

Complete Solutions for Industrial Valves



About Neway

Neway is a global valve manufacturer committed to the research/development, production, and sale of high-quality industrial valves. Our product scope includes Gate, Globe, Check, Ball, Butterfly, Nuclear, Control, Subsea, Safety valves and Well-Head equipment. Our valves are widely supplied to industries including Oil & Gas, Refining, Chemical/Petrochemical, Pipeline, LNG, On/Offshore Exploration & Production, Power, and Renewable/Green Energy applications. Neway's owned and vertically integrated R & D center, forging/casting plants, and production/assembly bases allow us to control all business processes to ensure a stable supply chain, rigorous quality control standards, and competitive pricing/delivery options. Approximately 3,500 employees all over the world strive to provide Neway's superior products and excellent service to our customers



Neway Factory

Neway adopts the group multi-factory management model and has one major valve assembly plant in China with 230,000m² coverage , one API 6A valve plant, three casting foundries, one forging factory and new plant for Butterfly valve. Neway also has a joint venture factory in Saudi Arabia.



R&D

In order to meet the application requirements of valves in different fields, Neway applies advanced software (ANSYS, FE-SAFE, MathCAD, Autodesk Simulation CFD, Foxpro, NX, etc.) for product research and development, and has established professional material laboratory and special engineering test, which can simulate various extreme conditions and lay a solid foundation for the research and development of high-end valves.



Sales Network

Neway implements global marketing and sales strategy, has established sales companies and offices subordinate to China HQ in China and overseas, such as America, Netherlands, Italy, Singapore UAE and Nigeria, and established strategic partnership with more than 80 overseas agents and distributors around the world.



Quality Guarantee

Neway is committed to providing zero defects valves to our customers and controls quality from order input, production process, final test to on-site service. Neway products obtained all major industrial qualifications including ISO9001, API 6A, API 6D, UKCA, CE/PED, CU-TR, ASME N & NPT, TA-Luft, ABS, Norsok and fire safe, FE certificate, etc. by our continuous efforts. Moreover, Neway has been approved as a qualified supplier by many world famous energy users. With its high-quality products and services, Neway has also been awarded the title of strategic supplier or "Best partner" by many customers.

Certificates of Neway Liquid Hydrogen Valve

(including but not limited to the following certificates)

- Check Valve TSG Certificate
- Angle Globe Valve TSG Certificate
- Straight-through Globe Valve TSG Certificate
- Vehicle-mounted Emergency Shut-off Valve TSG Certificate
- Storage Tank Emergency Shut-off Valve TSG Certificate



Project References

Client	Project Name
Air Liquide Global E&C Solutions FR	Woodside H2OK LH2
Air Products Canada Ltd.	Edmonton 3 H2 Plant
Air Products Nederland BV	Rotterdam NH3 Terminal
Air Chemical Products (Shanghai) Co., LTD	PXX Shenzhen TNXH370
Air Chemical Products (Zhejiang) Co., LTD	Debang
Air Chemical Products (Zhejiang) Co., LTD	Jupiter
Linde Asia Pacific Engineering Co., LTD	Tanjung SDC ASU
Air Liquide (Hangzhou) Co., LTD	ALFE TSMC F20
ALFE TSMC F20	ALSG UMC 12i



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LinkedIn



Website



Wechat



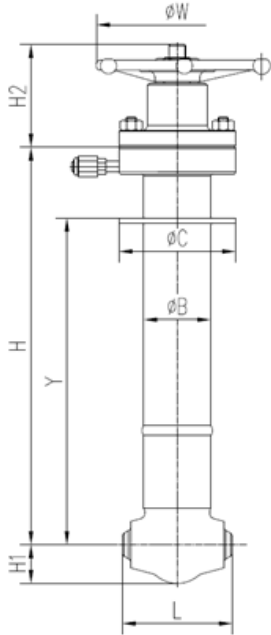
Liquid Hydrogen Valves

Engineered for the most demanding cryogenic service, our Liquid Hydrogen (LH2) Valves provide secure and reliable flow control in critical applications ranging from petroleum energy to hydrogen liquefaction plants and hydrogen refueling stations. Constructed from low-temperature austenitic stainless steels, they are subjected to rigorous cryogenic cycling tests to guarantee performance integrity. Designs include bellows-sealed versions for absolute external leakage prevention and a variety of types such as ball valves, gate valves, and check valves, all optimized to minimize heat ingress and maintain the ultra-cold state of LH2 throughout the system.

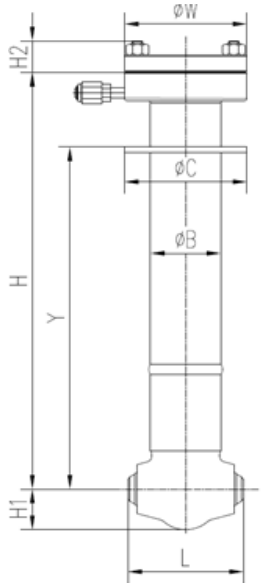




Class150 / Class300 Manual Vacuum Jacketed Globe Valve Structural Dimensions							
Size (mm) Dimensions	3/8" (DN10)	1/2" (DN15)	3/4" (DN20)	1" (DN25)	1-1/2" (DN40)	2" (DN50)	
L	102	102	102	102	229	229	
B	62	62	62	62	100	100	
C	108	108	108	108	160	160	
Y	303	303	303	303	373	373	
H	369	369	369	369	463	463	
H1	36	36	36	36	71	71	
H2	96~116	96~116	96~116	96~116	143~175	143~175	
W	150	150	150	150	180	180	



Class150 / Class300 Manual Vacuum Jacketed Check Valve Structural Dimensions							
Size (mm) Dimensions	3/8" (DN10)	1/2" (DN15)	3/4" (DN20)	1" (DN25)	1-1/2" (DN40)	2" (DN50)	
L	102	102	102	102	229	229	
B	62	62	62	62	100	100	
C	108	108	108	108	160	160	
Y	284	284	284	284	373	373	
H	350	350	350	350	450	450	
H1	36	36	36	36	75	75	
H2	28	28	28	28	43	43	
W	108	108	108	108	160	160	



Technical Parameters & Materials

Design Standard	ASME B16.34,BS 6364,GB/T 45027,T/CGMA 0407
Inspection Test	API 598,BS6364, GB/T 45027,T/CGMA 0405
Operating Temperature	-253°C - +120°C
Size Range	1/2"-6"
Class Range	Class 150,300
Body Material	ASTMA182 F316/F316L,ASTMA351 CF8M
Bellow Material	ASTMA240 316L
Disc Material	ASTMA182 F316/F316L
Stem Material	ASTMA182 F316/F316L
End Connection	BW
Operation Mode	Manual, Pneumatic

Liquid Hydrogen System

Hydrogen Production Plant



Hydrogen Storage Tank



Hydrogen Refueling Station



Technical Features

Universal Characteristics

- Overview**

The liquid hydrogen stop valve is mainly used to control ultra-low temperature media such as liquid hydrogen that are close to absolute zero. The valve adopts dual sealing of bellows and packing, Ansys analysis of the packing position temperature, and thermal convection temperature loss analysis and other advanced technologies. It features "good sealing performance, low heat leakage, and high reliability".
- Technical Features**
 - The Body features an extended and elevated structure, a bellows sealing structure, a bellows cycle life of no less than 10,000 times, and zero leakage at the packing position.
 - It can be repaired online.
 - The vacuum jacket structure facilitates cold insulation and prevents cold loss.
 - It meets the requirements of -253°C and prevents hydrogen embrittlement and hydrogen-accelerated fatigue when in contact with hydrogen, maintaining its mechanical properties and stability. Commonly used materials: CF8M / CF3M / F316 / F316L.
 - Anti-static design, with corresponding qualification certificates.
 - Before valve assembly, the components undergo deep cryogenic treatment, degreasing and oil removal treatment, and assembly is carried out in a Dust-free workshop.

