

NEWCO Valves

Complete line of cast, forged and stainless steel gate, globe and check valves
in a full range of sizes and classes

TECHNOLOGY



Cast Steel Gate, Globe and Check Valves

NEWCO® cast steel gate, globe and check valves exceed all industry design requirements. These valves range from 2" to 54" (50 mm to 1350 mm) in pressure classes 150 to 1500.



Gates

Sizes: 2" to 54" (50 mm to 1350 mm)
Classes: 150 to 1500
Design: API 600
Ends: RF, RTJ, BW
Style: Flex Wedge
Materials: WCB, LCC, Alloy Grades

NEWCO cast steel gate valves are ideal for bi-directional flow and tight shutoff. Due to the flow characteristics of the wedge-to-seat design, gate valves should be operated in the full-open or full-closed position. Concentrated flow across the seats of a partially opened gate valve risks possible seat damage, therefore throttling is not recommended. Gate valves are utilized in applications where minimum pressure drop is desired.

Globes

Sizes: 2" to 24" (50 mm to 600 mm)
Classes: 150 to 1500
Design: API 623
Ends: RF, RTJ, BW
Style: Plug Type Disc
Materials: WCB, LCC, Alloy Grades

NEWCO cast steel globe valves are ideal for unidirectional, controlled flow. The flow characteristics of a globe valve are repeatable, consistent and easy to control at various open positions, which makes the design ideal for general flow regulation.



Checks

Sizes: 2" to 36" (50 mm to 900 mm)
Classes: 150 to 1500
Design: API 594
Ends: RF, RTJ, BW
Style: Swing and Tilting Disc
Materials: WCB, LCC, Alloy Grade

NEWCO cast steel check valves yield minimal restriction to low-velocity environments and are ideal for preventing backflow in unidirectional flow applications in horizontal or upward (vertical) flow. The tilting disc design offers closing that reduces the possibility of slamming.



Gates

Sizes: 1/4" to 2" (5 mm to 50 mm)

Classes: 150 to 4500

Design: API 602

Ends: FLGD, THRD, SW, BW

Materials: A105, LF2, Alloy Grades

NEWCO forged steel bolted and welded bonnet gate valves are ideal for bi-directional flow and tight shutoff. Due to the flow characteristics of the wedge-to-seat design, gate valves should be operated in the full-open or full-closed position. Gate valves are utilized in applications where minimum pressure drop is desired.



Globes

Sizes: 1/4" to 2" (5 mm to 50 mm)

Classes: 150 to 4500

Design: API 602

Ends: FLGD, THRD, SW, BW

Materials: A105, LF2, Alloy Grades

NEWCO forged steel bolted and welded bonnet globe valves are ideal for unidirectional, controlled flow. The flow characteristics of a globe valve are repeatable, consistent and easy to control at various open positions, which makes the design ideal for general flow regulation.

The Y-pattern globe valves offer the same flow capabilities as standard globes. The smooth Y-pattern allows for less turbulence and lower pressure drops.



Checks

Sizes: 1/4" to 2" (5 mm to 50 mm)

Classes: 150 to 4500

Design: API 602

Ends: FLGD, THRD, SW, BW

Materials: A105, LF2, Alloy Grades

NEWCO forged steel bolted and welded bonnet check valves yield minimal restrictions to low-velocity environments and are ideal for preventing backflow in unidirectional flow applications in horizontal or upward (vertical) flow. Piston and ball check valves with a four-spring allow for both horizontal and vertical installation.



Forged Steel

NEWCO forged steel valves are ideal for standard and critical industry applications. The welded bonnet joint eliminates the body/bonnet flanges, reducing weight and simplifying the application of exterior insulation.

The welded bonnet ensures containment of the high-pressure applications experienced within the industry. This, in concert with the forged steel body, provides the highest integrity sealing available.



Pressure Seals

NEWCO pressure seal valves are ideal for standard and critical power industry applications. The pressure seal bonnet joint eliminates the body/bonnet flanges, reducing weight and simplifying the application of exterior insulation. Contrary to bolted bonnet valves, internal pressure applied to a pressure seal valve forces the sealing elements into tighter contact – the higher the internal pressure, the tighter the seal.

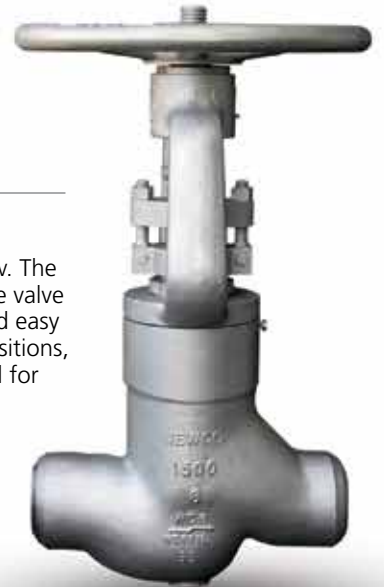
NEWCO pressure seal valves comply with the design and test requirements of ASME B16.34, MSS SP-144 and the installation dimensions of ANSI B16.10.



Gates

Sizes: 2" to 24" (50 mm to 600 mm)
Classes: 600 to 2500
Design: ASME B16.34
Ends: RF, RTJ, BW
Materials: All Grades

NEWCO cast steel pressure seal gate valves are ideal for bi-directional flow and tight shutoff. Due to the flow characteristics of the wedge-to-seat design, gate valves should be operated in the full-open or full-closed position. Gate valves are utilized in applications where minimum pressure drop is desired.



Globes

Sizes: 2" to 24"
(50 mm to 600 mm)
Classes: 600 to 2500
Design: ASME B16.34
Ends: RF, RTJ, BW
Materials: All Grades

NEWCO cast steel pressure seal globe valves are ideal for unidirectional, controlled flow. The flow characteristics of a globe valve are repeatable, consistent and easy to control at various open positions, which makes the design ideal for general flow regulation.



Y-Pattern Globes

Sizes: 2" to 24" (50 mm to 600 mm)
Classes: 600 to 2500
Design: ASME B16.34
Ends: RF, RTJ, BW
Materials: All Grades

NEWCO cast steel pressure seal Y-pattern globe valves offer the same flow capabilities as standard globes. The smooth Y-pattern allows for less turbulence and lower pressure drops.



Tilt Disc Checks

Sizes: 2" to 14" (50 mm to 350 mm)
Classes: 600 to 2500
Design: ASME B16.34
Ends: RF, RTJ, BW
Materials: All Grades

NEWCO cast steel pressure seal tilt disc check valves yield minimal restriction to low-velocity environments and are ideal for preventing backflow in unidirectional flow applications in horizontal flow. The tilting disc design offers closing that reduces slamming.

Stainless Steel

NEWCO OIC® brand offers a complete line of gate, globe and check valves in sizes 1/4" to 24" (6 mm to 600 mm), ASME Classes 150 to 1500, in various grades of stainless steel. The OIC line of stainless steel valves is constructed to meet and exceed industry standards.

Gates

Sizes: 1/4" to 24" (5 mm to 600 mm)
Classes: 150 to 1500
Design: ASME B16.34, API 603, API 602
Ends: RF, RTJ, THRD, SW, BW
Materials: 304/L, 316/L, 317/L, 321, 347/H, A20
Features: Stainless steel body and bonnet, rising stem, OS&Y, graphite or TFE seals, integral seat rings, stem backseat design

Also available in cryogenic designs.



Globes

Sizes: 1/4" to 12" (5 mm to 300 mm)
Classes: 150 through 1500
Design: ASME B16.34, API 603 (as applicable), API 602
Ends: RF, RTJ, THRD, SW, BW
Materials: 304/L, 316/L, 317/L, 321, 347/H, A20
Features: OS&Y, bolted bonnet, plug type disc, graphite or TFE seals, rising stem, integral seat, stainless steel bolting

Also available in cryogenic designs.



Checks

Sizes: 1/2" to 12" (15 mm to 300 mm)
Classes: 150 to 1500
Design: ASME B16.34, API 603 (as applicable), API 602
Ends: RF, RTJ, THRD, SW, BW
Materials: 304/L, 316/L, 317/L, 321, 347/H, A20
Features: Swing type, graphite or TFE seals, bolted cover, integral seat, stainless steel bolting



Specifications

Meets/exceeds industry standard requirements. Fire-safe design.

Basic Design	ASME B16.34/API 608
Flange Surface Finish	125 to 250 AARH Serrated
Face-to-Face Dimension	ASME B16.10/API 608
Flanged End Dimension	ASME B16.5
Inspected and Tested to	API 598 & 607
Certifications	ISO 9001/Canadian CRN/PED

Floating Ball Valves

Benefits at a Glance

- ASME classes 150, 300 and 600
- Standard NACE MR-01-03 compliant
- WCB, LCC and CF8M body material
- ISO actuator mounting pad
- Full port and reduced port
- 1/2" to 12" (15 mm to 300 mm) size range
- Fire-tested to API 607 Rev. 4
- Adjustable stem packing
- Blowout-proof stem
- Locking device
- Antistatic ground
- Stainless steel trim
- Two-piece body design
- RPTFE seats



NEWCO valves are designed and manufactured to meet the current editions of industry standards and have been production tested to written procedures that include the requirements of API 598, ASME/ANSI B16.34 and MSS-SP-61. GreenSeal™ packing system for service applications to guarantee the customer's valve is packed for low fugitive emissions. Testing shows that cast steel gate valves with a standard body/bonnet joint gasket revealed no leakage into the atmosphere.

NEWCO valves, properly installed and adjusted, will provide a real fugitive emission seal at both the body/bonnet and stem packing. Routine stem seal maintenance will maintain performance for many cycles. This results in a reduction in the cost of ownership.

Our GreenSeal technology is good for the environment and good for our customer's businesses.

GreenSeal Low Emissions Packing Technology



Product Range

Product range includes, but is not limited to, the following. The product range is subject to change without notice.

Type	Sizes*	Classes	Ends	Available Materials
Cast Carbon	2" to 54" (50 mm to 1350 mm)	150 to 1500	RF, RTJ, BW	WCB, LCC
Cast Alloy	2" to 54" (50 mm to 1350 mm)	150 to 1500	RF, RTJ, BW	C5, WC6, WC9, C12, C12A
Forged Carbon	1/4" to 2" (5 mm to 50 mm)	150 to 4500	FLGD, THRD, SW, BW	A105N, LF2
Forged Alloy	1/4" to 2" (5 mm to 50 mm)	150 to 4500	FLGD, THRD, SW, BW	F5, F9, F11, F22, F91, F51
Pressure Seal	2" to 24" (50 mm to 600 mm)	600 to 2500	RF, RTJ, BW	Cast – all grades
Floating Ball	1/2" to 12" (15 mm to 300 mm)	150 to 600	RF, RTJ	WCB, LCC, CF8M
Stainless	1/4" to 24" (5 mm to 600 mm)	150 to 1500	RF, RTJ, THRD, SW, BW	304/L, 316/L, 317/L, 321, 347/H, A20