Overview of NEWAY Facilities



management system operating one valve service to our customers, we have established our assembly plant, one API6A valve plant, three foundries, and one R&D center. Our newest assembly plant was expanded in 2013, and it now covers 35,000 square meters.

NEWAY has developed a sophisticated multi-plant As part of Neway's global strategy, to provide better overseas subsidiaries in North America. Brazil. Netherlands, Italy, Singapore, and Dubai along with over 80 agents and distributors worldwide.

Introduction of Foundries







As one of pressure-contained equipments in process control pipeline, valve castings' quality is most important for valve life, personnel safety and environment safety, especially for the high temperature and high pressure fields. So castings are always certified firstly by the strict customer before valve manufacturer are pre-qualified and approved as a qualify supplier.

Comparing with most of other competitors, Neway owns two self foundries: one is mainly to produce big size sand castings by organic ester water glass sand cast process, and other is mainly to produce small size investment castings by loss wax cast process. So we can provide 100% castings with different weight from 1kg up to 11000kg by ourselves, monthly produce capacity s up to 1200 ton. And each foundry is equipped with all kind of quality inspection facilities, such as: spectrum instrument, nondestructive test machinery, mechanical capability testing equipment and so on. So we can monitor the whole process of valve manufacture to ensure the valve quality, delivery, and competitive price, and to enable Neway remain a creditable

Technical Innovation

NEWAY technical research center utilizes the most advanced computer technology to improve the existing products and develop the new lines, this includes a highly educated and trained engineering team and a comprehensive internal 📑 computer network which links the entire operations of desigh, manufacturing and administration.

NEWAY design philosophy is to develop a safe and cost-efficient valve, we introduced the latest Ansys, Fe-safe, CF-design and NX software for all our new product design research which include the advanced finite element analysis to virtually verify the new design prior to production, this has resulted in dramatically reducing the new product design time and ensure a safe and cost efficien final product.

NEWAY technical personnel are always ready to offer on line or on site technical training and support for all of its distributors, agents and en

Advanced Manufacturing





The latest computer technology are also widely

includes a large number of numeric control

machines (Machining center, CNC horizontal

ERP management system which significantly

improve our machining quality and process

control. NEWAY also employes a number of

conventional lathe with capacity up to machine

philosophy is to ensure stable quality and just in

gate valve. NEWAY manufacturing

blied in NEWAY for valve manufacturing, this

d vertical lathe, CNC drilling machine) and



















Nuclear Valve Product Presentation

NEWAY developed an extensive and advanced inspection and test facility to control the quality from rough castings or forgings to final products. These facilities enable us to do Radio graphic test, Ultra-sonic test, Dye-penetrate test, Magnetic test, Positive Material Identifier (PMI), Impact test, Tensile test, Hardness test, Fire safe test, Cryogenic test, Vacuum test, Low fugitive emission test, High pressure gas test, High temperature test and Hydro-static test.

Nuclear Valve Quality Control











> Split Wedge Gate Valve > Parallel Slide Gate Valve Design criteria: RCC-M, ASME BPVC-III, ASME B16.34



Structural feature:

- > Body to bonnet connection can select bolted bonnet and pressure seal bonnet.
- Optional seal welding for screwed bonnet connection, sealing is more reliable and can realize the disassembling maintenance. > Fully guided disc, hardfaced, wear-resistant for longer usage life.
- > Stem with the form of packing seal, strict requirement to medium leakage, optional choose bellow and packing double sealing form, including metal bellow products are imported from Germany.
- > To parallel slide gate valve, mechanical limit opening and closing position, precisely control the opening and closing position of



> To the risk of abnormal pressure bonnet, according to actual working condition and the function requirements of valve, matching various kind of

Design criteria: RCC-M, ASME BPVC-Ⅲ, ASME B16.34

- To the condition of high temperature and pressure condition valve, stem can choose disc spring elastic compensation institution.
- > Optional cobalt free hard facing.
- > Mechanical position indicator, mechanical locking devices, the middle of packing is leaking device, the bonnet is designed with purging and testing
- > Optional packing dynamic preload device, prolong maintenance cycle, use multilayer disc spring group to dynamic preload.

Design code: RCC-M, ASME BPVC-Ⅲ, ASME B16.34

NA TO		
	Security level	Nuclear safety level 1, level 2, level 3, the non-nuclear grade
	Nominal diameter	≤50mm
	Operating temperature	-196~370°C
	Design pressure	≤25MPa
Charles and a	Seismic category	I
	Type of connection	Socket Welding , Butt welding , Flange
STREET, SQUARE, ST. ST.	Material of the valve body	Carbon steel, Alloy steel, Stainless steel

> Swing Check Valve

The range of produc	SIS.
Security level	Nuclear safety level 1, level 2, level 3, the non-nuclear grade
Nominal diameter	≤50mm
Operating temperature	-196~370°C
Design pressure	≤25MPa
Seismic category	I

Low pressure differential to open and low pressure to seal; the piston sealing performance can be tested in line. > Optional Cobalt Free Hard Facing.

> Body to bonnet connection: Bolted Bonnet, Optional

Threaded connection with standby lip seal welding is more

reliable and can realize the disassembling maintenance.

> Fully Bonnet-guided and Control the length of guide to

prevent unsmooth stagnation of opening and closing the

> Hard faced disc piston, Wear-resistant for longer usage

screwed with seal welds or Pressured seal bonnet.

Structural feature Design code: RCC-M, ASME BPVC- III, ASME B16.34

> Body to bonnet connection: Bolted Bonnet and pressured > Design of Built-in pin decreases the leakage path in body

- Structural type and increases readability.
- > Structure of anti-rotary disc realizes the seal and

> Both the body and seat design are suitable for medium

service medium and minimize pressure loss.

Closed steadily and No water hammer.

Optional Cobalt Free Hard Facing.

flowing. The design features ensure flow efficiency of the

> Because of the features of the spring load, low mass disc

> Manual switch and check online for seals are elected extra

> Short in length, Small size and Light in weight.

> Valve bodies are a one-piece and short cylinder design

and shorter travel, the disc can be closed as quickly as

anti-rotary of disc.

Structural feature:

- Optional Cobalt Free Hard Facing.
- > Switch position indicator, quick-opening and slowly-closing are elected extra by demand.

Manual ball valve

The range of products:

Nominal diameter

Nominal pressure

Seismic category

Security level

Security level Nominal diameter ≤1400mm



Double offset butterfly valve Design criteria: RCC-M, ASME BPVC-III, ASME B16.34



Security level Nominal diameter ≤3000mm

Design pressure ≤ Class 600 Seismic category I Type of connection Wafer, Flange ,Lug,Butt-Welding Type of actuate Manual ,pneumatic ,electric Material of body Carbon steel, Alloy steel, Stainless steel

The range of products: Nuclear safety level 1, level 2, level 3,



	Se
	Noi
	Op
	Des
618	Sei
100	Тур
	Tyr

Security level	the non-nuclear grade
Nominal diameter	≤2000mm
Operating temperature	-46°C~450°C
Design pressure	≤ Class 2500
Seismic category	I
Type of connection	Wafer, Flange ,Lug,Butt-
Type of actuate	Manual ,pneumatic ,elec
Material of body	Carbon steel, Alloy steel

Seneral sealing ring, easy maintenance.

and non nation grade	
≤2000mm	> Lower torque, ea
-46°C~450°C	> One-piece shaft
≤ Class 2500	> Prevent the share
I	> Wear-resistant b

Structural feature:

nstruction: Users choose metal+graphite or pure

Structural feature:

> Axial Flow Check Valve Design code: RCC-M, ASME BPVC-III, ASME B16.34 The range of products

eismic category

The range of products:

Operating temperature -196~370°C

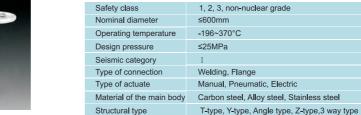
Type of connection Butt welding, Flange

Seismic category I

≤25MPa

Security level

Design pressure



he range of products:

iclear Globe Valve

T-Type Globe Valve > Y -Type Globe Valve

- > Body to bonnet connection can select bolted bonnet, optional screwed bonnet with seal welding or pressure seal bonnet.
- Optional seal welding for screwed bonnet connection, sealing is more reliable and can realize the disassembling maintenance.
- Connection disc and stem by disc cover, with non-rotating disc, restrict the disc to rotate, while allowing tiny movement to seal in the

Fully guided disc, hard-faced, wear-resistant for longer usage life.

Stem with the form of packing seal, strict requirement to medium leakage, optional choose bellow and packing double sealing form, including metal bellow products are imported from Germany. > Optional cobalt free hard facing.

> Mechanical position indicator, mechanical locking devices, the middle of

- Optional packing dynamic preload device, prolong maintenance cycle, use multilaver disc spring group to dynamic preload.
- Y type flow, low flow resistance, high flow performance.
- Valve opening is small, compact structure, small size, light weight,
- ▶ The space of installation, operation and maintenance space is small, suit for requiring higher dimensional space.

Dual Plate Check Valve Design code: RCC-M, ASME BPVC-III, ASME B16.34



minal diameter

Design pressure ≤25MPa Seismic category I ype of connection Wafer ,Flange

Nuclear safety level 1, level 2, level 3 the non-nuclear grade

with no holes through body wall, there is no need for external pins or plugs and no leakage toward outside. > Two high torsion springs ensure valve closure as quick as possible, and reduces water hammer.

-196~370°C

Type of connection Socket Welding, Butt welding, Flange

Material of the valve body Carbon steel, Alloy steel, Stainless steel

perating temperature -196~370°C

> Grinding by special purpose machine, valve is sealed with

plane and has high interchangeabilit > Optional cobalt free hard facing.

Structural feature:







> Electric actuator ball valve



> Pneumatic actuator ball valve

Structural feature:

> Top-Entry, body/bonnet connection is bolted with male/female and metal/metal contact easy maintenance quick disassembly (patent protected) remove the ball by

> The ball and stem is integral one-piece designed for ND≤50, seal is more reliable.

> Disc spring or wave spring is designed for seat preloaded, simple structure, Reduce

> Structure is simple and reliable, little installation space, small flowing resistance.

- the hidden trouble of the metal parts into pipeline. > Soft seal or metal seal structure according to the working condition.
- > Cobalt hard facing or cobalt free hard facing for metal seat ball valve.

luclear Butterfly Valve

Design criteria: RCC-M, ASME BPVC-III, ASME B16.34

Nuclear safety level 1, level 2, level 3,

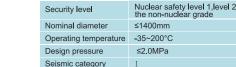
Class 150~Class 2500

Type of connection Socket Welding, Butt welding, Flange

Material of the valve Carbon steel, Alloy steel, Stainless steel

Type of actuate Manual ,pneumatic ,electric

Concentric butterfly valve Design criteria: RCC-M, ASME BPVC-III, ASME B16.34 The range of products:



> Simple structure, reliable sealing, long service life, easy maintenance.

Structural feature

> Frameless type seat, lower operating torque.

> Stem triple offset seal to resist outside leakage. > No pin to resist internal leakage.

> Lower torque and Low friction.

Anti-blowout shaft.

Structural feature:

Nuclear safety level 1.level 2.level 3. Operating temperature -29°C~200°C

> Replaceable seat. > Long service life, easy maintenance. > Zero leakage in both directions pressure.

> Triple offset butterfly valve Design criteria: RCC-M, ASME BPVC-Ⅲ, ASME B16.34



	the non-nuclear grade	
ninal diameter	≤2000mm	> Lov
rating temperature	-46°C~450°C	> One
ign pressure	≤ Class 2500	> Pre
mic category	I	> We
e of connection	Wafer, Flange ,Lug,Butt-Welding	> Inst
e of actuate	Manual ,pneumatic ,electric	met
erial of body	Carbon steel Alloy steel Stainless steel	

> Zero leakage in both directions and total pressure.

easy operation. ft, high strength and safety. haft blowout protection function.

nt bearing for longer service life.

netal sealing ring structure according to actual

working condition.



Complete Solutions for Industrial Valves