30	Vent Valve
31	Bolt
32	Nut
33	Nut
34	Screw
35	Bolt
36	Pin
37	Stem Key
38	Pin
39	Weather Seal Ring







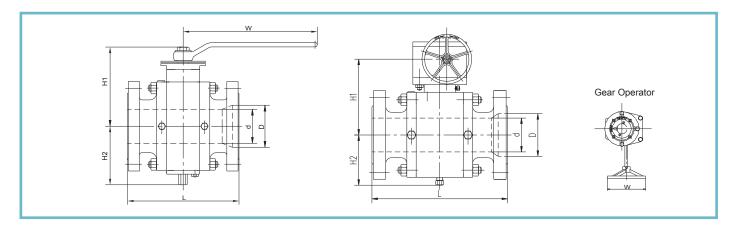


150 LB Dimensions

						Full	Port						
Si	ze	[)	Į	_	H	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	7.01	178	7.87	200	4.33	110	10.43	265	46.3	21
3	80	2.99	76	7.99	203	11.81	300	4.96	126	11.22	285	70.6	32
4	100	4.02	102	9.02	229	12.40	315	6.50	165	11.22	285	110.2	50
6	150	5.98	152	15.51	394	13.19	335	6.50	165	11.81	*300	361.6	164
8	200	7.99	203	17.99	457	15.94	405	7.87	200	11.81	*300	760.6	345
10	250	10.00	254	21.02	534	16.81	427	8.66	220	11.81	*300	970.0	440
12	300	12.01	305	24.02	610	18.31	465	10.31	262	19.69	*500	1272.1	577
14	350	13.27	337	27.01	686	19.92	506	11.54	293	23.62	*600	1893.7	859
16	400	15.24	387	30.00	762	24.49	622	13.43	341	23.62	*600	2522.1	1144
18	450	17.24	438	34.02	864	26.22	666	16.22	412	23.62	*600	3174.6	1440
20	500	19.25	489	35.98	914	28.74	730	17.13	435	23.62	*600	4285.7	1944
22	550	21.26	540	39.02	991	32.80	833	18.90	480	23.62	*600	5185.2	2352
24	600	23.27	591	42.01	1067	35.24	895	20.39	518	31.50	*800	6179.5	2803
26	650	25.00	635	45.00	1143	35.43	900	21.06	535	31.50	*800	7054.7	3200
28	700	27.01	686	49.02	1245	36.81	935	21.34	542	31.50	*800	8924.2	4048
30	750	29.02	737	50.98	1295	39.76	1010	23.82	605	31.50	*800	13668.4	6200
32	800	30.75	781	54.02	1372	41.73	1060	25.59	650	31.50	*800	12103.2	5490
35	850	32.76	832	57.99	1473	42.40	1077	25.59	650	31.50	*800	14779.5	6704
36	900	34.49	876	60.00	1524	43.90	1115	27.56	700	31.50	*800	21164.0	9600
40	1000	38.50	978	67.99	1727	55.12	1400	34.06	865	31.50	*800	22643.3	10271
42	1050	40.24	1022	78.23	1987	62.91	1598	35.43	900	31.50	*800	26697.5	12110
48	1200	45.98	1168	83.46	2120	67.80	1722	41.02	1042	31.50	*800	40476.2	18360

							Reduce	d Port							
S	ize	C	d	[)		_	Н	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	7.99	203	7.87	200	4.33	110	10.43	265	58.4	27
4×3	100×80	2.99	76	4.02	102	9.02	229	11.81	300	4.96	126	11.22	285	88.2	40
6×4	150×100	4.02	102	5.98	152	15.51	394	12.40	315	6.50	165	11.22	285	149.9	68
8×6	200×150	5.98	152	7.99	203	17.99	457	13.19	335	6.69	170	11.81	*300	390.2	177
10×8	250×200	7.99	203	10.00	254	21.02	534	15.94	405	7.87	200	11.81	*300	676.8	307
12×10	300×250	10.00	254	12.01	305	24.02	610	16.81	427	8.66	220	11.81	*300	1122.1	509
14×12	350×300	12.01	305	13.27	337	27.01	686	18.31	465	10.31	262	19.69	*500	1591.7	722
16×14	400×350	13.27	337	15.24	387	30.00	762	19.92	506	11.54	293	23.62	*600	2138.5	970
18×16	450×400	15.24	387	17.24	438	34.02	864	24.49	622	13.43	341	23.62	*600	2846.1	1291
20×18	500×450	17.24	438	19.25	489	35.98	914	26.22	666	15.43	392	23.62	*600	3681.7	1670
22×18	550×450	17.24	438	21.26	540	39.02	991	26.22	666	15.43	392	23.62	*600	5165.3	2343
24×20	600×500	19.25	489	23.27	591	42.01	1067	28.74	730	17.13	435	23.62	*600	4241.6	1924
26×22	650×550	21.26	540	25.00	635	45.00	1143	32.80	833	18.90	480	23.62	*600	4883.2	2215
28×24	700×600	23.27	591	27.01	686	49.02	1245	35.24	895	20.39	518	31.50	*800	5952.4	2700
30×24	750×600	23.27	591	29.02	737	50.98	1295	35.24	895	20.39	518	31.50	*800	6433.0	2918
32×26	800×650	25.00	635	30.75	781	54.02	1372	35.43	900	21.06	535	31.50	*800	8829.4	4005
34×28	850×700	27.01	686	32.76	832	57.99	1473	36.81	935	21.34	542	31.50	*800	9799.4	4445
36×30	900×750	29.02	737	34.49	876	60.00	1524	39.76	1010	23.82	605	31.50	*800	11011.9	4995
40×34	1000×850	32.76	832	38.50	978	67.99	1727	42.40	1077	25.59	650	31.50	*800	18077.6	8200
42×36	1050×900	34.49	876	40.24	1022	78.23	1987	43.90	1115	27.56	700	31.50	*800	23966.1	10871
48×40	1200×1000	38.50	978	45.98	1168	83.46	2120	55.12	1400	34.06	865	31.50	*800	29806.0	13520

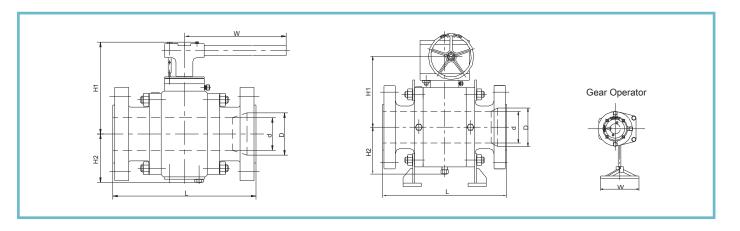
*Gear Operator



						Full	Port						
Si	ize	[H	11	Н	2	V	V	Wei	ight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	8.50	216	8.11	206	4.45	113	10.43	265	55.1	25
3	80	2.99	76	11.14	283	12.40	315	5.08	129	15.75	400	101.4	46
4	100	4.02	102	12.01	305	12.99	330	6.65	169	29.53	750	169.8	77
6	150	5.98	152	15.87	403	13.58	345	5.83	148	11.81	*300	377.0	171
8	200	7.99	203	19.76	502	16.34	415	7.28	185	11.81	*300	709.9	322
10	250	10.00	254	22.36	568	16.81	427	8.90	226	15.75	*400	1190.5	540
12	300	12.01	305	25.51	648	18.31	465	10.59	269	19.69	*500	1682.1	763
14	350	13.27	337	30.00	762	20.43	519	11.81	300	23.62	*600	2149.5	975
16	400	15.24	387	32.99	838	25.12	638	13.78	350	23.62	*600	3086.4	1400
18	450	17.24	438	35.98	914	26.89	683	15.83	402	23.62	*600	3780.9	1715
20	500	19.25	489	39.02	991	29.45	748	17.56	446	23.62	*600	5465.2	2479
22	550	21.26	540	42.99	1092	33.62	854	19.37	492	23.62	*600	4894.2	2220
24	600	23.27	591	45.00	1143	36.10	917	20.91	531	31.50	*800	6371.3	2890
28	700	27.01	686	52.99	1346	37.72	958	21.89	556	31.50	*800	10086.0	4575
30	750	29.02	737	55.00	1397	40.75	1035	24.41	620	31.50	*800	12323.6	5590
32	800	30.75	781	60.00	1524	42.80	1087	26.22	666	31.50	*800	13756.6	6240
34	850	32.76	832	64.02	1626	43.46	1104	26.22	666	31.50	*800	16247.8	7370
36	900	34.49	876	67.99	1727	45.00	1143	28.27	718	31.50	*800	18595.7	8435
40	1000	38.50	978	75.98	1930	56.50	1435	34.92	887	31.50	*800	24691.4	11200
42	1050	40.24	1022	80.00	2032	64.49	1638	36.34	923	31.50	*800	28769.8	13050
48	1200	45.98	1168	85.43	2170	69.49	1765	42.05	1068	31.50	*800	41887.1	19000

							Reduce	d Port							
5	Size	(d	Γ)		L	Н	1	Н	12	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	11.14	283	8.11	206	4.45	113	10.43	265	79.4	36
4×3	100×80	2.99	76	4.02	102	12.01	305	12.40	315	5.08	129	15.75	400	121.3	55
6×4	150×100	4.02	102	5.98	152	15.87	403	12.99	330	6.65	169	29.53	750	246.9	112
8×6	200×150	5.98	152	7.99	203	19.76	502	13.58	345	5.83	148	11.81	*300	489.4	222
10×8	250×200	7.99	203	10.00	254	22.36	568	16.34	415	7.28	185	11.81	*300	839.9	381
12×10	300×250	10.00	254	12.01	305	25.51	648	16.81	427	8.90	226	19.69	*500	1278.7	580
14×12	350×300	12.01	305	13.27	337	30.00	762	18.31	465	10.59	269	23.62	*600	2028.2	920
16×14	400×350	13.27	337	15.24	387	32.99	838	20.43	519	11.81	300	23.62	*600	2314.8	1050
18×16	450×400	15.24	387	17.24	438	35.98	914	25.12	638	13.78	350	23.62	*600	3373.0	1530
20×18	500×450	17.24	438	19.25	489	39.02	991	26.89	683	15.83	402	23.62	*600	4034.4	1830
22×18	550×450	17.24	438	21.26	540	42.99	1092	26.89	683	15.83	402	23.62	*600	4431.2	2010
24×20	600×500	19.25	489	23.27	591	45.00	1143	29.45	748	17.56	446	23.62	*600	4894.2	2220
28×24	700×600	23.27	591	27.01	686	52.99	1346	36.10	917	20.91	531	31.50	*800	7054.7	3200
30×24	750×600	23.27	591	29.02	737	55.00	1397	36.10	917	20.91	531	31.50	*800	8708.1	3950
34×28	850×700	27.01	686	32.76	832	64.02	1626	37.72	958	21.89	556	31.50	*800	10681.2	4845
36×30	900×750	29.02	737	34.49	876	67.99	1727	40.75	1035	24.41	620	31.50	*800	13448.0	6100
40×34	1000×850	32.76	832	38.50	978	75.98	1930	43.46	1104	26.22	666	31.50	*800	18077.6	8200
42×36	1050×900	34.49	876	40.24	1022	80.00	2032	45.00	1143	28.27	718	31.50	*800	20282.2	9200
48×40	1200×1000	38.50	978	45.98	1168	85.43	2170	56.50	1435	34.92	887	31.50	*800	33068.8	15000

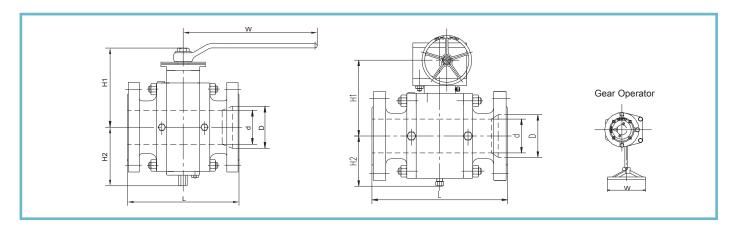
^{*}Gear Operator



						Full	Port						
Si	ze	[)	l		H	l1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	11.50	292	8.11	206	4.45	113	15.75	400	72.8	33
3	80	2.99	76	14.02	356	12.40	315	5.08	129	29.53	750	141.1	64
4	100	4.02	102	17.01	432	12.99	330	6.65	169	39.37	1000	257.9	117
6	150	5.98	152	22.01	559	13.58	345	5.83	148	11.81	*300	628.3	285
8	200	7.99	203	25.98	660	16.34	415	7.28	185	11.81	*300	996.5	452
10	250	10.00	254	30.98	787	16.81	427	8.90	226	19.69	*500	1622.6	736
12	300	12.01	305	32.99	838	18.31	465	10.59	269	23.62	*600	2204.6	1000
14	350	13.27	337	35.00	889	20.43	519	11.81	300	23.62	*600	2929.9	1329
16	400	15.24	387	39.02	991	25.12	638	13.78	350	23.62	*600	3813.9	1730
18	450	17.24	438	42.99	1092	26.89	683	15.83	402	23.62	*600	5037.5	2285
20	500	19.25	489	47.01	1194	29.45	748	17.56	446	23.62	*600	6203.7	2814
22	550	21.26	540	50.98	1295	33.62	854	19.37	492	31.50	*800	7429.5	3370
24	600	23.27	591	55.00	1397	36.10	917	20.91	531	31.50	*800	10846.6	4920
28	700	27.01	686	60.98	1549	37.72	958	21.89	556	31.50	*800	13359.8	6060
30	750	29.02	737	65.00	1651	40.75	1035	24.41	620	31.50	*800	14748.7	6690
32	800	30.75	781	70.00	1778	42.80	1087	26.22	666	31.50	*800	17250.9	7825
34	850	32.76	832	75.98	1930	43.46	1104	26.22	666	31.50	*800	18650.8	8460
36	900	34.49	876	82.01	2083	45.00	1143	28.27	718	31.50	*800	23478.8	10650
40	1000	38.50	978	85.00	2159	56.50	1435	34.92	887	31.50	*800	32407.4	14700
42	1050	40.24	1022	85.63	2175	64.49	1638	36.34	923	31.50	*800	36177.2	16410
48	1200	45.98	1168	95.87	2435	69.49	1765	42.05	1068	31.50	*800	53351.0	24200

							Reduce	d Port							
S	ize	(d				_	Н	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	14.02	356	8.11	206	4.45	113	15.75	400	103.7	47
4×3	100×80	2.99	76	4.02	102	17.01	432	12.40	315	5.08	129	29.53	750	189.6	86
6×4	150×100	4.02	102	5.98	152	22.01	559	12.99	330	6.65	169	39.37	1000	357.1	162
8×6	200×150	5.98	152	7.99	203	25.98	660	13.58	345	5.83	148	11.81	*300	670.2	304
10×8	250×200	7.99	203	10.00	254	30.98	787	16.34	415	7.28	185	11.81	*300	1181.7	536
12×10	300×250	10.00	254	12.01	305	32.99	838	16.81	427	8.90	226	19.69	*500	1838.6	834
14×12	350×300	12.01	305	13.27	337	35.00	889	18.31	465	10.59	269	23.62	*600	2403.0	1090
16×14	400×350	13.27	337	15.24	387	39.02	991	20.43	519	11.81	300	23.62	*600	2888.0	1310
18×16	450×400	15.24	387	17.24	438	42.99	1092	25.12	638	13.78	350	23.62	*600	4135.8	1876
20×18	500×450	17.24	438	19.25	489	47.01	1194	26.89	683	15.83	402	23.62	*600	5564.4	2524
22×18	550×450	17.24	438	21.26	540	50.98	1295	26.89	683	15.83	402	23.62	*600	5357.1	2430
24×20	600×500	19.25	489	23.27	591	55.00	1397	29.45	748	17.56	446	23.62	*600	7583.8	3440
28×24	700×600	23.27	591	27.01	686	60.98	1549	36.10	917	20.91	531	31.50	*800	9369.5	4250
30×24	750×600	23.27	591	29.02	737	65.00	1651	36.10	917	20.91	531	31.50	*800	10427.7	4730
34×28	850×700	27.01	686	32.76	832	75.98	1930	37.72	958	21.89	556	31.50	*800	15873.0	7200
36×30	900×750	29.02	737	34.49	876	82.01	2083	40.75	1035	24.41	620	31.50	*800	18959.4	8600
40×34	1000×850	32.76	832	38.50	978	85.00	2159	43.46	1104	26.22	666	31.50	*800	22089.9	10020
42×36	1050×900	34.49	876	40.24	1022	85.63	2175	45.00	1143	28.27	718	31.50	*800	24470.9	11100
48×40	1200×1000	38.50	978	45.98	1168	95.87	2435	56.50	1435	34.92	887	31.50	*800	37918.9	17200

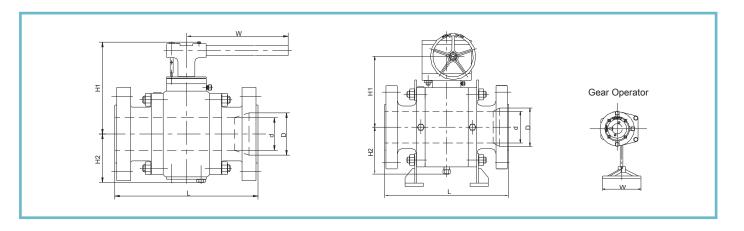
^{*}Gear Operator



						Full	Port						
Si	ize	[)		L	H	1	Н	2	V	V	Wei	ight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	14.49	368	4.69	119	4.69	119	18.11	460	143.3	65
3	80	2.99	76	15.00	381	5.24	133	5.24	133	39.37	1000	202.8	92
4	100	4.02	102	17.99	457	6.93	176	6.93	176	59.06	1500	339.5	154
6	150	5.98	152	24.02	610	6.02	153	6.02	153	11.81	*300	864.2	392
8	200	7.99	203	29.02	737	7.60	193	7.60	193	15.75	*400	1351.4	613
10	250	10.00	254	32.99	838	9.25	235	9.25	235	19.69	*500	1807.8	820
12	300	12.01	305	37.99	965	11.02	280	11.02	280	23.62	*600	2480.2	1125
14	350	12.76	324	40.51	1029	12.28	312	12.28	312	23.62	*600	3549.4	1610
16	400	14.76	375	44.49	1130	14.37	365	14.37	365	23.62	*600	4431.2	2010
18	450	16.73	425	47.99	1219	16.30	414	16.30	414	23.62	*600	6194.9	2810
20	500	18.62	473	52.01	1321	18.07	459	18.07	459	23.62	*600	8730.2	3960
22	550	20.63	524	55.98	1422	19.96	507	19.96	507	31.50	*800	9722.2	4410
24	600	22.52	572	60.98	1549	21.54	547	21.54	547	31.50	*800	17901.2	8120
28	700	26.26	667	69.02	1753	22.56	573	22.56	573	31.50	*800	22491.2	10202
30	750	28.11	714	74.02	1880	25.12	638	25.12	638	31.50	*800	25617.3	11620
32	800	30.00	762	80.00	2032	27.01	686	27.01	686	31.50	*800	26679.9	12102
34	850	31.89	810	85.00	2159	27.09	688	27.09	688	31.50	*800	38496.5	17462
36	900	33.74	857	90.00	2286	29.09	739	29.09	739	31.50	*800	44431.2	20154

							Reduc	ed Port							
Si	ize	(d	[l	_	Н	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3×2	80×50	2.01	51	2.99	76	15.00	381	8.54	217	4.69	119	18.11	460	156.5	71
4×3	100×80	2.99	76	4.02	102	17.99	457	12.87	327	5.24	133	39.37	1000	244.7	111
6×4	150×100	4.02	102	5.98	152	24.02	610	13.50	343	6.93	176	59.06	1500	471.8	214
8×6	200×150	5.98	152	7.99	203	29.02	737	14.09	358	6.02	153	11.81	*300	1058.2	480
10×8	250×200	7.99	203	10.00	254	32.99	838	16.97	431	7.60	193	15.75	*400	1433.0	650
12×10	300×250	10.00	254	12.01	305	37.99	965	17.44	443	9.25	235	19.69	*500	1913.6	868
14×12	350×300	12.01	305	12.76	324	40.51	1029	19.06	484	11.02	280	23.62	*600	2888.0	1310
16×14	400×350	12.76	324	14.76	375	44.49	1130	21.26	540	12.28	312	23.62	*600	4034.4	1830
18×16	450×400	14.76	375	16.73	425	47.99	1219	25.98	660	14.37	365	23.62	*600	4861.1	2205
20×18	500×450	16.73	425	18.62	473	52.01	1321	27.56	700	16.30	414	23.62	*600	6922.4	3140
22×18	550×450	16.73	425	20.63	524	55.98	1422	27.56	700	16.30	414	23.62	*600	7248.7	3288
24×20	600×500	18.62	473	22.52	572	60.98	1549	30.31	770	18.07	459	23.62	*600	10582.0	4800
28×24	700×600	22.52	572	26.26	667	69.02	1753	37.20	945	21.54	547	31.50	*800	16710.8	7580
30×24	750×600	22.52	572	28.11	714	74.02	1880	37.20	945	21.54	547	31.50	*800	17594.8	7981
34×28	850×700	26.26	667	31.89	810	85.00	2159	38.86	987	22.56	573	31.50	*800	24695.8	11202
36×30	900×750	28.11	714	33.74	857	90.00	2286	41.97	1066	25.12	638	31.50	*800	34508.4	15653

^{*}Gear Operator



1500 LB Dimensions

						Full	Port						
Si	ze	[H	1	Н	2	V	V	We	ight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4	100	4.02	102	21.50	546	6.54	166	6.54	166	11.81	*300	571.0	259
6	150	5.75	146	27.76	705	7.56	192	7.56	192	15.75	*400	1047.2	475
8	200	7.64	194	32.76	832	9.37	238	9.37	238	19.69	*500	1810.0	821
10	250	9.41	239	39.02	991	10.79	274	10.79	274	23.62	*600	4025.6	1826
12	300	11.38	289	44.49	1130	12.52	318	12.52	318	23.62	*600	4784.0	2170
14	350	12.52	318	49.49	1257	19.02	483	19.02	483	23.62	*600	4960.3	2250
16	400	14.25	362	54.49	1384	21.02	534	21.02	534	23.62	*600	6084.7	2760
18	450	16.02	407	60.51	1537	23.86	606	23.86	606	23.62	*600	8037.9	3646
20	500	17.99	457	65.51	1664	27.01	686	27.01	686	23.62	*600	9914.0	4497
22	550	19.69	500	71.50	1816	28.78	731	28.78	731	23.62	*600	1234.5	5731
24	600	21.50	546	80.43	2043	30.51	775	30.51	775	23.62	*600	15765.0	7151

							Reduc	ed Port							
Si	ze	(d			l	_	Н	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
6×4	150×100	4.02	102	5.75	146	27.76	705	13.58	345	6.54	166	59.06	1500	760.6	345
8×6	200×150	5.75	146	7.64	194	32.76	832	14.37	365	7.56	192	11.81	*300	1320.5	599
10×8	250×200	7.64	194	9.49	241	39.02	991	16.65	423	9.37	238	15.75	*400	2636.7	1196
12×10	300×250	9.49	241	11.38	289	44.49	1130	22.05	560	10.79	274	19.69	*500	2954.1	1340
14×12	350×300	11.38	289	12.52	318	49.49	1257	23.94	608	12.52	318	23.62	*600	6424.2	2914
16×14	400×350	12.52	318	14.25	362	54.49	1384	26.06	662	19.09	485	23.62	*600	5445.3	2470
18×16	450×400	14.25	362	15.98	406	60.51	1537	31.34	796	21.02	534	23.62	*600	6503.5	2950
20×18	500×450	16.02	407	17.76	451	65.51	1664	33.43	849	23.86	606	23.62	*600	7385.4	3350
22×18	550×450	16.02	407	19.49	495	71.50	1816	33.43	849	11.93	303	23.62	*600	7936.5	3600
24×20	600×500	17.99	457	20.98	533	80.43	2043	37.95	964	27.01	686	31.50	*800	12896.8	5850

2500 LB Dimensions

						Full	Port						
Si	ze		D			Н	1	Н	2	V	V	Wei	ight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.73	44	17.76	451	9.41	239	5.63	143	15.75	*400	198.4	90
3	80	2.52	64	22.76	578	10.43	265	7.52	191	19.69	*500	440.9	200
4	100	3.50	89	26.50	673	11.10	282	7.83	199	19.69	*500	848.8	385
6	150	5.24	133	35.98	914	20.59	523	11.77	299	23.62	*600	1715.2	778
8	200	7.13	181	40.24	1022	24.21	615	14.88	378	27.56	*700	2980.6	1352
10	250	8.86	225	50.00	1270	23.03	585	17.13	435	29.92	*760	4711.2	2137
12	300	10.51	267	55.98	1422	27.72	704	21.26	540	29.92	*760	7202.4	3267

*Gear Operator



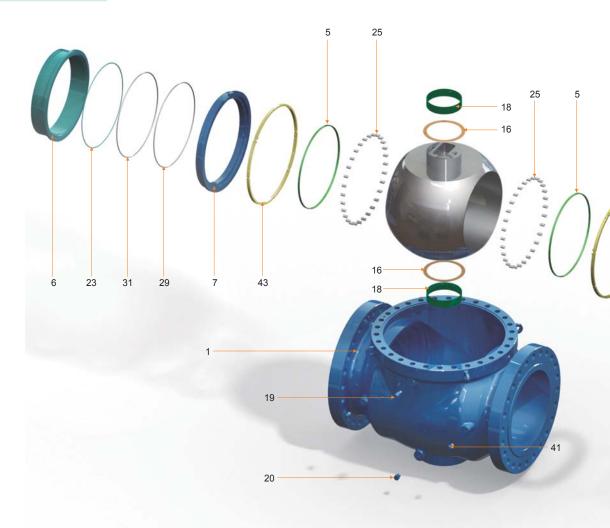
- Two O-ring Seals: Prevent leakage from the stem area.
- Blow-out Proof Stem (internally inserted): Safety feature that assures stem sealing at all pressures.
- Back-up Metal-to-Metal Sealing: When primary soft-seat materials are deteriorated by fire, the seat floats to shut off the line media.
- One-piece Body: Provides the same rigidity as a pipe.
- O-ring & Gasket Combination: Prevents leakage from the body joint area.
- Floating Spring-loaded Seats: Assure sealing even at low pressures.
- Emergency Sealant Injection Fitting: Allows external intervention to prevent seat leakage.

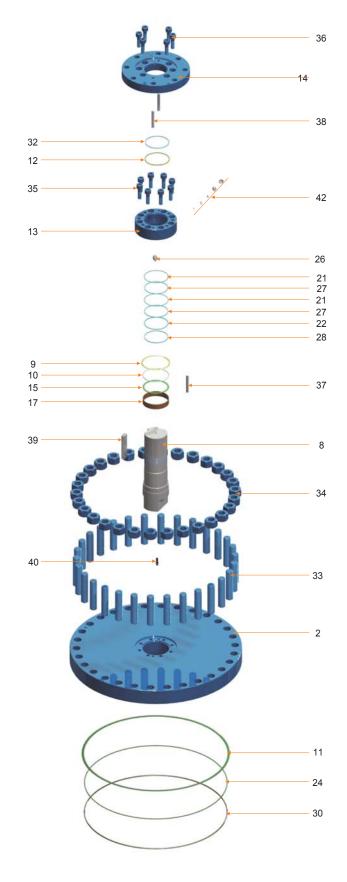
No.	Part	Standard	Stainless Steel	Sour Service	Low Temperature Service
1	Body	ASTM A216-WCB	ASTM A351-CF8M	ASTM A216-WCB	ASTM A352-LCB
2	Closure	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2
3	Ball	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP
4	Seat Assembly (5)+(6)	Assembled By No. 5 & 6			
5*	Seat Insert	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK	RPTFE/NYLON/PEEK
6	Seat Ring	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP
7	Spring Seat	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP
8	Stem	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP
9	Gasket	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	Gland Cap	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2
14	Top Flange	ASTM A105N	ASTM A182-F316	ASTM A105N	ASTM A350-LF2
15	Thrust Washer	PTFE	PTFE	PTFE	PTFE
16	Thrust Washer	PTFE	PTFE	PTFE	PTFE
17	Bearing	316 + PTFE + MoS2			
18	Bearing	316 + PTFE + MoS2			
19	Vent Valve	Assembly	Assembly	Assembly	Assembly
20	Drain	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
21	Retainer Ring	PTFE	PTFE	PTFE	PTFE
22	Retainer Ring	PTFE	PTFE	PTFE	PTFE
23	Retainer Ring	PTFE	PTFE	PTFE	PTFE
24	Retainer Ring	PTFE	PTFE	PTFE	PTFE
25	Seat Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
26	Anti-static Device	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
27*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
28*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
29*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
30*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
31*	O-Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
32*	Weather Seal Ring	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON	NBR/HNBR/VITON
33	Body Stud	ASTM A193-B7	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
34	Body Nut	ASTM A194-2H	ASTM A194-8	ASTM A194-2HM	ASTM A194-7M
35	Screw	Carbon Steel	Stainless Steel	Carbon Steel	ASTM A320-L7M
36	Screw	Carbon Steel	Stainless Steel	Carbon Steel	ASTM A320-L7M
37	Gland Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
38	Gland Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
39	Key	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
40	Spring Pin	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
41	Seat Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
42	Stem Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
43	Support Ring	ASTM A105N/ENP	ASTM A182-F316	ASTM A105N/ENP	ASTM A350-LF2/ENP

^{*}Please contact a Neway sales or technical team to confirm supplied materials.

Part
Body
Closure
Ball
Seat Assembly (5)+(6)
Seat Insert
Seat Ring
Spring Seat
Stem
Gasket
Gasket
Gasket
Gasket
Gland Cap
Top Flange
Thrust Washer
Thrust Washer
Bearing
Bearing
Vent Valve
Drain
Drain Retainer Ring

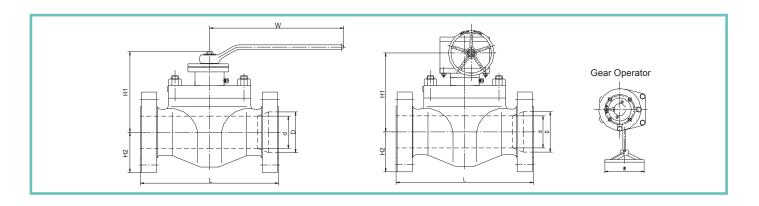
Index No.	Part
23	Retainer Ring
24	Retainer Ring
25	Seat Spring
26	Anti-static Device
27	O-Ring
28	O-Ring
29	O-Ring
30	O-Ring
31	O-Ring
32	Weather Seal Ring
33	Body Stud
34	Body Nut
35	Screw
36	Screw
37	Gland Pin
38	Gland Pin
39	Key
40	Spring Pin
41	Seat Injection
42	Stem Injection
43	Support Ring







BE Series Ball Valve



600 LB Dimensions

						Full	Port						
Si	ze	[)	ı	_	H	1	Н	2	V	V	Wei	ight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
11/2	40	1.50	38	9.49	241	8.23	209	2.76	70	15.75	400	66.1	30
2	50	2.01	51	11.50	292	7.68	195	4.33	110	15.75	400	83.8	38
3	80	2.99	76	14.02	356	9.45	240	4.33	110	29.53	750	176.4	80
4	100	4.02	102	17.01	432	11.02	280	6.89	175	39.37	1000	330.7	150
6	150	5.98	152	22.01	559	12.01	305	7.68	195	11.81	*300	652.6	296
8	200	7.99	203	25.98	660	15.75	400	11.02	280	11.81	*300	965.6	438
10	250	10.00	254	30.98	787	17.13	435	11.22	285	19.69	*500	1325.0	601
12	300	12.01	305	32.99	838	17.32	440	12.60	320	23.62	*600	1377.9	625
14	350	13.27	337	35.00	889	19.88	505	13.39	340	23.62	*600	2711.6	1230
16	400	15.24	387	39.02	991	23.23	590	16.14	410	23.62	*600	3384.0	1535
18	450	17.24	438	42.99	1092	27.56	700	17.52	445	23.62	*600	4706.8	2135
20	500	19.25	489	47.01	1194	30.51	775	20.08	510	23.62	*600	5820.1	2640
24	600	23.27	591	55.00	1397	33.07	840	25.20	640	23.62	*600	8730.2	3960

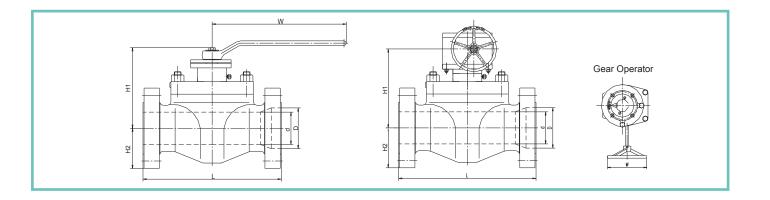
							Reduc	ed Port							
Si	ze	(d	[)		_	Н	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2x1½	50×40	1.50	38	2.01	51	11.50	292	8.23	209	2.76	70	15.75	400	88.2	40
3×2	80×50	2.01	51	2.99	76	14.02	356	7.68	195	4.33	110	15.75	400	119.0	54
4×3	100×80	2.99	76	4.02	102	17.01	432	9.45	240	4.33	110	29.53	750	218.3	99
6×4	150×100	4.02	102	5.98	152	22.01	559	11.02	280	6.89	175	39.37	1000	467.4	212
8×6	200×150	5.98	152	7.99	203	25.98	660	12.01	305	7.68	195	11.81	*300	670.2	304
10×8	250×200	7.99	203	10.00	254	30.98	787	15.75	400	11.02	280	11.81	*300	1124.3	510
12×10	300×250	10.00	254	12.01	305	32.99	838	17.13	435	11.22	285	19.69	*500	1988.5	902
14×12	350×300	12.01	305	13.27	337	35.00	889	17.32	440	12.60	320	23.62	*600	2403.0	1090
16×14	400×350	13.27	337	15.24	387	39.02	991	19.88	505	13.39	340	23.62	*600	2888.0	1310
18×16	450×400	15.24	387	17.24	438	42.99	1092	23.23	590	16.14	410	23.62	*600	3615.5	1640
20×18	500×450	17.24	438	19.25	489	47.01	1194	27.56	700	17.52	445	23.62	*600	5357.1	2430
24×20	600×500	19.25	489	23.27	591	55.00	1397	30.51	775	20.08	510	23.62	*600	7583.8	3440

^{*}Gear Operator

						E. O	Dowt						
							Port						
Si	ize	[)		L	H	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
11/2	40	1.50	38	12.01	305	8.46	215	3.15	80	15.75	400	88.2	40
2	50	2.01	51	14.49	368	7.87	200	4.72	120	29.53	750	114.6	52
3	80	2.99	76	15.00	381	9.45	240	5.12	130	39.37	1000	191.8	87
4	100	4.02	102	17.99	457	11.02	280	6.89	175	59.06	1500	352.7	160
6	150	5.98	152	24.02	610	13.78	350	8.66	220	11.81	*300	848.8	385
8	200	7.99	203	29.02	737	15.35	390	10.24	260	15.75	*400	1234.6	560
10	250	10.00	254	32.99	838	18.90	480	12.20	310	23.62	*600	1807.8	820
12	300	12.01	305	37.99	965	21.18	538	16.14	410	23.62	*600	2480.2	1125

^{*}Gear Operator

BE Series Ball Valve



900 LB Dimensions

							Reduc	ed Port							
Si	ze	(d)		L	Н	1	Н	12	V	V	We	ight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2x1½	50×40	1.50	38	2.01	51	14.49	368	8.46	215	3.15	80	15.75	400	97.0	44
3×1½	80×50	2.01	51	2.99	76	15.00	381	7.87	200	4.72	120	29.53	750	123.5	56
4×3	100×80	2.99	76	4.02	102	17.99	457	9.45	240	9.45	240	39.37	1000	207.2	94
6×4	150×100	4.02	102	5.98	152	24.02	610	11.02	280	11.02	280	59.06	1500	498.2	226
8×6	200×150	5.98	152	7.99	203	29.02	737	13.78	350	13.78	350	11.81	*300	1058.2	480
10×8	250×200	7.99	203	10.00	254	32.99	838	15.35	390	15.35	390	15.75	*400	1433.0	650
12×10	300×250	10.00	254	12.01	305	37.99	965	18.90	480	18.90	480	23.62	*600	1913.6	868

^{*}Gear Operator

						Full	Port						
Si	ize)		L	H	l1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
11/2	40	1.50	38	12.01	305	8.66	220	3.54	90	15.75	400	88.2	40
2	50	2.01	51	14.49	368	8.07	205	4.72	120	29.53	750	132.3	60
3	80	2.99	76	18.50	470	8.27	210	4.92	125	39.37	1000	253.5	115
4	100	4.02	102	21.50	546	9.65	245	6.30	160	11.81	*300	427.7	194
6	150	5.75	146	27.76	705	13.19	335	10.04	255	15.75	*400	1278.7	580
8	200	7.64	194	32.76	832	16.81	427	13.39	340	19.69	*500	1657.8	752
10	250	9.49	241	39.02	991	19.76	502	15.00	381	23.62	*600	2634.5	1195
12	300	11.38	289	44.49	1130	20.98	533	17.24	438	23.62	*600	4784.0	2170

							Reduc	ed Port							
Si	ize		d	[l	_	Н	1	Н	2	V	V	Wei	ght
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2x1½	50×40	1.50	38	2.01	51	14.49	368	8.66	220	3.54	90	15.75	400	97.0	44
3×1½	80×50	2.01	51	2.99	76	18.50	470	8.07	205	4.72	120	29.53	750	180.8	82
4×3	100×80	2.99	76	4.02	102	21.50	546	8.27	210	4.92	125	39.37	1000	330.7	150
6×4	150×100	4.02	102	5.75	146	27.76	705	9.65	245	6.30	160	11.81	*300	650.4	295
8×6	200×150	5.75	146	7.64	194	32.76	832	13.19	335	10.04	255	15.75	*400	1521.2	690
10×8	250×200	7.64	194	9.49	241	39.02	991	16.81	427	13.39	340	19.69	*500	2050.3	930
12×10	300×250	9.49	241	11.38	289	44.49	1130	19.76	502	15.00	381	23.62	*600	2954.1	1340

^{*}Gear Operator

Design Features

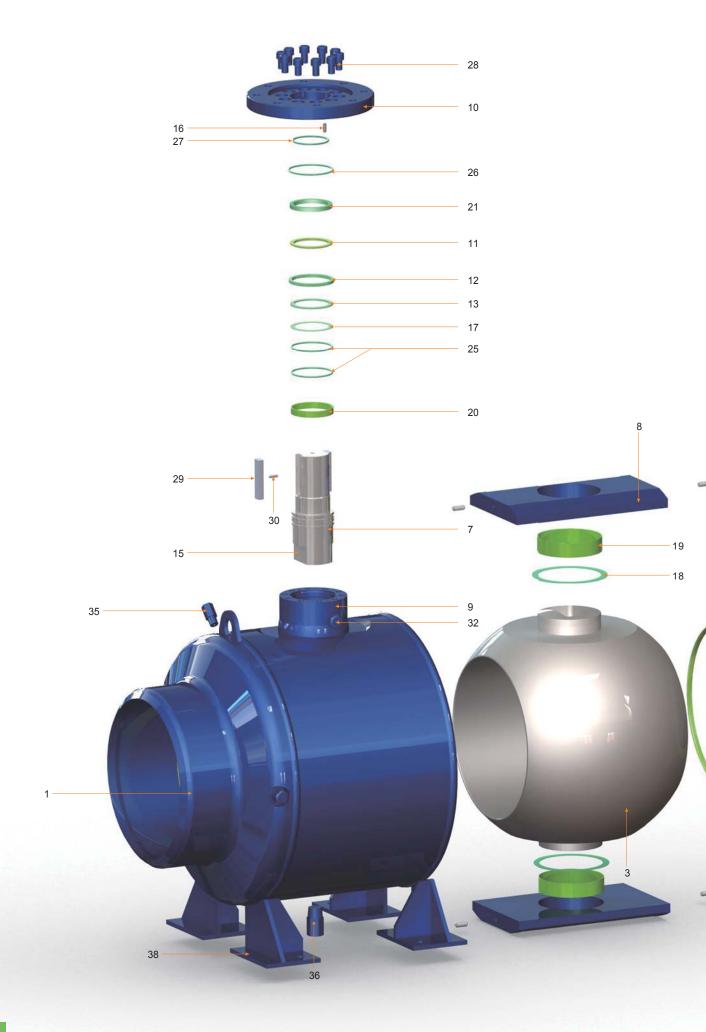


- 1 Emergency Sealant Injection Fitting: Allows external intervention to prevent stem leakage.
- Blow-out Proof Stem (internally inserted): Safety feature that assures stems sealing at all pressures.
- 3 Emergency Sealant Injection Fitting: Allows external intervention to prevent seat leakage.
- Fully Welded Construction: Eliminates external leakage through body connections and closures.
- 5 Floating Spring-loaded Seats: Assure sealing even at low pressures.
- 6 Back-up Metal-to-Metal Sealing: When primary soft-seat materials are deteriorated by fire, the seat floats to shut off the line media.

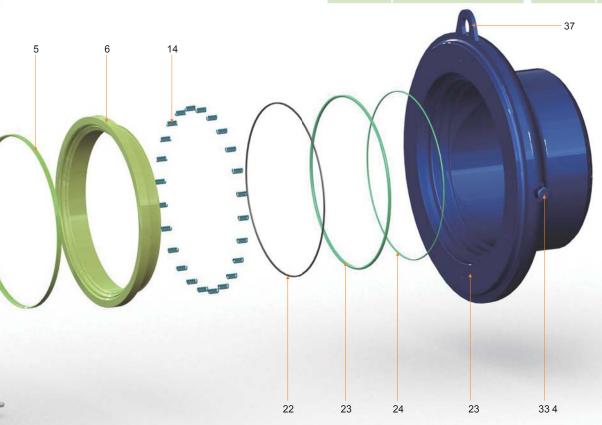
1 Body	No.	Part	Standard	Low Temperature Service
Seal Assembly (5)+(6) Assembled By No. 5 & 6 Assembled By No. 5 & 6	1	Body	ASTM A105/QT	ASTM A350-LF2
4 Seat Assembly (5)+(6) Assembled By No. 5 & 6 5° Seat Insert PTENYLON/PEEK PTENYLON/PEEK 6 Saa Ring ASTM AIOSNENP ASTM A300-LEZENP 7 Stam ASTM A10SNENP ASTM A300-LEZENP 8 Trunnon Support ASTM A10SNENP ASTM A300-LEZENP 8 Trunnon Support ASTM A10SNENP ASTM A300-LEZENP 9 Claird Cap ASTM A10SNENP ASTM A300-LEZENP 10 Top Flange ASTM A10SN ASTM A300-LEZ 11 Support Ring ASTM A10SN ASTM A300-LEZ 12 Quanto Ring ASTM A182-F6a ASTM A182-F6a 13 Wissher ASTM A182-F6a ASTM A182-F6a 14 Sout Spring Incorel X-750 Incorel X-750 15 Anti-static Device ASTM A276-316 ASTM A276-316 16 Gland Pin ASI 1035 ASTM A276-316 17 Thrust Wesher RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Frequite Gasket Graphite Graphite 22 Finestife Gasket Graphite Graphite 23 O-Ring HNBR HNBR 25' O-Ring HNBR HNBR 25' O-Ring HNBR HNBR 26' O-Ring HNBR HNBR 27' O-Ring HNBR HNBR 28' O-Ring HNBR HNBR 29 Stem Ver ASTM A276-304 ASTM A276-304 31 Trunnich Alignment Pin ASTM A276-304 ASTM A276-304 31 Trunnich Alignment Pin ASTM A276-304 ASTM A276-304 35 Stem Pipin ASTM A276-304 ASTM A276-304 36 Oran ASTM A276-304 ASTM A282-7904 37 Liting Plug ASTM A283-GRC ASTM A283-GRC	2	Closure	ASTM A105/QT	ASTM A350-LF2
5° Seat Insert PTFENYLONPEEK PTFENYLONPEEK 6 Seat Ring ASTM A105N/ENP ASTM A3504-F2/ENP 7 Stem ASTM A105N/ENP ASTM A3504-F2/ENP 8 Trunnion Support ASTM A1050/ENP ASTM A3504-F2 9 Gland Cap ASTM A1050/T ASTM A3504-F2 10 Top Flange ASTM A1050/T ASTM A3504-F2 11 Support Ring ASTM A182-F6a ASTM A182-F6a 12 Outdon Ring ASTM A182-F6a ASTM A182-F6a 13 Weather ASTM A182-F6a ASTM A182-F6a 14 Seast Spring Incomet X-750 Incomet X-750 15 Antil-static Device ASTM A182-F6a ASTM A182-F6a 16 Gland Pin AISI 1035 ASI 1035 17 Trunust Washer RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2<	3	Ball	ASTM A105N/ENP	ASTM A350-LF2/ENP
6 Seal Ring ASTM A10SNERP ASTM A350-LF2/ENP 7 Siem ASTM A10SNERP ASTM A350-LF2/ENP 8 Trunnon Support ASTM A10SNERP ASTM A350-LF2/ENP 9 Gland Cap ASTM A10S/CT ASTM A350-LF2 10 Top Flange ASTM A182-Fea ASTM A182-Fea 11 Support Ring ASTM A182-Fea ASTM A182-Fea 12 Quanto Ring ASTM A182-Fea ASTM A182-Fea 13 Washer ASTM A182-Fea ASTM A182-Fea 14 Seat Spring Inconel X-750 Inconel X-750 15 Ani-static Device ASTM A276-316 ASTM A276-316 16 Gland Pin AISI 1035 ASTM A3276-316 17 Thrust Washer RPTFE RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Fresate Casket	4	Seat Assembly (5)+(6)	Assembled By No. 5 & 6	Assembled By No. 5 & 6
7 Stem ASTM A16SNENP ASTM A350-LF2/ENP 8 Trunnion Support ASTM A216-WCB/ENP ASTM A350-LF2 9 Gland Cap ASTM A108/QT ASTM A350-LF2 10 Top Flange ASTM A108/QT ASTM A350-LF2 11 Support Ring ASTM A182-F6a ASTM A182-F6a 12 Quarto Ring ASTM A182-F6a ASTM A182-F6a 13 Washer ASTM A182-F6a ASTM A182-F6a 14 Seat Spring Inconel X-750 Inconel X-750 15 Anti-stalic Device ASTM A276-316 ASTM A276-316 16 Gland Pin AISI 1035 ASI 1035 17 Through Washer RPTFE RPTFE 18 Through Washer RPTFE RPTFE 19 Boating 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite Graphite	5*	Seat Insert	PTFE/NYLON/PEEK	PTFE/NYLON/PEEK
S	6	Seat Ring	ASTM A105N/ENP	ASTM A350-LF2/ENP
9 Gland Cap ASTM A105-QT ASTM A350-LF2 10 Top Flange ASTM A105-QT ASTM A350-LF2 11 Support Ring ASTM A182-F6a ASTM A182-F6a 12 Quarte Ring ASTM A182-F6a ASTM A182-F6a 13 Wather ASTM A182-F6a ASTM A182-F6a 14 Seat Spring Inconel X-750 Inconel X-750 15 Anti-static Device ASTM A276-316 ASTM A182-F6a 16 Gland Pin AISI 1035 AISI 1035 17 Thrust Washer RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite 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-LTM 29 Stem Key Carbon Steel ASTM A182-F304 31 Trunnion Alignment Pin ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Chenky Washer ASTM A182-F304 ASTM A182-F304 35 Vert Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283-GRC ASTM A283-GRC	7	Stem	ASTM A105N/ENP	ASTM A350-LF2/ENP
10 Top Flange	8	Trunnion Support	ASTM A216-WCB/ENP	ASTM A352-LCB/ENP
11 Suppor Ring	9	Gland Cap	ASTM A105/QT	ASTM A350-LF2
12 Quarto Ring ASTM A182-F6a ASTM A182-F6a 13 Washer ASTM A182-F6a ASTM A182-F6a 14 Seat Spring Inconel X-750 Inconel X-750 15 Anti-static Device ASTM A276-316 ASTM A276-316 16 Gland Pin AISI 1035 AISI 1035 17 Thrust Washer RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite Graphite 23	10	Top Flange	ASTM A105N	ASTM A350-LF2
13 Washer	11	Support Ring	ASTM A182-F6a	ASTM A182-F6a
14	12	Quarto Ring	ASTM A182-F6a	ASTM A182-F6a
15 Anti-static Device ASTM A276-316 ASTM A276-316 16 Gland Pin AISI 1035 AISI 1035 17 Thrust Washer RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite Graphite 23° O-Ring HNBR HNBR 4" O-Ring HNBR HNBR 24" O-Ring HNBR HNBR 26" O-Ring HNBR HNBR 26" O-Ring HNBR HNBR 27" O-Ring HNBR HNBR 28 Screw ASTM A193-B7 ASTM A320-L7M 29 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A287-6304	13	Washer	ASTM A182-F6a	ASTM A182-F6a
16 Gland Pin AISI 1035 AISI 1035 17 Thrust Washer RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite Graphite 23* O-Ring HNBR HNBR 24* 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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A182-F304 31 Trunnion Alignment Pin ASTM A182-F304 ASTM A182-F304	14	Seat Spring	Inconel X-750	Inconel X-750
17 Thrust Washer RPTFE RPTFE 18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite 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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A182-F304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304	15	Anti-static Device	ASTM A276-316	ASTM A276-316
18 Thrust Washer RPTFE RPTFE 19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite 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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-	16	Gland Pin	AISI 1035	AISI 1035
19 Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite 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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A182-F6a 31 Trunnion Alignment Pin ASTM A182-F304 ASTM A182-F304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain AS	17	Thrust Washer	RPTFE	RPTFE
20 Stem Bearing 316 + PTFE + MoS2 316 + PTFE + MoS2 21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite 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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain AST	18	Thrust Washer	RPTFE	RPTFE
21 Firesafe Gasket Graphite Graphite 22 Firesafe Gasket Graphite 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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283	19	Bearing	316 + PTFE + MoS2	316 + PTFE + MoS2
22 Firesafe Gasket Graphite 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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283-GRC ASTM A283-GRC	20	Stem Bearing	316 + PTFE + MoS2	316 + PTFE + MoS2
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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	21	Firesafe Gasket	Graphite	Graphite
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 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	22	Firesafe Gasket	Graphite	Graphite
25* O-Ring HNBR HNBR 26* O-Ring HNBR HNBR 27* O-Ring HNBR HNBR 28 Screw ASTM A193-B7 ASTM A320-L7M 29 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283-GRC ASTM A283-GRC	23*	O-Ring	HNBR	HNBR
26* O-Ring HNBR HNBR 27* O-Ring HNBR HNBR 28 Screw ASTM A193-B7 ASTM A320-L7M 29 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	24*	O-Ring	HNBR	HNBR
27* O-Ring HNBR HNBR 28 Screw ASTM A193-B7 ASTM A320-L7M 29 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	25*	O-Ring	HNBR	HNBR
28 Screw ASTM A193-B7 ASTM A320-L7M 29 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	26*	O-Ring	HNBR	HNBR
29 Stem Key Carbon Steel ASTM A182-F6a 30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	27*	O-Ring	HNBR	HNBR
30 Stem Pin ASTM A276-304 ASTM A276-304 31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	28	Screw	ASTM A193-B7	ASTM A320-L7M
31 Trunnion Alignment Pin ASTM A276-304 ASTM A276-304 32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	29	Stem Key	Carbon Steel	ASTM A182-F6a
32 Stem Injection ASTM A182-F304 ASTM A182-F304 33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	30	Stem Pin	ASTM A276-304	ASTM A276-304
33 Seat Injection ASTM A182-F304 ASTM A182-F304 34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	31	Trunnion Alignment Pin	ASTM A276-304	ASTM A276-304
34 Check Valve ASTM A182-F304 ASTM A182-F304 35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	32	Stem Injection	ASTM A182-F304	ASTM A182-F304
35 Vent Valve ASTM A182-F304 ASTM A182-F304 36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	33	Seat Injection	ASTM A182-F304	ASTM A182-F304
36 Drain ASTM A182-F304 ASTM A182-F304 37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	34	Check Valve	ASTM A182-F304	ASTM A182-F304
37 Lifting Plug ASTM A283.GRC ASTM A283.GRC	35	Vent Valve	ASTM A182-F304	ASTM A182-F304
	36	Drain	ASTM A182-F304	ASTM A182-F304
38 Support Leg ASTM A283.GRC ASTM A283.GRC	37	Lifting Plug	ASTM A283.GRC	ASTM A283.GRC
	38	Support Leg	ASTM A283.GRC	ASTM A283.GRC

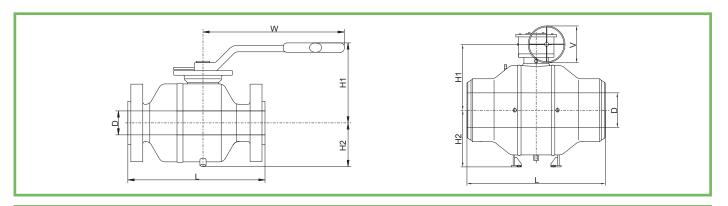
^{*}Please contact a Neway sales or technical team to confirm supplied materials.

Material Specifications



Index No.	Part	Index No.	Part
1	Body	20	Stem Bearing
2	Closure	21	Firesafe Gasket
3	Ball	22	Firesafe Gasket
4	Seat Assembly (5)+(6)	23	O-Ring
5	Seat Insert	24	O-Ring
6	Seat Ring	25	O-Ring
7	Stem	26	O-Ring
8	Trunnion Support	27	O-Ring
9	Gland Cap	28	Screw
10	Top Flange	29	Stem Key
11	Support Ring	30	Stem Pin
12	Quarto Ring	31	Trunnion Alignment Pin
13	Washer	32	Stem Injection
14	Seat Spring	33	Seat Injection
15	Anti-static Device	34	Check Valve
16	Gland Pin	35	Vent Valve
17	Thrust Washer	36	Drain
18	Thrust Washer	37	Lifting Plug
19	Bearing	38	Support Leg



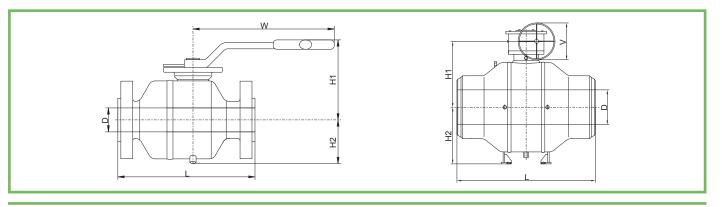


150 LB Dimensions

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Si	ze	ı)		L			Н	11	н	12	l v	v	,	,	Wei	aht
O.		·		R	F	В	W	•			_	·	•	`		****	giit
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.93	49	7.01	178	8.50	216	6.02	153	4.09	104	12.99	330			50.7	23
3	80	2.91	74	7.99	203	11.14	283	7.28	185	4.80	122	15.75	400			79.4	36
4	100	3.94	100	9.02	229	12.01	305	8.07	205	5.39	137	15.75	400			132.3	60
6	150	5.91	150	15.51	394	17.99	457	11.46	291	9.49	241			15.75	400	418.9	190
8	200	7.91	201	17.99	457	20.51	521	12.95	329	10.87	276			15.75	400	694.5	315
10	250	9.92	252	20.98	533	22.01	559	15.47	393	12.44	316			23.62	600	776.0	352
12	300	11.93	303	24.02	610	25.00	635	16.97	431	13.94	354			23.62	600	1468.3	666
14	350	13.15	334	27.01	686	30.00	762	21.22	539	15.04	382			23.62	600	1893.8	859
16	400	15.16	385	30.00	762	32.99	838	22.68	576	16.46	418			23.62	600	2381.0	1080
18	450	17.17	436	34.02	864	35.98	914	24.21	615	17.99	457			23.62	600	3174.7	1440
20	500	19.17	487	35.98	914	39.02	991	25.75	654	19.53	496			23.62	600	3747.9	1700
22	550	21.18	538	39.02	991	42.99	1092	29.49	749	20.87	530			23.62	600	4894.3	2220
24	600	23.19	589	42.01	1067	45.00	1143	31.65	804	22.72	577			27.56	700	6117.8	2775
26	700	24.92	633	45.00	1143	49.02	1245	33.07	840	23.74	603			27.56	700	7054.8	3200
28	700	26.93	684	49.02	1245	52.99	1346	29.88	759	25.35	644			29.92	760	8917.7	4045
30	750	28.94	735	50.98	1295	55.00	1397	31.38	797	26.85	682			29.92	760	10626.3	4820
32	800	30.67	779	54.02	1372	60.00	1524	32.68	830	28.11	714			29.92	760	12103.4	5490
34	850	32.68	830	57.99	1473	64.02	1626	30.83	783	29.57	751			29.92	760	14779.8	6704
36	900	34.41	874	60.00	1524	67.99	1727	36.42	925	30.91	785			29.92	760	16788.2	7615
40	1000	38.43	976	67.99	1727	70.08	1780	44.72	1136	34.17	868			29.92	760	24310.3	11027
42	1050	40.16	1020	72.01	1829	72.01	1829	46.02	1169	35.47	901			29.92	760	26698.0	12110
48	1200	45.91	1166	78.54	1995	78.54	1995	50.31	1278	39.72	1009			29.92	760	40476.8	18360
54	1350	51.65	1312					49.65	1261	42.56	1081			35.43	900	71870.6	32600
56	1400	53.54	1360	97.99	2489	97.99	2489	49.72	1263	45.08	1145			39.37	1000	80468.6	36500
60	1500	57.40	1458					51.93	1319	47.99	1219			39.37	1000	86200.6	39100

e:		,	,			L		Н	4		10	V	v	,	,	VA/o:	arla £
51	ze		,	R	F	B'	W			Н	2	V	V	'	<i>'</i>	Wei	gnt
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	6.02	153	4.09	104	12.99	330			52.9	24
3	80	2.91	74	11.14	283	11.14	283	7.28	185	4.80	122	15.75	400			116.8	53
4	100	3.94	100	12.01	305	12.01	305	8.11	206	5.59	142			11.81	300	216.1	98
6	150	5.91	150	17.99	457	17.99	457	11.46	291	9.49	241			15.75	400	465.2	211
8	200	7.91	201	20.51	521	20.51	521	13.23	336	10.87	276			19.69	500	754.0	342
10	250	9.92	252	22.01	559	22.01	559	15.47	393	12.44	316			23.62	600	824.5	374
12	300	11.93	303	25.00	635	25.00	635	16.97	431	13.94	354			23.62	600	1653.5	750
14	350	13.15	334	30.00	762	30.00	762	21.22	539	15.04	382			23.62	600	1984.2	900
16	400	15.16	385	32.99	838	32.99	838	22.68	576	16.46	418			23.62	600	2866.0	1300
18	450	17.17	436	35.98	914	35.98	914	25.51	648	17.99	457			23.62	600	3781.0	1715
20	500	19.17	487	39.02	991	39.02	991	27.72	704	19.53	496			27.56	700	4166.7	1890
22	550	21.18	538	42.99	1092	42.99	1092	30.16	766	21.18	538			27.56	700	5185.3	2352
24	600	23.19	589	45.00	1143	45.00	1143	27.28	693	22.72	577			29.92	760	6371.4	2890
26	700	24.92	633	49.02	1245	49.02	1245	28.70	729	24.17	614			29.92	760	8229.9	3733
28	700	26.93	684	52.99	1346	52.99	1346	32.01	813	25.79	655			29.92	760	10086.1	4575
30	750	28.94	735	55.00	1397	55.00	1397	33.50	851	27.28	693			29.92	760	12323.8	5590
32	800	30.67	779	60.00	1524	60.00	1524	349.76	8884	28.62	727			29.92	760	13756.8	6240
34	850	32.68	830	64.02	1626	64.02	1626	36.30	922	30.12	765			29.92	760	16248.1	7370
36	900	34.41	874	67.99	1727	67.99	1727	42.40	1077	31.65	804			29.92	760	18596.0	8435
40	1000	38.43	976	75.98	1930	75.98	1930	45.51	1156	34.80	884			29.92	760	24691.7	11200
42	1050	40.16	1020	82.01	2083	82.01	2083	49.25	1251	36.10	917			31.50	800	28770.3	13050
48	1200	45.91	1166	85.43	2170	85.43	2170	43.27	1099	40.43	1027			35.43	900	41887.8	19000
54	1350	51.65	1312					44.65	1134	42.76	1086			35.43	900	71870.6	32600
56	1400	53.54	1360	100.12	2543	100.12	2543	49.72	1263	46.30	1176			39.37	1000	80468.6	36500
60	1500	57.40	1458					56.97	1447	49.25	1251			39.37	1000	86200.7	39100

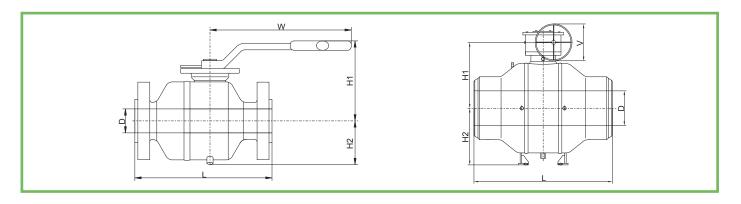
BW Series Ball Valve



400 LB Dimensions

6	ze)			L				Н	14		12	,	V	,	,	Wois	vh4
3	ze		,	R	F	B\	W	R'	TJ	П		П	12	•	v	`	'	Weig	Int
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.93	49	11.50	292	11.50	292	11.61	295	6.69	170	4.25	108	15.75	400			72.8	33
3	80	2.91	74	14.02	356	14.02	356	14.13	359	7.32	186	5.04	128			11.81	300	161.0	73
4	100	3.94	100	15.98	406	15.98	406	16.14	410	8.11	206	5.59	142			11.81	300	258.0	117
6	150	5.91	150	19.49	495	19.49	495	19.61	498	11.46	291	9.65	245			15.75	400	504.9	229
8	200	7.91	201	23.50	597	23.50	597	23.62	600	13.23	336	11.10	282			19.69	500	784.9	356
10	250	9.92	252	26.50	673	26.50	673	26.61	676	15.47	393	12.56	319			23.62	600	1053.9	478
12	300	11.93	303	30.00	762	30.00	762	30.12	765	20.20	513	14.21	361			23.62	600	1873.9	850
14	350	13.15	334	32.52	826	32.52	826	32.64	829	21.22	539	15.20	386			23.62	600	2006.2	910
16	400	15.16	385	35.51	902	35.51	902	35.63	905	23.98	609	16.61	422			23.62	600	2976.2	1350
18	450	17.17	436	38.50	978	38.50	978	38.62	981	25.51	648	18.15	461			23.62	600	3880.1	1760
20	500	19.17	487	41.50	1054	41.50	1054	41.73	1060	28.58	726	19.84	504			27.56	700	4916.3	2230
22	550	21.18	538	45.00	1143	45.00	1143	45.39	1153	26.61	676	21.57	548			29.92	760	6481.6	2940
24	600	23.19	589	48.50	1232	48.50	1232	48.86	1241	28.15	715	23.07	586			29.92	760	8730.3	3960
26	700	24.92	633	51.50	1308	51.50	1308	52.01	1321	30.51	775	24.57	624			29.92	760	9964.9	4520
28	700	26.93	684	55.00	1397	55.00	1397	55.51	1410	36.93	938	26.30	668			29.92	760	12015.2	5450
30	750	28.94	735	60.00	1524	60.00	1524	60.51	1537	38.27	972	27.83	707			29.92	760	13845.0	6280
32	800	30.67	779	65.00	1651	65.00	1651	65.63	1667	39.57	1005	29.17	741			29.92	760	16204.0	7350
34	850	32.68	830	70.00	1778	70.00	1778	70.63	1794	41.06	1043	30.67	779			29.92	760	18144.0	8230
36	900	34.41	874	74.02	1880	74.02	1880	74.61	1895	43.19	1097	32.05	814			29.92	760	22266.7	10100
40	1000	38.43	976	85.00	2159	85.00	2159			35.16	893	35.16	893			35.43	900	29938.7	13580
42	1050	40.16	1020	85.63	2175	85.63	2175			38.94	989	36.54	928			31.50	800	33973.2	15410
48	1200	45.91	1166	95.87	2435	95.87	2435			43.27	1099	40.98	1041			31.50	800	48281.2	21900
54	1350	51.65	1312							45.87	1165	44.69	1135			39.37	1000	71870.6	32600
56	1400	53.54	1360	106.69	2710	106.69	2710			49.06	1246	46.97	1193			39.37	1000	99485.7	45126
60	1500	57.40	1458							56.97	1447	49.96	1269			39.37	1000	105821.8	48000

e:	ze		,			L				н	4	Н	12	,	v	,	,	Maia	u la 4
SI	ze	L	,	R	F	B'	W	R [*]	ΓJ			l I	12	V	v	'	,	Weig	jnt
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.93	49	11.50	292	11.50	292	11.61	295	6.69	170	4.25	108	15.75	400			72.8	33
3	80	2.91	74	14.02	356	14.02	356	14.13	359	7.32	186	5.04	128			11.81	300	161.0	73
4	100	3.94	100	17.01	432	17.01	432	17.13	435	8.19	208	5.59	142			15.75	400	306.4	139
6	150	5.91	150	22.01	559	22.01	559	22.13	562	11.46	291	9.65	245			15.75	400	617.3	280
8	200	7.91	201	25.98	660	25.98	660	26.14	664	13.23	336	11.10	282			19.69	500	992.1	450
10	250	9.92	252	30.98	787	30.98	787	31.14	791	15.47	393	12.76	324			23.62	600	1322.8	600
12	300	11.93	303	32.99	838	32.99	838	33.11	841	20.98	533	14.41	366			23.62	600	2012.9	913
14	350	13.15	334	35.00	889	35.00	889	35.12	892	23.31	592	15.43	392			23.62	600	2050.3	930
16	400	15.16	385	39.02	991	39.02	991	39.13	994	24.76	629	16.93	430			23.62	600	3086.5	1400
18	450	17.17	436	42.99	1092	42.99	1092	43.11	1095	27.05	687	18.66	474			27.56	700	4078.6	1850
20	500	19.17	487	47.01	1194	47.01	1194	47.24	1200	24.21	615	20.24	514			29.92	760	5269.0	2390
22	550	21.18	538	50.98	1295	50.98	1295	51.38	1305	27.56	700	22.01	559			29.92	760	7429.6	3370
24	600	23.19	589	55.00	1397	55.00	1397	55.39	1407	29.09	739	23.58	599			29.92	760	9193.3	4170
26	700	24.92	633	57.01	1448	57.01	1448	57.52	1461	30.51	775	25.08	637			29.92	760	12114.4	5495
28	700	26.93	684	60.98	1549	60.98	1549	61.50	1562	37.72	958	26.89	683			29.92	760	13360.0	6060
30	750	28.94	735	65.00	1651	65.00	1651	65.51	1664	39.06	992	28.46	723			29.92	760	14749.0	6690
32	800	30.67	779	70.00	1778	70.00	1778	70.63	1794	40.35	1025	29.80	757			35.43	900	17251.2	7825
34	850	32.68	830	75.98	1930	75.98	1930	76.61	1946	41.85	1063	31.38	797			35.43	900	18651.1	8460
36	900	34.41	874	82.01	2083	82.01	2083	82.64	2099	46.81	1189	32.80	833			31.50	800	23479.2	10650
40	1000	38.43	976	85.00	2159	85.00	2159			35.16	893	36.14	918			35.43	900	32407.9	14700
42	1050	40.16	1020	85.63	2175	85.63	2175			38.94	989	37.56	954			31.50	800	36177.8	16410
48	1200	45.91	1166	95.87	2435	95.87	2435			43.27	1099	42.17	1071			31.50	800	53351.8	24200
54	1350	51.65	1312							48.66	1236	45.43	1154			39.37	1000	71870.6	32600
56	1400	53.54	1360	106.69	2710	106.69	2710			54.13	1375	48.31	1227			39.37	1000	99485.7	45126
60	1500	57.40	1458							56.97	1447	51.42	1306			39.37	1000	105821.8	48000



900 LB Dimensions

e:	ze	D				L	-			Н	14	н	12		v	,	,	Wei	abt
31	2 0		,	R	F	В	W	R'	TJ					,	•	`	v	vvei	gni
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.93	49	14.49	368	14.49	368	14.61	371	6.69	170	4.25	108	15.75	400			110.2	50
3	80	2.91	74	15.00	381	15.00	381	15.12	384	7.32	186	5.04	128			11.81	300	185.2	84
4	100	3.94	100	17.99	457	17.99	457	18.11	460	8.19	208	5.59	142			15.75	400	352.7	160
6	150	5.91	150	24.02	610	24.02	610	24.13	613	12.52	318	9.84	250			19.69	500	970.0	440
8	200	7.91	201	29.02	737	29.02	737	29.13	740	14.06	357	11.46	291			23.62	600	1146.4	520
10	250	9.92	252	32.99	838	32.99	838	33.11	841	19.17	487	13.23	336			23.62	600	1807.8	820
12	300	11.93	303	37.99	965	37.99	965	38.11	968	22.28	566	14.84	377			23.62	600	2480.2	1125
14	350	12.68	322	40.51	1029	40.51	1029	40.87	1038	24.61	625	16.10	409			27.56	700	3549.4	1610
16	400	14.69	373	44.49	1130	44.49	1130	44.88	1140	21.73	552	17.64	448			29.92	760	4431.3	2010
18	450	16.65	423	47.99	1219	47.99	1219	48.50	1232	23.82	605	19.45	494			29.92	760	6195.0	2810
20	500	18.54	471	52.01	1321	52.01	1321	52.52	1334	27.17	690	21.06	535			29.92	760	7628.0	3460
22	550	20.55	522							33.98	863	23.03	585			29.92	760	9722.4	4410
24	600	22.44	570	60.98	1549	60.98	1549	61.73	1568	35.55	903	24.69	627			29.92	760	12118.8	5497
26	700	24.29	617	65.00	1651	65.00	1651	65.87	1673	36.97	939	26.22	666			29.92	760	16417.8	7447
28	700	26.18	665	69.02	1753	69.02	1753	69.88	1775	38.70	983	27.83	707			29.92	760	22491.5	10202
30	750	28.03	712	74.02	1880	74.02	1880	74.88	1902	42.68	1084	29.53	750			31.50	800	25225.3	11442
32	800	29.92	760	80.00	2032	80.00	2032	80.87	2054	32.95	837	30.98	787			35.43	900	26680.3	12102
34	850	31.81	808	85.00	2159	85.00	2159	86.14	2188	33.07	840	32.64	829			35.43	900	38497.1	17462
36	900	33.66	855	90.00	2286	90.00	2286	91.14	2315	34.41	874	34.21	869			35.43	900	44431.9	20154

1500 LB Dimensions

0.						L	_						10		v	,	,	10/	I 1
51	ze	L)	R	F	В	W	R'	TJ	H1		H2		W		'	/	Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.93	49	14.49	368	14.49	368	14.61	371	6.69	170	4.25	108	15.75	400			110.2	50
3	80	2.91	74	18.50	470	18.50	470	18.62	473	7.87	200	5.04	128			15.75	400	253.5	115
4	100	3.94	100	21.50	546	21.50	546	21.61	549	8.19	208	5.79	147			15.75	400	427.7	194
6	150	5.67	144	27.76	705	27.76	705	27.99	711	12.64	321	10.31	262			23.62	600	1278.7	580
8	200	7.56	192	32.76	832	32.76	832	33.11	841	18.74	476	12.09	307			23.62	600	1657.9	752
10	250	9.41	239	39.02	991	39.02	991	39.37	1000	20.63	524	14.06	357			27.56	700	2634.5	1195
12	300	11.30	287	44.49	1130	44.49	1130	45.12	1146	19.37	492	15.94	405			29.92	760	4784.0	2170
14	350	12.40	315	49.49	1257	49.49	1257	50.24	1276	21.42	544	17.13	435			29.92	760	4960.4	2250
16	400	14.17	360	54.49	1384	54.49	1384	55.39	1407	23.86	606	18.94	481			29.92	760	6084.8	2760
18	450	15.98	406	60.51	1537	60.51	1537	61.38	1559	30.24	768	20.79	528			29.92	760	8038.0	3646
20	500	17.87	454	65.51	1664	65.51	1664	66.38	1686	32.24	819	22.72	577			29.92	760	9914.2	4497
22	550	19.69	500							35.16	893	24.69	627			35.43	900	12634.7	5731
24	600	21.50	546	76.50	1943	76.50	1943	77.64	1972	39.57	1005	26.54	674			31.50	800	15765.2	7151

e:	ze)			L	_			U	1	L	12	V	V	,	,	Woi	abt
31	2 0		,	RF		BW RTJ		ΓJ	H1		H2		W		V .		Weight		
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.65	42	17.76	451	17.76	451	17.87	454	6.69	170	5.79	147	15.75	400			198.4	90
3	80	2.44	62	22.76	578	22.76	578	22.99	584	8.27	210	5.83	148			23.62	600	440.9	200
4	100	3.43	87	26.50	673	26.50	673	26.89	683	8.46	215	5.79	147			23.62	600	848.8	385
6	150	5.16	131	35.98	914	35.98	914	36.50	927	18.03	458	11.02	280			23.62	600	1715.2	778
8	200	7.05	179	40.24	1022	40.24	1022	40.87	1038	21.18	538	12.99	330			27.56	700	2980.7	1352
10	250	8.78	223	50.00	1270	50.00	1270	50.87	1292	21.93	557	14.96	380			29.92	760	4711.3	2137
12	300	10.43	265	55.98	1422	55.98	1422	56.89	1445	22.56	573	16.93	430			29.92	760	7202.5	3267

Seat

Pro	pperties	PTFE	NYLON	PEEK	PCTFE	DEVLON V-API
Tempera	ture Range °F	-328~428	-58~248	-148~500	-328~302	-148~302
Tempera	ture Range °C	-200~220	-50~120	-100~260	-200~150	-100~150
Press	sure Rating	150~600	150~1500	150~2500	150~1500	150~1500
	Hardness (D)	58	72	88	85	78
Mechanical Property	Tensile Strength (Mpa)	14~34	55.2	134	35.9	79.9
	Tensile Elongation (Break,%)		250	2.2	150	5.4
	Specific Gravity	2.17	1.02	1.44	2.12	1.14
Physical Property	Water Absorption 24hrs (%)	0.00	1	0.06	0.00	0.1
	Water Absorption saturation	<0.01	1.6	0.2	<0.01	3
Service	e Application	Chemical & Low Temperature	High Pressure & Hydrocarbon	High Pressure & Temperature	Cryogenic	High Pressure & Hydrocarbon

Sealing

Туре	NBR	HNBR	VITON	FFKM	EPDM
Temperature Range °F	-22~230	-40~302	-4~392	-4~620	-58~302
Temperature Range °C	-30~110	-40~150	-20~200	-20~327	-50~150
Specific Gravity	1.31	1.34	1.85	2	0.87
Hardness (Shore A)	75	75	75	75	75

 $[\]ensuremath{^{\star}}\xspace \mbox{Other}$ elastomer materials available upon request.

PEEK

Temperature °C **PEEK NYLON PA 12** O-RING O-RING HSN O-RING PTFE

TRUNNION MOUNTED STYLE

The ratings above are for soft seal components. Please consult ASME B16.34 for Body and Closure Pressure/Temperature ratings.

NYLON

Temperature °F

PTFE

PRESSURE (PSI)

Operating Torque

in.	150LB (RPTFE)		300LB (RPTFE)		400LB (RPTFE)	600LB (RPTFE)		
in	N-m	Ft/Lbs	N-m	Ft/Lbs	N-m	Ft/Lbs	N-m	Ft/Lbs	
11/2	40	29.50	50	36.88	58	42.78	80	59.01	
2	50	36.88	60	44.26	75	55.32	120	88.51	
3	60	44.26	100	73.76	167	123.18	240	177.02	
4	129	95.15	210	154.90	331	244.15	460	339.30	

in	150LB (NYLON)		300LB (NYLON)		400LB (NYLON)	600LB (NYLON)		
	N-m	Ft/Lbs	N-m	Ft/Lbs	N-m	Ft/Lbs	N-m	Ft/Lbs	
6	380	280.29	580	427.81	660	486.82	900	663.84	
8	800	590.08	1400	1032.64	1613	1189.75	2150	1585.84	
10	1100	811.36	2200	1622.72	2493	1838.84	3050	2249.68	
12	1600	1180.16	2510	1851.38	3153	2325.65	4300	3171.68	
14	1800	1327.68	3200	2360.32	5280	3894.53	5723	4221.28	
16	3200	2360.32	4600	3392.96	6143	4531.08	8900	6564.64	
18	3400	2507.84	5510	4064.18	9900	7302.24	13500	9957.60	
20	4800	3540.48	7600	5605.76	11000	8113.60	16000	11801.60	
22	5400	3983.04	9400	6933.44	12300	9072.48	17500	12908.00	
24	7000	5163.20	12300	9072.48	14800	10916.48	19500	14383.20	
26	8000	5900.80	15000	11064.00	20000	14752.00	27600	20357.76	
28	9000	6638.40	18000	13276.80	22000	16227.20	30000	22128.00	
30	12950	9551.92	20000	14752.00	26600	19620.16	34000	25078.40	
32	15000	11064.00	23000	16964.80	32000	23603.20	39000	28766.40	
34	18000	13276.80	28000	20652.80	39000	28766.40	50000	36880.00	
36	21000	15489.60	33000	24340.80	44000	32454.40	55000	40568.00	

in	900LB (NYLON)	1500LB	(NYLON)	2500LB	(PEEK)
""	N-m	Ft/Lbs	N∙m	Ft/Lbs	N-m	Ft/Lbs
1½	140	103.26	240	177.02	290	213.90
2	200	147.52	320	236.03	590	435.18
3	427	314.96	500	368.80	990	730.22
4	750	553.20	1000	737.60	1960	1445.70
6	1200	885.12	2900	2139.04	5500	4056.80
8	3800	2802.88	5500	4056.80	8600	6343.36
10	5000	3688.00	8400	6195.84	16000	11801.60
12	9000	6638.40	12000	8851.20	30000	22128.00
14	11000	8113.60	15000	11064.00		
16	16000	11801.60	22000	16227.20		
18	24000	17702.40	30000	22128.00		
20	27000	19915.20	37000	27291.20		
22	30000	22128.00	46000	33929.60		
24	35000	25816.00	53000	39092.80		
26	38000	28028.80	65000	47944.00		
28	46000	33929.60				
30	60000	44256.00				
32	70000	51632.00				
34	76000	56057.60				
36	80000	59008.00				

- Note:
 1. Torque is calculated based on normal temperature, with RPTFE seats for 150LB-600LB valves and NYLON seat for 150LB~1500LB valves.
 2. Torque values shown in these tables are to be used as a guide for actuator selection. A safety factor of 1.3~1.5 is recommended for actuator sizing.
 3. Torque may change according to different fluids and trim materials.

Flow Coefficient (C_v Value) Specification

Size(inch)	150LB	300LB	600LB	900LB	1500LB
1/2	25	25	20	16	16
3/4	56	56	48	34	34
1	95	95	64	55	55
1½	308	308	308	165	165
2	500	430	370	320	320
3	1360	1100	1020	920	820
4	2500	2000	1850	1760	1600
6	5300	5250	4400	4300	4150
8	10750	10100	8450	8475	8010
10	17500	16820	14250	14160	13220
12	26750	25950	22550	21200	18800
14	31850	30900	28500	26700	24180
16	44000	42600	38150	36600	33150
18	58000	55870	51150	49000	45703
20	75500	72500	68500	64600	60750
22	91770	86850	80150		
24	113400	109340	98860		

Note:

1. All sizes are full port

2. Pressure ratings are to API 6D.

Method of Calculating Flow The Flow Coefficient (C_v Value) is the flow rate of water (gallons/minute) through a fully opened valve, with a pressure drop of 1 psi across the valve. To find the flow of liquid through the valve from the C_v Value,use the following formulas.

Liquid Flow: $\begin{aligned} &Q_{L} = C_{_{V}} \, (P/G)^{1/2} \\ &QL = Flow \ rate \ of \ liquid \ (gal./min.) \\ &P = &Differential \ pressure \ across \ the \ valve \\ &G = &Specific \ gravity \ of \ liquid \ (for \ water, \ G=1) \end{aligned}$

Gas Flow:

Gas Flow: $Q_{_{g}} = 61C_{_{V}} (P_{_{2}}P/g)^{1/2}$ (For non-critical flow, P/P<1.0) $Q_{_{g}} = Flow \text{ rate of gas (CFH at STP)}$ $P_{_{g}} = \text{ outlet pressure (psia)}$ g = Specific gravity of gas (for air, g=1.0)

Seller will replace without charge or refund the purchase price of products which prove to be defective in material or workmanship; provided that the product is properly installed and is used in the service for which the Seller recommends it and that the 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 any repairs 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 the Buyer's exclusive remedy and seller's exclusive liability.





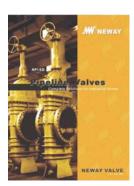




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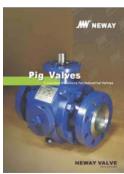
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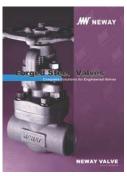
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