

Manufacturer of

**Newco®**



[www.NewmansValve.com](http://www.NewmansValve.com)

## Product Line Brochure

Gates • Globes • Checks • Stop Checks • Angles • Tilting Discs • QuadroSphere™ Balls • Triple Offset Butterflies





Newmans manufactures a complete line of Newco and OIC valve products in a full range of sizes, classes, and materials. Our newest additions are the QuadroSphere® specialty trunnion mounted ball valves and the Trinity Series Triple-Offset Butterfly Valves.

Newmans has been supplying quality valves to the world's hydrocarbon, pulp & paper, marine, power, chemical, mining, and general industries for more than 60 years. Newmans manufactures and inventories gate, globe, check, and specialty valves in sizes from 1/2" thru 120" in diameter and in pressure classes from 150 thru 4500 lbs. in most alloys.

Newmans' world-wide production facilities are ISO certified and are compliant to the industry standards of API, ASTM and ASME.



## NEWCO

**Cast Steel  
Gate, Globe, and Check Valves**

**Bonnet:** Bolted  
**Sizes:** 2" thru 60"  
**Class:** 150 thru 2500  
**Design:** API 600 and ASME B16.34

## NEWCO

**Cast Steel  
Gate, Globe, and Check Valves**

**Bonnet:** Pressure Seal  
**Sizes:** 2" thru 36"  
**Class:** 600 thru 4500  
**Design:** ASME B16.34

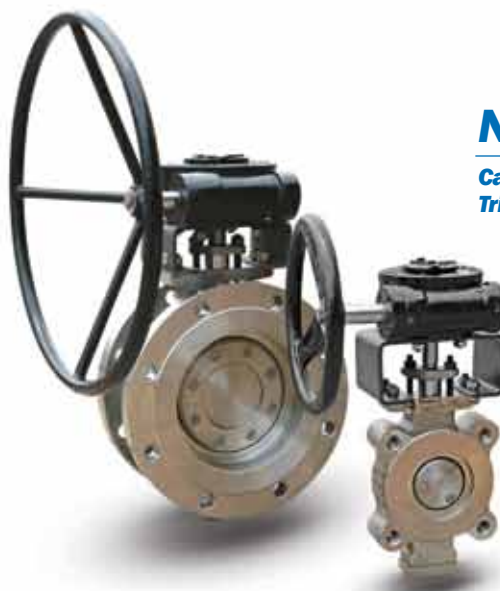


## NEWCO

**Cast WCB, 316, Monel, Hastelloy, and NiAlBr  
Triple Offset Butterfly Valves**

**Sizes:** 3" thru 120"  
**Class:** 150, 300, 600  
**Design:** API STD 609  
**Features:** Sealed 316SS Bearings, NACE Compliant, ISO 15848 Emission Tested, and Fire Safe Tested per API 607

(Details on page 6)





## NEWCO

**Forged Steel  
Gate, Globe, Check, and Y-Pattern Valves**

**Bonnet:** Bolted and Welded

**Sizes:** 1/4" thru 2"

**Class:** 150 thru 4500

**Design:** API 602



## OIC

**Cast and Forged  
300 Series Stainless and Alloy 20  
Gate, Globe, and Check Valves**

**Bonnet:** Bolted

**Sizes:** 1/2" thru 24"

**Class:** 150 thru 1500

**Design:** API 602 & API 603/ASME B16.34

## QuadroSphere™

**Sizes:** 2" thru 24"

**Class:** 150 thru 2500

**Design:** API 6D

**Ends:** RF, BW, RTJ

**Materials:** A105, LF2,  
F316, F51

Newco's self-cleaning,  
flow-around "workhorse".  
The **QuadroSphere™**  
trunnion valve is ideal for  
heavy debris applications.  
(Details on pages 9 & 10)

**QuadroSphere™**



**Newmans®**

All Newmans products are manufactured, inspected, and tested in accordance to the most rigid quality standards as well as specific customer requirements.

So, whether it's cast steel for general service or exotic alloys for corrosive applications or metal seated ball valves for severe services, Newmans is the reliable source for all your valve needs.

- Engineered solutions
- Complete alloy coverage
- Ready-to-ship inventories
- Competitive factory lead times
- Sizes: 1/2" thru 120"
- Classes: 150 thru 4500

Please visit us online at [www.NewmansValve.com](http://www.NewmansValve.com) to see our complete line of Newco & OIC valves.





## Cast Steel Gate, Globe, & Check Valves

NEWCO Cast Steel Gate, Globe and Check Valves exceed all industry performance requirements. Ranging from 1/2" thru 60" in pressure classes 150 thru 2500.



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### Gates

**Sizes:** 2" thru 60"

**Class:** 150 thru 2500

**Design:** API 600

**Ends:** RF, RTJ, BW

**Style:** Flex Wedge, Parallel Slide

**Materials:** WCB, LCC, Alloy Grades

NEWCO Cast Steel Gate valves are ideal for bidirectional, low-friction flow and tight shut-off. Due to the flow characteristics of the wedge-to-seat design, Gate valves should be operated in the full-open or full-close 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 necessary.

### Globes

**Sizes:** 2" thru 24"

**Class:** 150 thru 2500

**Design:** API 600

**Ends:** RF, RTJ, BW

**Style:** Precision Guide

**Materials:** WCB, LCC, Alloy Grades

NEWCO Cast Steel Globe valves are ideal for unidirectional, controlled flow. The flow characteristics of a Globe valve is repeatable, consistent, and easy to control at any open position, which makes the design ideal for regulating flow.



### Checks

**Sizes:** 2" thru 36"

**Class:** 150 thru 2500

**Design:** API 600

**Ends:** RF, RTJ, BW

**Style:** Swing & Tilting Disc

**Materials:** WCB, LCC, Alloy Grades

NEWCO Cast Steel Check valves yield minimal restriction to low velocity environments and are ideal for preventing pipeline back flow in unidirectional flow applications in horizontal or upward (vertical) flow. The tilted disc design offers quicker closing minimizing the possibility of slamming.





## Gates

**Sizes:** 1/2" thru 2"

**Class:** 150 - 4500

**Design:** API 602

**Ends:** FLGD, THRD, SW

**Materials:** A105, LF2, Alloy Grades

NEWCO Forged Steel Bolted and Welded Bonnet Gate valves are ideal for bidirectional, low-friction flow and tight shut-off. Due to the flow characteristics of the wedge-to-seat design, Gate valves should be operated in the full-open or full-close 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 necessary.



## Globes

**Sizes:** 1/2" thru 2"

**Class:** 800 thru 4500

**Design:** API 602

**Ends:** FLGD, THRD, SW

**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 is repeatable, consistent, and easy to control at any open position, which makes the design ideal for regulating flow.

The Y-pattern Globe valves offer the same flow controlling capabilities as standard globes. The smooth Y-pattern allows for less turbulence, and consequently less damaging flow and lower pressure drops.



## Checks

**Sizes:** 1/2" thru 2"

**Class:** 800 thru 4500

**Design:** API 602

**Ends:** FLGD, THRD, SW

**Materials:** A105, LF2, Alloy Grades

NEWCO Forged Steel Bolted and Welded Bonnet Check valves yield minimal restriction to low velocity environments and are ideal for preventing pipeline back flow in unidirectional flow applications in horizontal or upward (vertical) flow.



# Newco®

## Forged Steel

The NEWCO Forged Steel Valves are ideal for standard and critical Power 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 Power industry. This, in concert with the forged steel body, provides the highest integrity sealing available.





## Pressure Seals

The 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 ANSI B16.34 and the installation dimensions of ANSI B16.10.



## Gates

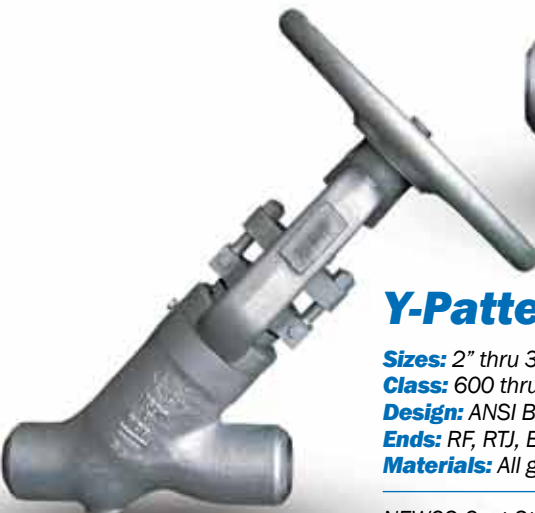
**Sizes:** 2" thru 36"  
**Class:** 600 thru 4500  
**Design:** ANSI B16.34  
**Ends:** RF, RTJ, BW  
**Materials:** All grades

NEWCO Cast Steel Pressure Seal Gate valves are ideal for bidirectional, low-friction flow and tight shut-off. Due to the flow characteristics of the wedge-to-seat design, Gate valves should be operated in the full-open or full-close 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 necessary.

## Globes

**Sizes:** 2" thru 36"  
**Class:** 600 thru 4500  
**Design:** ANSI 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 is repeatable, consistent, and easy to control at any open position, which makes the design ideal for regulating flow.



## Y-Pattern Globes

**Sizes:** 2" thru 36"  
**Class:** 600 thru 4500  
**Design:** ANSI B16.34  
**Ends:** RF, RTJ, BW  
**Materials:** All grades

NEWCO Cast Steel Pressure Seal Y-pattern Globe valves offer the same flow controlling capabilities as standard globes. The smooth Y-pattern allows for less turbulence, and consequently less damaging flow and lower pressure drops.

## Tilt Disc Checks

**Sizes:** 2" thru 36"  
**Class:** 600 thru 4500  
**Design:** ANSI 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 pipeline back flow in unidirectional flow applications in horizontal flow. The tilted disc design offers quicker closing minimizing slamming.





# Trinity Triple Offset Butterfly Valves

**Sizes: 3" thru 120"**  
**DN: 80 thru 3000**  
**ASME 150, 300, & 600**  
**PN16, 25, 40, & 100**

by **Newco**

## Benefits at a Glance

- Triple Offset Design for Bi-directional Bubble Tight Shutoff
- Self Centering Disc
- Sealed Bearing Design
- Stellite Body Seat Standard
- Blowout Proof Stem Option
- Firesafe Tested to API 607
- Available in a Wide Range of Materials and Configurations
  - WCB, 316 Stainless Steel, Monel, Hastelloy, & Nickel - Aluminum - Bronze

## Time Tested Performance from the Quality Valve Supplier

Newmans Triple Offset Valves are designed, manufactured and supplied from world class facilities serving the industrial processing, transmission, water treatment and power industries across the globe. The new Triple Offset Valves offer dependable, economical service for all applications that require proven performance and quality.

## Superior Features come Together for Superior Service

Featuring the premium Triple Offset design, the Newmans TOV is a zero leakage valve in both directions utilizing a Stellite/316 SS metal seating surface carefully matched to provide superior sealing. The Triple Offset design uses three separate geometries of disc/stem orientation and rotation to accomplish bubble tight sealing. The proven conical seating feature allows Newmans Triple Offset Valve to operate with minimal torque, increased temperatures and longer life cycle. The disc and body seat engage with no rubbing of the seating components.

## Our Commitment is to Your Success

The Newmans Triple Offset Valve meets or exceeds industry standards and is available in a wide range of pressures, materials and body configurations. Once again Newmans Valve is offering superior value and performance to our global customers. Contact your Newmans representative for more information on the Triple Offset Valve Product line."



**Newmans Triple Offset Valves feature standard Stellite body seats, robust laminated disc seats, and unique graphite stem bearing seals for exceptional service life.**



# Trinity

## Specifications

Meets/exceeds CSA requirements. Fire Safe Design

BASIC DESIGN	ASME B16.34/API 607
Lug Dimension	API STD 609
Dbl. Flanged (Short Ptn.)	API STD 609/ISO 5752
Dbl. Flanged (Long Ptn.)	API STD 609/ANSI 16.10
Inspected & Tested to	API STD 598/API 607





## Stainless Steel

OIC manufactures a complete line of Gate, Globe, and Check valves in sizes 1/4" thru 24", ANSI Class 150 thru 4500, in all grades of stainless steel. OIC Stainless Steel valves are constructed in accordance with the specifications of American Standards Organizations with the primary objective of guaranteeing uniformity in production. These standards are those universally used in the Oil, Petrochemical and Chemical industries. Due to their comprehensive nature, they give a clear definition of the product. Standardized production in accordance with these specifications embrace the standards and codes for recommended materials, dimensional requirements, and temperature pressure ratings.



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## Gates

**Sizes:** 1/4" thru 24"

**Class:** 150 thru 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 & Bonnet, Rising Stem, Outside Screw & Yoke, 1" to 2-1/2" Solid Wedge, 3" & up Flexible Wedge, Graphite or TFE Seals. Integral Seat Rings, Stem Backseat Design

**Also available in Cryogenic designs!**

## Globes

**Sizes:** 1/4" thru 12"

**Class:** 150 thru 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:** 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" thru 12"

**Class:** 150 thru 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:** Swing Type, Graphite or TFE Seals, Bolted Cover, Integral Seat, Stainless Steel Bolting

**Also available in Cryogenic designs!**



# Trunnions

by Newco®

## Benefits at a Glance

- 2" thru 24" full or standard bore
- ASME Classes 150 thru 2500
- Body vent or flush and drain
- Hardened surface options
- API 6D face-to-face
- Flanged or weld-end
- Blow-out proof stem
- NACE compliant trims
- Anti-static protection
- Independent seat rings
- Graphite gaskets & seals
- Firesafe design
- Inconel seat springs
- Bi-directional seating
- Double block & bleed option
- A105, LF2, or 316 SS body
- Heavy-duty forged 3-piece body
- ISO 5211 actuator mounting pad
- 100% tested in accordance to API 6D
- Secondary stem & seat seal system
- Wide variety of seating options
- Corrosion resistant bearings
- Easy to service



- **Trunnion Design**
- **2" thru 24"**
- **ASME 150 thru 2500**

## Heavy-duty Seat Rings

- Variety of inserts with metal back-up
- Spring loaded/pressure energized
- Metal-to-metal options
- Hardened surface options
- Field replaceable

**Newco®**

## Specifications

Meets/exceeds CSA requirements. Fire Safe Design

BASIC DESIGN	ASME B16.34/API 6D
Face-to-Face Dimension	API 6D
Flanged End Dimension	ASME B16.5
Inspected & Tested to	API 6D & 607
Certifications	ISO 9001/Canadian CRN

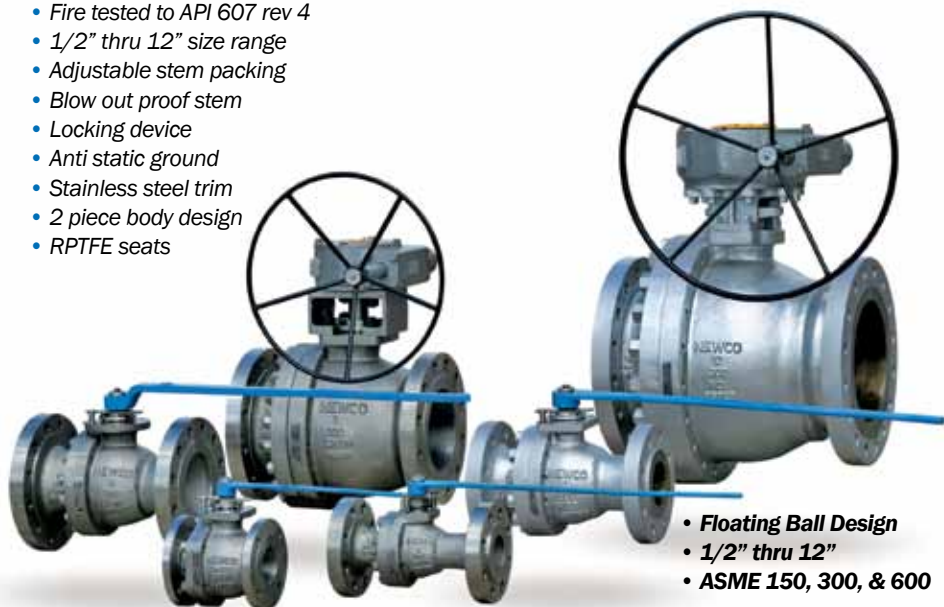


# Floating Balls

by Newco®

## Benefits at a Glance

- ANSI 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
- Fire tested to API 607 rev 4
- 1/2" thru 12" size range
- Adjustable stem packing
- Blow out proof stem
- Locking device
- Anti static ground
- Stainless steel trim
- 2 piece body design
- RPTFE seats



- **Floating Ball Design**
- **1/2" thru 12"**
- **ASME 150, 300, & 600**

## Specifications

Meets/exceeds CSA requirements. Fire Safe Design

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

## Pattern Descriptions

CLASS & PORT	B16.34/API 608 Long Pattern	B16.34/API 608 Short Pattern
150# Full	✓	
300# Full	✓	
600# Full	✓	
150# Red.		✓
300# Red.		✓
600# Red.	✓	

# Newco®

## QuadroSphere™

- Trunnion Design
- 2" thru 24"
- ASME 150 thru 2500



# QuadroSphere™

Simply better technology!

by Newco®



### Protected Seating Surfaces

The **QuadroSphere™** trunnion ball valve protects its seats by minimizing fluid media velocity contacting upstream seating surfaces during cycles. As the **QuadroSphere™** closes, fluid media applies pressure to the upstream seat ring urging it against the ball's upstream sealing lip for leakproof performance. Features on the ball remove debris from the seats ensuring a clean, tight shut-off each time it cycles.

### Lower Torque Requirements

The geometric shape of the ball greatly reduces ball-to-seat surface contact. This features creates less "drag" during cycles, requiring less torque to operate the **QuadroSphere™**.

### Self-cleaning Features (See Flow Pattern Comparison)

Ordinary ball valves allow fluid media and debris to be trapped in the inner-body cavity. This can result in the accumulation of foreign debris around the ball that can result in damage to seating surfaces. As the **QuadroSphere™** cycles, its unique geometric features allow foreign debris to be flushed from the inner-body cavity to prevent the accumulation of solid matter around the backside of the seat rings and bearings. Then, open or closed, once the ball engages the seats, line fluid cannot enter the inner-body cavity.

### Seventy Percent Less Wear

Unlike ordinary ball valves, the **QuadroSphere™** ball experiences a fraction of the drag across seating surfaces during cycles, reducing wear up to 70 percent and extending performance life.

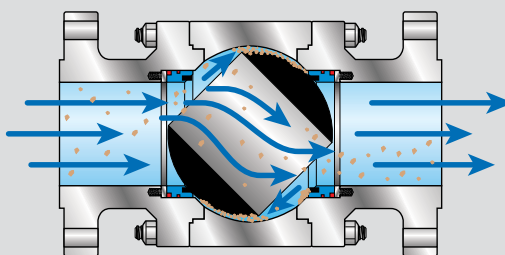
As the **QuadroSphere™** cycles, flow is split into five channels (over, under, around the sides, and through the ball port), preventing localized, high velocity impingement upon the downstream seat as with ordinary ball valves.

### Benefits at a Glance

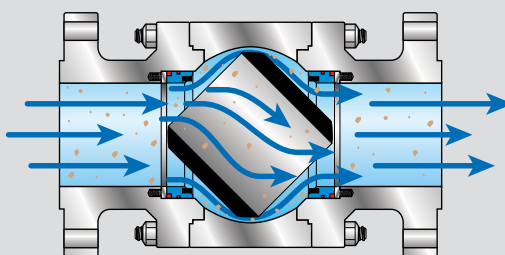
- Self Cleaning
- Full Port
- Protects the Seats
- Flow Around Ball
- Low Operating Torque
- Hardened Surface Options
- Improved Throttling
- Easy to Service

## Flow Pattern Comparison

**Ordinary Ball Valve** allows debris and solids to accumulate.



**QuadroSphere™** allows debris to be flushed from valve body.





## Why Choose QuadroSphere™ ?

When high velocity abrasive flow leads you to think "premium priced" metal seated ball valves...

- **QuadroSphere's multiple flow path geometry reduces damaging velocity at a budget friendly price!**

When standard ball valve cavities fill with media making operations difficult...

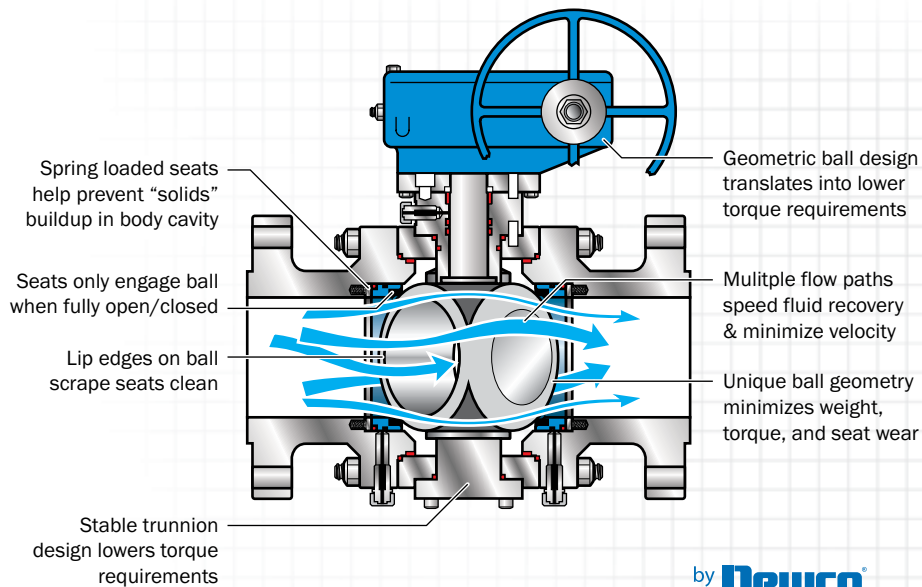
- **QuadroSphere's self-cleaning technology feature will keep the cavity clear!**

When abrasive media damages your ball surface and seats during cycling...

- **QuadroSphere's unique ball geometry cleans seats and minimizes rubbing during cycling!**

When gate and globe valve operations become difficult due to solids accumulation around the stem...

- **QuadroSphere's quarter-turn radial operation with self-flushing geometry keeps your valve turning!**



by **Newco**

## Specifications

Meets/exceeds CSA requirements. Fire Safe Design

BASIC DESIGN	ASME B16.34/API 6D
Face-to-Face Dimension	API 6D
Flanged End Dimension	ASME B16.5
Inspected & Tested to	API 6D & 607
Certifications	ISO 9001/Canadian CRN

## Verified Performances

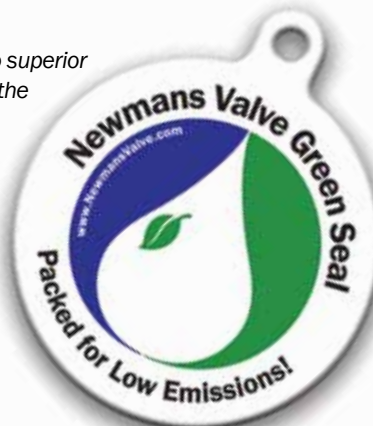
- Over 300,000 successful cycles of in a Potato Peeler Exhaust application @ 290 psig to atmosphere
- ANSI 300 performed satisfactorily for more than 9 months in a PVC Reactor Outlet application
- 10" ANSI 300 performed perfectly for more than 7 years as a "crown valve" in a Hot Geothermal Brine Re-injection application... and is still in service!

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. Newmans offers the GreenSeal Packing System for severe service applications to guarantee your valve is packed for low fugitive emissions!

Testing shows that cast steel gate valves with standard body/bonnet joint, using a spiral wound metal with graphite gasket, revealed no leakage into the atmosphere. The addition of our GreenSeal packing system completes our leak-proof package.

Newco valves of current design, properly installed and adjusted, will provide 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.

Newmans Valve is serious about its commitment to superior products and service. We are just as committed to the world we all live in. Our GreenSeal technology is good for the environment and good for business.



## Newmans' GreenSeal Low Emissions Packing Technology



# Product Range

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

Brand	Type	Size	Class	Ends	Available Material**
Newco	Cast Carbon	* 2" to 48"	150 - 2500	RF, RTJ, BW	WCB, LCC
Newco	Cast Alloy	2" to 24"	150 - 2500	RF, RTJ, BW	C5, WC6, WC9, C12, C12A
Newco	Forged Carbon	1/4" to 3"	150 - 4500	FLGD, THRD, SW	A105N, LF2
Newco	Forged Alloy	1/4" to 2"	150 - 4500	FLGD, THRD, SW	F5, F9, F11, F22, F91, F51
Newco	Pressure Seal	2" to 24"	600 - 4500	RF, RTJ, BW	Cast - all grades
Newco	Floating Ball	1/2" to 18"	150 - 600	RF	WCB, LCC, CF8M
Newco	QuadroSphere	2" to 36"	150 - 2500	RF, BW	A105, LF2, F316, F51
Newco	Trunnion Ball	2" to 36"	150 - 2500	RF, BW	A105, LF2, F316, F51
Newco	Trinity Triple Offset	3" to 120"	150 - 600	WFR, LUG, FLGD, BW	WCB, 316, Monel, Hastelloy, NiAlBr
OIC	Cast Stainless	1/2" to 24"	150 - 2500	RF, RTJ, BW	304/L, 316/L, 317/L, 321, 347/H, A20, Monel, Inconel, Hastelloy, Duplex
OIC	Forged Stainless	1/4" to 2"	150 - 4500	FLGD, THRD, SW	304/L, 316/L, 317/L, 321, 347, A20, Monel, Inconel, Hastelloy, Duplex

\*Larger sizes available upon request. \*\*Other materials available upon request.

## Company Information

Newmans is recognized as a global valve manufacturing company providing product to the market on a world-wide basis. The NEWCO and OIC trademarks are recognized and respected the world over for their high quality and ability to meet the industry's most exacting standards. Newmans manufactures and markets one of the industry's broadest product lines suitable for most applications and market segments. Newmans is fully committed to being the reliable valve source to its customer base by quoting on time, delivering on time a quality product at a competitive price. In support we have a highly qualified technical engineering staff, superior customer service backed by large inventories of finished valves which can be shipped daily from seven strategically located distribution centers around the world.

## Product Technology

Newmans manufactures Gate, Globe, Check, Stop Check, Tilting Disc, Floating Ball, Trunnion Ball, QuadroSphere™ Ball, and Trinity Series Triple Offset valves in a full range of materials, valve styles, and pressure classes. Cast carbon steel, low-alloys, and forged valves are manufactured under the NEWCO trademark. 300 series stainless steel, Alloy 20, and other exotic alloys are produced and marketed under the OIC trademark.

Newmans manufactures and stocks valves in sizes from 1/4" to 120" in diameter and in pressure classes from 150 to 4500 lbs. Larger sizes are available on request.

Newmans facilities operate under ISO 9001-2000 & 14001-2004 series registration. All valves are compliant to the industry standards of API, ASTM, and ASME. Inspection and testing is maintained throughout the manufacturing process to verify compliance to these standards as well as any specific customer requirements.

Customer service is further enhanced by complete modification and actuation capabilities. This capability allows Newmans to provide rapid deliveries of special valve requirements to meet the customer's delivery needs.

## Mission Statement

It is our goal to be known and respected in the Industry as the reliable valve source for our extensive knowledge and superior service. Measured by keeping our word, we will deliver quality products on time at a fair value.

We achieve the above dealing with integrity in an open and flexible environment allowing people access to valuable information to make good and timely decisions. We believe that all this can be accomplished yielding great rewards for all involved while maintaining a balance in life.

### Stafford, Texas - Corporate Headquarters

13127 Trinity Dr. - Stafford, Tx 77477  
Tel: 281.302.4900 / Fax: 281.302.4801  
**Toll Free: 800.231.3505**

### Houston, Texas

3003 SH 225 #120 - Pasadena, TX 77503  
Tel: 713.675.8631 / Fax: 713.675.1589

### Carson, California

1539 Del Amo Blvd. - Carson, CA 90746  
Tel: 310.667.8570 / Fax: 310.878.0355

### East Brunswick, New Jersey

19A Cotters Lane - East Brunswick, NJ 08816  
Tel: 732.257.0300 / Fax: 732.238.0132

### Atlanta, Georgia

3065 Chastain Meadows Pkwy. - Bldg. 200 Ste. 200  
Marietta, GA 30066  
Tel: 678.278.4000 / Fax: 678.278.4040

### Edmonton, Alberta

9555 - 12th Av SW - Edmonton, AB T6X 0C6 - CAN  
Tel: 780.464.3500 / Fax: 780.467.0376

### Barrie, Ontario

92 Davidson Street - Barrie, Ontario L4M 3S3 - CAN  
Tel: 705.737.4216 / Fax: 705.737.5156

### Shanghai, China

Suite 702, Jinying Tower A - 1518 Minsheng Road  
Pudong, Shanghai CHINA 200135  
Tel: ++86.21.61049569 / Fax: ++86.21.61049579

### Bergamo, Italy

Piazza Salvo D'Acquisto, 90  
Trescore Balneario (BG) 24069 - Italy  
Tel: ++39.035.944914 / Fax: ++39.035.4271247

### Melbourne, Australia

1 Glencairn Avenue  
Deer Park, Victoria, AU 3023  
Tel: ++61.039.7683444 / Fax: ++61.039.7683456

### Brisbane, Australia

72-73 French Avenue, Brendale,  
Brisbane QLD 4500 Australia  
Tel: ++61.034.905300 / Fax: ++61.039.7683456