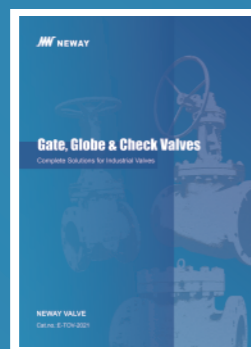
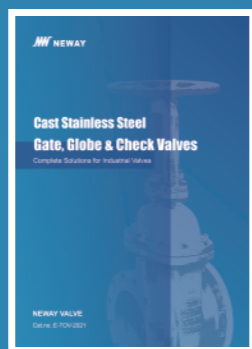




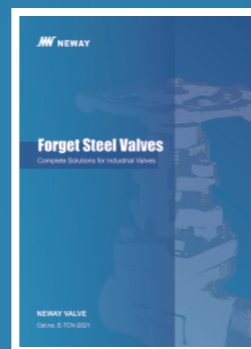
Cat.no.:E-PS



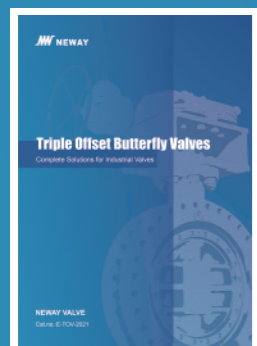
Cat.no.:E-GGC



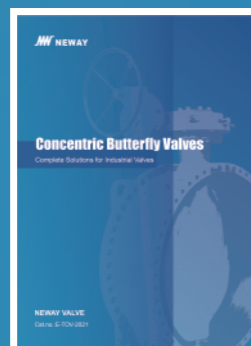
Cat.no.:E-CSS



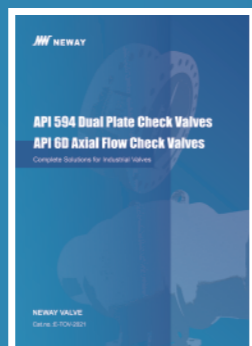
Cat.no.:E-FSV



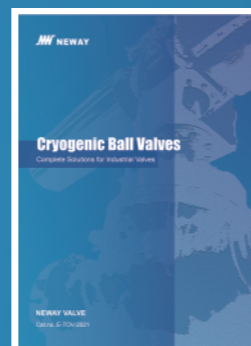
Cat.no.:TOBV



Cat.no.:E-CBV



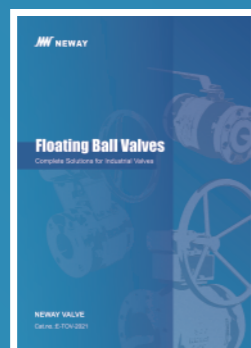
Cat.no.:E-CV



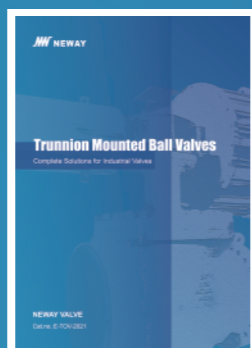
Cat.no.:E-CBV



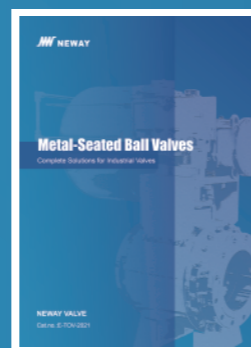
Cat.no.:E-FWBV



Cat.no.:E-FBV



Cat.no.:E-TMBV



Cat.no.:E-MSBV

Cryogenic Triple Offset Butterfly Valves

Complete Solutions for Industrial Valves

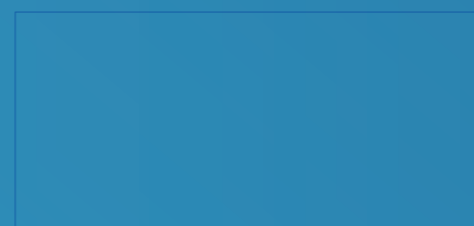


Table of Contents

Introduction

1 Quality Commitment

2 How To Order

Cryogenic Triple Offset Butterfly valve

3 Advanced Manufacturing & Quality Control

4~6 Dimensions & Weights



Complete Solutions for Industrial Valves

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

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

Facilities & Service

Neway has developed a sophisticated multi-plant management system operating one valve assembly plant, one API6A valve plant, three foundries, and one R&D center. Our largest assembly plant was expanded in 2013, and it now covers 35,000 square meters.

Advanced software (ANSYS, FE-Safe, CF-Design, Siemens PLM and NX) is applied here at Neway for the Research & Development of products. We use SAP to control the traceability and status of all products during the manufacturing process. In order to ensure the safety, eco-friendliness, and reliability of our products, we use the most advanced fire-safe, cryogenic, high pressure, and fugitive emission test equipment.

As part of Neway's global strategy, to provide better service to our customers, we have established our overseas subsidiaries in USA, Netherlands, Italy, Singapore, and Dubai along with over 80 agents and distributors worldwide.

Quality Assurance

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

Quality Commitment



NORSOK



ISO9001



CE/PED



Fire Safe Test Certificate



TA Luft



ABS



API 6A



AD2000

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

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



Neway figure numbers are designed to cover essential features. When ordering, please show figure number to avoid misunderstanding of your requirements. However a detailed description must accompany with any special orders.

① Valve Size

8=8"	(DN200)	24=24"	(DN600)
10=10"	(DN250)	28=28"	(DN700)
12=12"	(DN300)	30=30"	(DN750)
14=14"	(DN350)	36=36"	(DN900)
16=16"	(DN400)	42=42"	(DN1050)
18=18"	(DN450)	48=48"	(DN1200)
20=20"	(DN500)		

② Triple Offset Butterfly Valve

Symbol	Type
TCL	Cryogenic Triple Offset Butterfly Valve

④ End Connection

Symbol	Type
B	Butt-Welding End

⑦ Trim Code

First digit		Second digit		Third digit		Fourth digit	
Stem		Seat		Metal Seal Ring		Non-metal Seal Ring	
Code	Material	Code	Material	Code	Material	Code	Material
4	MONEL K500	9	STL.21	9	F51	8	GRAPHITE
5	17-4PH			Q	XM-19		
9	F51			S	INCONEL 718		
A	XM-19			T	17-4PH		
N	INCONEL 718						
P	616HT						
L	431						

Notes: other materials upon request.

③ ANSI Class

Code	1	3	6
Class	150	300	600

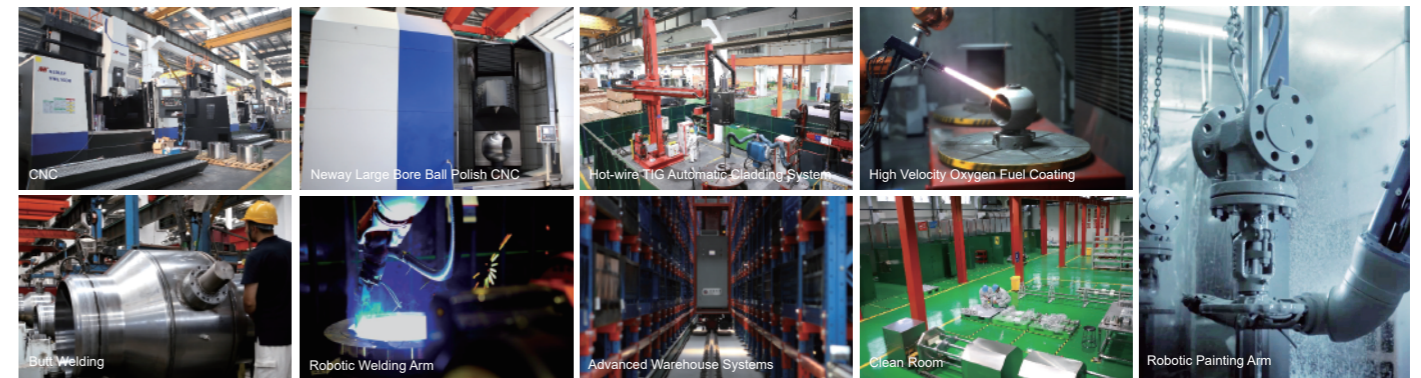
⑤ Operation

G	Gearbox
M	Electric actuator
P	Pneumatic actuator
BS	Bare Stem

⑥ Body Material

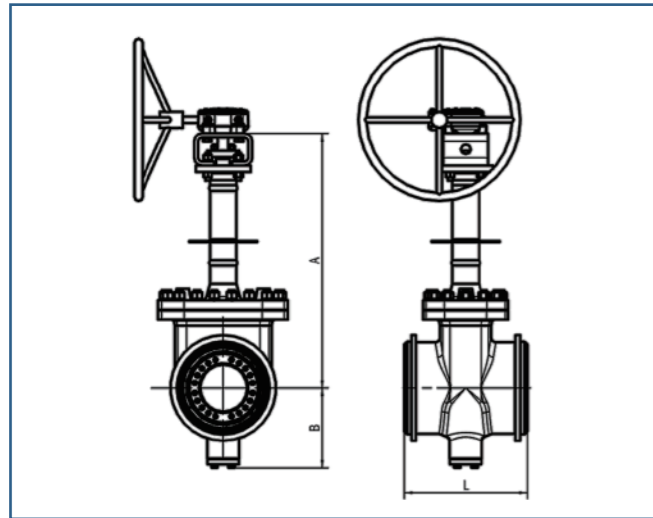
Material	ASTM Ref.
S00	A351 Grade CF8
S01	A351 Grade CF8M
S02	A351 Grade CF3
S03	A351 Grade CF3M

The latest computer technology has been extensively applied in NEWAY manufacturing, which includes a large number of numeric control machines (machining center, CNC horizontal and vertical lathe, and CNC drilling machine) and ERP management system. Additionally, the data through all factories has been connected and shared. These facilitate resource integration, boost productivity, evidently enhancing machining quality and tightening process control.



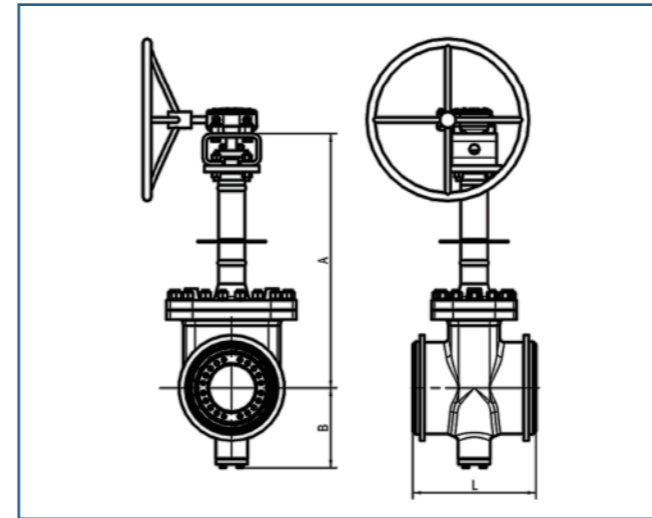
NEWAY developed comprehensive and advanced inspection and test facilities to control the quality from rough castings or forgings to final products, which enable us to perform ultrasonic testing, radiographic test, liquid penetrant test, magnetic-particle test, spectrum analysis, Material Positive Identification (MPI), impact test, tensile test, hardness test, fire safe test, cryogenic test, vacuum test, low fugitive emission test, high pressure gas test and hydrostatic test.





Class 150(inch)

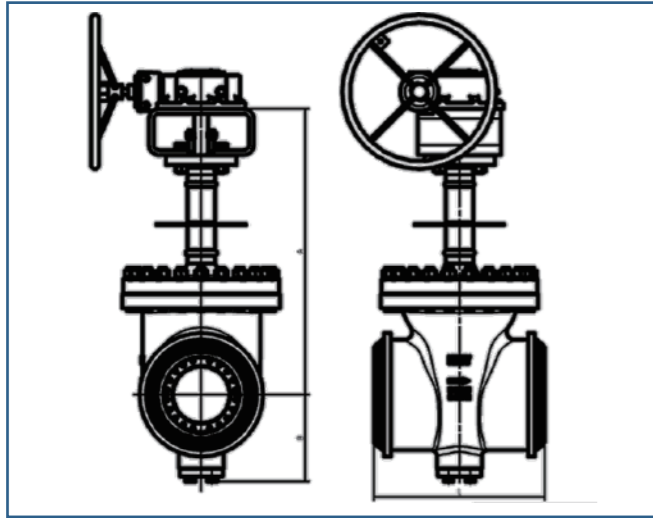
Size	L	A	B	Approx. Weight(lb)
8"	13.5	28.27	8.5	273.3
10"	15	30.98	9.72	368.07
12"	16	32.95	10.47	573.04
14"	17	37.91	11.46	749.36
16"	18	39.96	12.01	837.52
18"	19	43.11	13.46	1168.12
20"	20	44.25	14.25	1366.48
24"	22	45.83	16.22	1807.28
28"	26	53.23	19.61	2710.92
30"	26	55.12	21.26	3085.6
32"	28	57.09	23.23	3879.04
36"	30	65.04	25.98	5113.28
40"	30	67.09	27.95	6612
42"	31	69.29	29.92	9256.8
48"	34	75.2	35.83	12342.4



Class 150(mm)

Size	L	A	B	Approx. Weight(kg)
8"	343	718	216	124
10"	381	787	247	167
12"	407	837	266	260
14"	432	963	291	340
16"	457	1015	305	380
18"	483	1095	342	530
20"	508	1124	362	620
24"	559	1164	412	820
28"	661	1352	498	1230
30"	661	1400	540	1400
32"	711	1450	590	1760
36"	762	1652	660	2320
40"	762	1704	710	3000
42"	787	1760	760	4200
48"	864	1910	910	5600

Dimensions & Weights



Class 300(inch)

Size	L	A	B	Approx. Weight(lb)
8"	13	29.06	7.72	493.7
10"	18	34.8	9.02	683.24
12"	22	36.46	11.1	786.83
14"	32	39.84	11.89	1190.16
16"	33	42.48	12.68	1542.8
18"	33	45.91	14.17	1983.6
24"	34	50.94	17.72	3879.04

Class 300(mm)

Size	L	A	B	Approx. Weight(lb)
8"	325	738	196	224
10"	457	884	229	310
12"	553	926	282	357
14"	813	1012	302	540
16"	838	1079	322	700
18"	838	1166	360	900
24"	850	1294	450	1760

Product Warranty

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