

Manufacturer of

Newco COOPER OIC



www.NewmansValve.com

Product Line Brochure

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







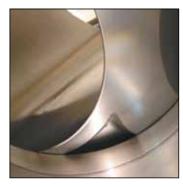


























&Newmans*

Newmans manufactures a complete line of Newco and OIC valve products in a full range of sizes, classes, and materials. Our newest additions are Cooper exotic valves, Sub-Sea ball valves, 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, ball, 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. All Newmans products are manufactured,









Cast WCB, 316, Monel, Hastelloy, and NiAlBr

Features: Sealed 316SS Bearings, NACE Compliant, ISO 15848 Emmision Tested, and Fire Safe Tested

per API 607

(Details on page 17)

NEWCO

Floating Ball Valves and Trunnion Mounted Ball Valves with Standard, Sub-Sea, or QuadroSphere™ **Technology**

Body: 2-Piece and 3-Piece Sizes: 2" thru 36" Class: 150 thru 2500





NEWCO

Forged Steel

Gate, Globe, Check, and Y-Pattern Valves

Bonnet: Bolted and Welded Sizes: 1/4" thru 2" Class: 150 thru 4500



COOPER

Cast and Forged Exotic Alloys Gate, Globe, Check, and Ball Valves

Bonnet: Bolted Sizes: 1/2" thru 24" Class: 150 thru 1500 Design: ASME B16.34





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



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 to see our complete line of Newco, Cooper, & OIC valves.







Newco°

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.







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.



Floating Balls

Sizes: 1/2" thru 12" **Class:** 150 thru 600 **Design:** API 608 & API 607

Ends: RF

Materials: WCB, LCC, CF8M

NEWCO 2-piece bolted body floating ball valves are cast in-house and are available in both reduced and full port designs, and are Fire Tested. (**Details on page 11**)



Trunnion Balls

Sizes: 2" thru 36" Class: 150 thru 2500 Design: API 6D Ends: RF, BW, RTJ

Materials: A105, LF2, F316, F51

(Details on page 12)



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 13 & 14)



Red Hempel® coating. QuadroSphere*

Sub-Sea Balls

Sizes: 1" thru 40" (larger sizes available)

Class: 150 thru 2500 Design: API 6A & 6D Ends: FLGD, RTJ, BW, HUB

Materials: Forged Carbon Steel & Alloy grades

Newmans Sub-Sea is focused on the design, manufacture and timely delivery of high integrity sub-sea valves for all conditions and environments. The Newco Sub - Sea Trunnion Mounted Ball Valves are manufactured in standard and exotic materials to meet our client's requirements and expectations.

(Details on pages 17 & 18)

Floating, Trunnion & QuadroSpere™ & Sub-Sea Ball Valves

The NEWCO collection of ball valves include Floating Ball Valves, Trunnion Ball Valves, the innovative QuadroSphere® Ball Valves, and Sub-Sea Ball Valves ranging from sizes 1/2" thru 40" in Classes 150 thru 2500. Products are available in most metallurgies. Larger sizes are available upon request.







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.



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.



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.



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.

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.



COOPER°

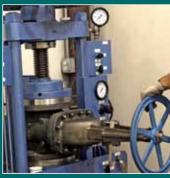
Exotic Alloys

COOPER manufactures a complete line of Ball, Gate, Globe, and Check valves whether in sizes 1/4" thru 24", ANSI Class 150 thru 1500, in stainless steel or exotic alloys, or special design upon application. COOPER valves are manufactured to applicable sections of ANSI and API standards and are used in almost every corrosive application today.

Documentation

- MTR Mill Test Report
- Hydrostatic Certs API 598
- NDE Non-destructive, Dye penetrant, X-ray
- Alloy Verification Alloy Analyzer







Gates

Sizes: 1/2" thru 24"
Class: 150 thru 1500
Design: ASME B16.34
Ends: RF, RTJ, THRD, SW, BW
Materials: Stainless & Exotic Alloys

Features: OS&Y, Bolted Bonnet, Solid Wedge, TFE Gasket & Packing, Rising Stem, Integral

Seat, Stainless Steel Bolting

Options: Renewable Disc, Hardfacing, Cryogenics, Flex Wedge, Fugitive Emissions

Control, Bleed Hole, Actuation

Note: Full range of specialty exotic alloy sealing, bolting, & soft goods available upon request.

Globes

Sizes: 1/2" thru 12"
Class: 150 thru 1500
Design: ASME B16.34
Ends: RF, RTJ, THRD, SW, BW
Materials: Stainless & Exotic Alloys
Features: OS&Y, Bolted Bonnet, Plug Type
Disc, TFE Gasket & Packing, Rising Stem,
Integral Seat, Stainless Steel Bolting
Options: Renewable Plug, Hardfacing,
Fugitive Emissions Control, Cryogenics,
Actuation

Note: Full range of specialty exotic alloy sealing, bolting, & soft goods available upon request.



Sizes: 1/2" thru 12"
Class: 150 thru 1500
Design: ASME B16.34
Ends: RF, RTJ, THRD, SW, BW
Materials: Stainless & Exotic Alloys
Features: Swing Type, TFE Gasket,
Bolted Cover, Intergral Seat, Stainless

Steel Bolting

Options: Renewable Disc, Hardfacing,

Cryogenics, Lift Check

Note: Full range of specialty exotic alloy sealing, bolting, & soft goods available upon request.

3-Piece Balls

Sizes: 1/4" thru 3"

Pressure: 1500, 3000, 5000 PSI Ends: THRD, SW, BW, Sanitary Materials: Stainless & Exotic Alloys Features: 3 Piece Design, Standard Port, Full Port, Blow-out Proof Stem, TFE Seals,

Secondary Metal Seat

Options: Vacuum Service, Cryogenics **Note:** Full range of specialty exotic alloy sealing, bolting, & soft goods available upon request.





Full Port Flanged Balls

Sizes: 1/2" thru 12" **Class:** 150 thru 1500 **Design:** ASME B16.34

Ends: RF, RTJ

Materials: Stainless & Exotic Alloys
Features: 2-Piece Split Body, Full Port,
Blow-out Proof Stem, Secondary Metal Seat,
Firesafe (Per API 607 Rev. IV), Stainless Steel

Bolting, Stainless Steel Handle

Options: Metal Seats, Cryogenics, Vacuum Service, Fugitive Emissions Control, Ceramics, Actuation **Note:** Full range of specialty exotic alloy sealing, bolting, & soft goods available upon request.

Wrought Designation		Cast Equivalents
304	ASTM A744/A351	CF8
304 - Modified	ASTM A744	CF8 C0.04% min., 0.08% max.
304H	ASTM A351	CF10
304L		CF3
	ASTM A744/351	
316	ASTM A744/A351	CF8M
316L	ASTM A744/A351	CF3M
317	ASTM A744/A351	CG8M
317L	ASTM A744/A351	CG3M
317LM	ASTM A744	CG3M Mod.
347	ASTM A744/A351	CF8C
347H	ASTM A351	CF8C Mod. C 0.04% min., C 0.08% max.
904L/N08904	ES1167	Cooper Spec
Alloy 20 - Modified	ASTM A990 (UNS N08007)	CN3MCu
Alloy 20 - Cast	ASTM A744/A351	CN7M
Alloy AL - 6XN	ASTM A744/A351 N08367	CN3MN
Alloy Steel	ASTM A487	4D
Avesta 254 SMO	ASTM A-351	CK3MCuN
Duplex SS - Cast	ASTM A890	CD3MN (5A), CD3MWCuN(6A), CD4MCu, CD4MCuN, GR. 4A (CD3MN)
Duplex SS - Cast	ASTM A995	CD4MCuN
Hast B - Cast	ASTM A494	N-12MV
Hast C - Cast	ASTM A494	CW12MW
Hast C - 22 Cast	ASTM A494	CX2MW
Hast C4	ASTM A494	CW2M
Hast B2	ASTM A494	N-7M
Hast C4 - Cast Modified	ASTM A494	CW2M-Class 1 Mod. Si o.4% min., S 0.015% max.
Incoloy 825	ASTM 494	CU5MCuC
Inconel 600	ASTM A494	CY40-CL1, CY40-CL2
Inconel 625 - Cast	ASTM A494	CW6MC
Incoloy 800	ASTM A351	CT15C
Monel	ASTM A494	M-30H, M35-2
Monel 400	ASTM A494	M35-1
Nickel 200	ASTM A494	CZ100
Stellite	AMS 5387	R30006
Titanium - Cast	ASTM B367	GR2, GR C3, GR C5
Titanium	ASTM B367	GR7B, GRC2
Titanium	ASTM GR.12	UNS R53400
Zirconium - Cast	ASTM A752	GR705C, GR705C
Zii Joillaili Gast	ACTIVIATOR	Jan 1 000, an 1 000

COOPER®

Special Service Applications

- Acid HC1, H2SO4, HNO3, Acetic, etc.
- Chlorine Available in special designs.
- **High Temperature** Ball valves 1/4" thru 12" for servicing temperatures to 1100° F.
- **Oxygen** Specially cleaned & prepared for O2 service.
- **Critical** Designed for lethal, corrosive, erosive, & toxic applications.
- **Abrasive/Erosive** Materials available exceeding 2400 knot hardness.
- Cryogenic Servicing temps. to -3000 F
- Mining Autoclave applications for corrosive, erosive, & high temp. services.
- Vacuum Suitable for service to 20 microns.

For features or materials not listed in this publication, please provide a full description of requirements or consult your sales representative for assistance.









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.









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 Cryogeneic 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 Cryogeneic 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, Intergral Seat,

Stainless Steel Bolting

Also available in Cryogeneic designs!

Right for the Job and right for your Budget.

Newco® Trinity Series - Triple Offset Butterflies

3" thru 120" • ASME 300 thru 600

The NEWCO Triple Offset Valves feature the premium Triple Offset design, providing zero leakage in both directions by utilizing a Stellite/316 SS metal seating surface carefully matched for 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.

NEWCO TOVs serve the industrial processing, transmission, water treatment and power industries across the globe. The Newco TOV offers dependable. economical service for all applications that require proven performance and quality.

FEATURES

- Self Cleaning
- Full Port
- **Bubble Tight Shutoff**
- Self Centering Disc
- Blowout Proof Stem Option
- Stellite Body Seat Standard
- Wide Range of Configurations
- Firesafe Tested to API 607 Rev 5 Wafers, Lugs, Flanged, & Buttwelds
- Materials Include
- WCB
- 316 Stainless Steel
- Monel
- Hastelloy
- Nickel Aluminum Bronze





Newco® Pressure Seal Gates, Globes, & Checks

2" thru 36" • ASME 600 thru 4500

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.



Toll Free: 1.800.231.3505 www.NewmansValve.com



Newco°

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.	✓	



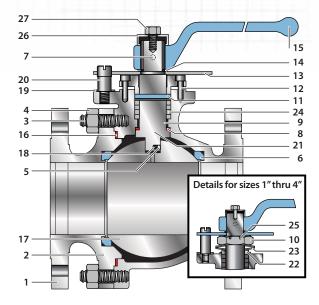


Floating Balls



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



	Typical Bill of Materials						
1	Body	ASTM A216-WCB/A351-CF8M/A352-LCC	1 5	Handle	ASTM A216-WCB		
2	Adapter	ASTM A216-WCB/A351-CF8M/A352-LCC	1 6	Gasket	SS - 316 w/Graphite		
3	Stud	ASTM A193-B7M/A193-B8A/A320-L7M	17	Ball	ASTM A351-CF8M		
4	Heavy Heax Nut	ASTM A193-2HM/A194-8A/A194-7M	18	Spring Antistatic	ASTM A313-302		
5	Ball Antistatic	Stainless - Commercial	19	Key Lock Plate	Stainless - Commercial		
6	Seat ring	Teflon - Glass Filled 25%	20	Stopper Pin	Stainless - Commercial		
7	Hex Sckt Set Scrw	Stainless - Commercial	21	Stem	ASTM A276-316		
8	Thrust Washer	Teflon - Glass Filled 25%	22	Gland Ring	ASTM A246 - 316		
9	Sleeve	Teflon - Glass Filled 25%	23	Spring Washer	Stainless - Commercial		
24	Gland Nut	Carbon - Commercial / ASTM A276-CF8M	10	Gland Packing	Graphite		
11	Gland	ASTM A351-CF8	25	Lock Plate	Stainless - Commercial		
12	Sket HD Cap Scrw	Stainless - 18 - 8	26	Cup Washer	Stainless - Commercial		
13	Stopper Plate	Stainless - Commercial	27	Hex Bolt	Stainless - Commercial		
14	Circlip	Stainless - Commercial	-	-	-		

Trunnions by Newco **Benefits at a Glance** • 2" thru 36" 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 Trunnion Design • ISO 5211 actuator mounting pad · 2" thru 36" • 100% tested in accordance to API 6D • ASME 150 thru 2500 Secondary stem & seat seal system · Wide variety of seating options Corrosion resistant bearings · Easy to service

Heavy-duty Seat Rings · Variety of inserts with metal back-up · Spring loaded/pressure energized 22 · Metal-to-metal options 20 · Hardened surface options 24 21 23 · Field replaceable 18 13 10 15 9 16 3 29 30 27 31 32 28

	Typical Bill of Materials				
1	Body Flange	ASTM A105	17	Stem Bearing	R-PTFE
2	Body	ASTM A105	18	Stuffing Box	ASTM A105
3	Ball	ASTM A182 - F316	19	Injection Fitting	ASTM A105
4	Spring	Inconel X-750	20	Adaptor Flange	Carbon steel
5	Seat Ring	ASTM A276 Type 316	21	Pin	Carbon steel
6	Seat	R-PTFE	22	Screw	ASTM193 - B7M
7	Vent Valve	ASTM A182 Type 316	2 3	Packing	Flex Graphite
8	Bearing	1045 + PTFE	24	Gland	ASTM A276 Type 410
9	Seat Gasket	Graphite	25	Pin	Carbon steel
10	O-ring	Viton	26	Key	AISI 1045
11	Body Stud	ASTM 193 - B7M	27	Screw	ASTM A193 - B7M
12	Body Nut	ASTM 194 - 2HM	28	Gasket	316 + Graphite
13	Body Gasket	316 + graphite	29	Drain Plug	ASTM A182 Type 304
14	Antistatic Dvc	ASTM A276 type 316	30	Trunnion	ASTM A105
1 5	Bearing	1045 + PTFE	31	O-ring	Viton
16	Stem	ASTM A182 Type 316	32	Injection Fitting	ASTM A105

Newco

Specifications

Certifications

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

ISO 9001/Canadian CRN







Newco

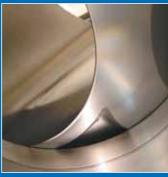
QuadroSphere™

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









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.

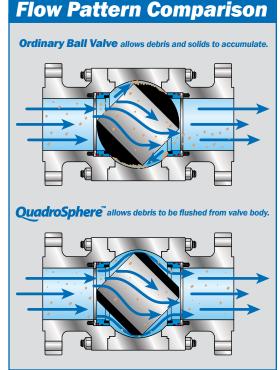
Seventy Percent Less Wear

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 ThrottlingEasy to Service



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...

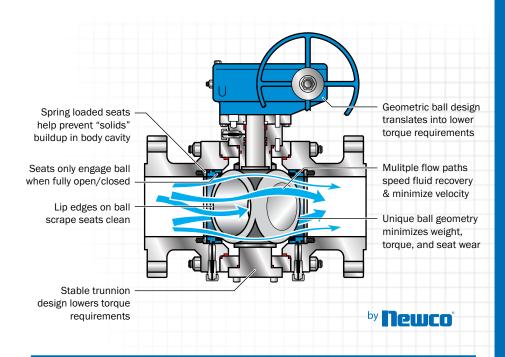
- QuadroSphere's self-cleaning technology feature will keep the cavity clear!

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!



QuadroSphere™ Features

- 2" thru 24" full or standard bore
- ASME Classes 150 thru 2500
- Heavy-duty forged 3-piece body
- Trunnion design
- API 6D face-to-face
- Flanged or weld-end
- Self-cleaning technology to prevent solids accumulation
- Protected seating
- A105, LF2, or 316 SS body
- Hard chromed stainless steel ball
- · Body vent or flush and drain
- Blow-out proof stem
- Corrosion resistant bearings
- Secondary stem & seat seal system
- Anti-static protection

- Independent seat rings
- Inconel seat springs
- Bi-directional seating
- Firesafe design
- Graphite gaskets and seals
- Lower operating torques
- Improved throttling
- Double block & bleed option
- ISO 5211 actuator mounting pad
- 100% tested in accordance to API 6D

QuadroSphere™ Heavy-duty Seat Rings

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





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°

Specifications

BASIC DESIGN	ASME B16.34
Wellhead Equipment	API 6A
Pipeline Equipment	API 6D
ROV Interface on Sub-Sea Productions	API 17H
Face-to-Face Dimension	ASME B16.10 & B16.25
Flanged End Dimension	ASME B16.5
Inspected & Tested to	API 598
SSC Resistant Metallic Matls. for Oilfield Equip.	NACE MR 01.75

Newmans Sub-sea division has operated in the Valve Industry for more than 30 years. Since their beginning, the company has acquired and applied its knowledge and experience in the Oil, Gas and Energy markets.

Newmans Sub-sea is focused on the design, manufacture and timely delivery of high integrity sub-sea valves for all conditions and environments. The Newco Sub-Sea Trunnion Mounted Ball Valves are manufactured in standard and exotic materials to meet our client's requirements and expectations.

We combine the latest in design and manufacturing technologies ensuring we deliver the highest levels of reliability and quality in our products.





Sub-Sea Trunnions API 6A & 6D

Trunnion Design

- 1" thru 40" (larger sizes available)
- · All ASME & API Classes

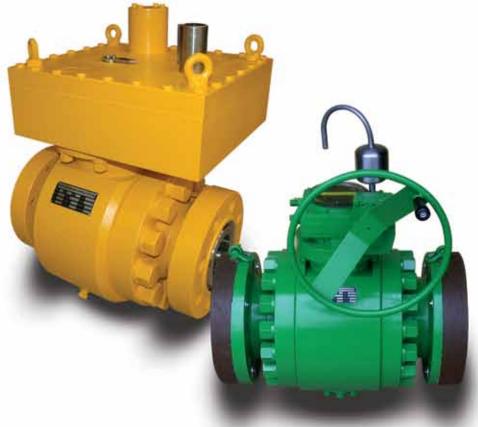
Subsea Valve Engineering and Manufacturing are critical disciplines in the valve industry. It is not an area for high volume commodity manufacturing. It is the domain of the valve artisan.

To excel, it is necessary to consider design functionality, available technology, manufacturing processes as well as environmental and cost impact.

Newmans Sub-Sea division is not a mass production operation. Every completed product is truly that, completed in every sense and to the client's exacting specification. We listen to your requirements as these differ with every client. Newmans works with you to achieve the best possible outcome for your service. In short, you get what you want. We specialize in short to medium term delivery requirements at competitive market rates.



РЕМСО



Standard Features

- · Large trunnion support bearings for high duty extended life
- Spring energised independent floating seats
- · Bearing block design to minimise body leak paths
- Soft seating
- · Self relieving or single piston effect seats
- Dual barrier body seals (Not applicable with welded body)
- Dual barrier gland seals (Not applicable with welded body)
- Triple barrier stem seals
- · Large stem diameter for high duty cycle and extended life
- · ROV friendly position indicator
- Antistatic & anti-blow-out designed stem
- Designed and constructed in accordance with API 6A/6D

Optional Features

Seats

- · Metal-to-metal
- · Double piston effect
- Combination (self relieving/double piston) seats

Stem

- · Seal area carbide coated
- Metal stem seal

CRA Inlay

- · Inconel 625, incoloy, 316 stainless steel
- · Wetted seal areas
- · Complete cladding

End Connections

- Flanged RF, RTJ, standard or extended length
- Buttweld
- Lengths extended by transition pups
- Clamp hub
- · Compact flange

Actuation

- Manual hand Wheel
- · ROV bucket in accordance with API 17H
- Double acting or spring return hydraulic actuator

Applicable Standards

The following standards and codes are those governing design and manufacturing of our ball valves. Other codes and standards may be considered upon request.

- · API American Petroleum Institute
- · API 6A Specification for Wellhead Equipment
- · API 6D Specification for Pipeline Valves
- API 17H ROV Interfaces on Sub Sea Production Systems
- API 598 Valve Inspection and Test
- ANSI American National Standard Institute
- ASME/ANSI B 16.5 Steel Pipe Flanges and Flanged Fittings
- ASME/ANSI B 16.10 Face-to-Face and End-to-End Dimensions of Ferrous Valves
- ASME/ANSI B 16.25 Butt-Welding Ends
- ASME/ANSI B 16.34 Steel Valves
- NACE Std. MR 01.75 SSC Resistant Metallic Materials for Oilfield Equipment











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









Trinity Triple Offset Butterfly Valves

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

^{by} Пешсо

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



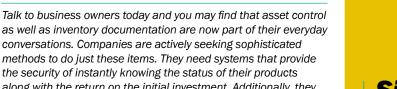
Newmans Triple Offset Valves feature standard Stellite body seats, robust laminated disc seats, and unique graphite stem bearing seals for exceptional service life.



Asset Protection

as well as inventory documentation are now part of their everyday conversations. Companies are actively seeking sophisticated methods to do just these items. They need systems that provide the security of instantly knowing the status of their products along with the return on the initial investment. Additionally, they

want the assurance of knowing what they received is what they ordered. For these businesses, idsTag is the solution they have been requesting. Built upon industry proven hardware technologies joined with a sophisticated and secure web-centric database, idsTag provides your authorized employees with immediate knowledge regarding every identified product or component that warrants tracking. You can see the location, the status in your inventory and every detail of the order, shipment and receipt of these critical materials. Join the companies that are making the switch to the inventory documentation answer for modern companies - idsTag. It's real.





Simple to...

Operate

Universally recognized hardware components for scanning that are currently in use in the industry.

Use

Access to information is available anywhere in the world to authorized users via a secure website.

Incorporate

The process of integrating existing data is handled by our team of experts while new purchases are immediately moved into the database by your vendor.





GreenSeal -**Low Emissions Packing Technology**

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.













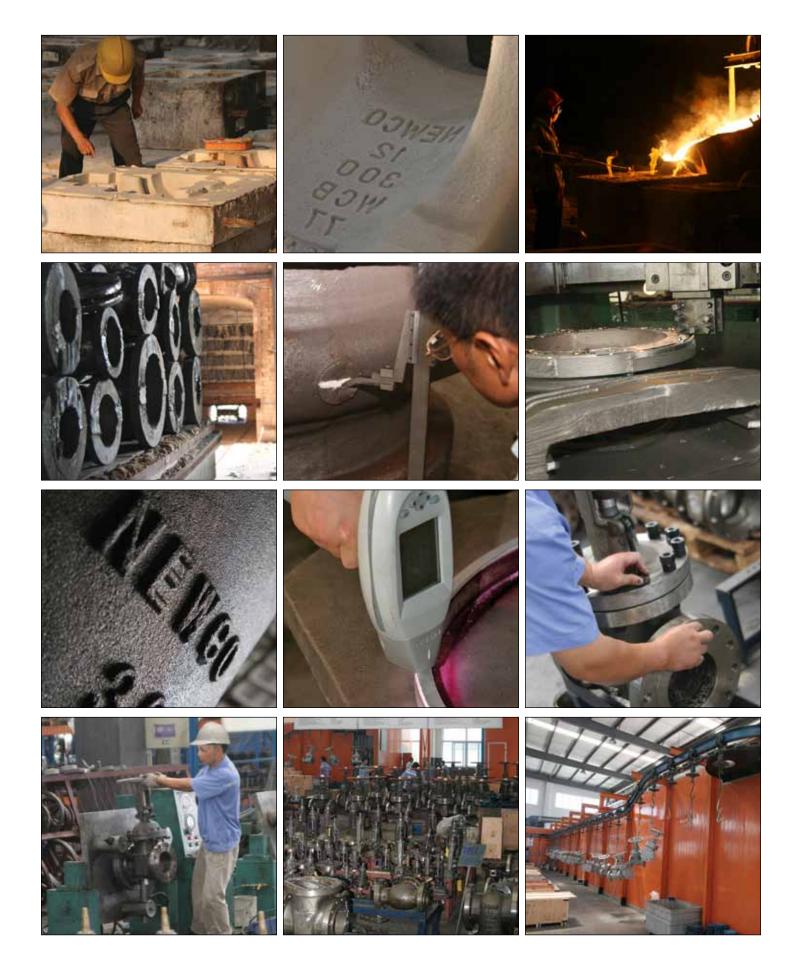
















Brand

Newco

Newco

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OIC

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Cooper

Cooper

Cooper

Cooper

Туре

Cast Carbon

Cast Alloy

Forged Carbon

Forged Alloy

Pressure Seal

Floating Ball

Sub-Sea

Trunnion Ball & QuadroSphere

Trinity Triple Offset

Cast Stainless

Forged Stainless

Cast Alloy

Forged Alloy

Ball Valves

Ball Valves

Size

* 2" to 48"

2" to 24"

1/4" to 3"

1/4" to 2"

2" to 24"

1/2" to 18"

* 1" to 40"

2" to 36"

3" to 120"

1/2" to 24"

1/4" to 2"

1/4" to 24"

1/4" to 3"

1/4" to 3"

1/2" to 12"

Class

150 - 2500

150 - 2500

150 - 4500

150 - 4500

600 - 4500

150 - 600

150 - 2500

150 - 2500

150 - 600

150 - 2500

150 - 4500

150 - 1500

800 - 1500

1500 PSI

150 - 1500 PSI

Ends

RF, RTJ, BW

RF, RTJ, BW

FLGD, THRD, SW

FLGD, THRD, SW

RF, RTJ, BW

RF

RTJ, RF, BW, HUB

RF, BW

WFR, LUG, FLGD, BW

RF. RTJ. BW

FLGD, THRD, SW

FLGD, THRD, SW, BW

FLGD, THRD, SW, BW

THRD, SW, BW

FLGD

following. Product range is subject to change without notice.	
Available Material**	est.
WCB, LCC	requ
C5, WC6, WC9, C12, C12A	nodi
A105N, LF2	n əlq
F5, F9, F11, F22, F91, F51	vaila
Cast - all grades	als a
WCB, LCC, CF8M	ateri
A105, LF2, LF3, F316, F51, F53, F55	ner m
A105, LF2, F316, F51	. **Other materials available upon reques
WCB, 316, Monel, Hastelloy, NiAlBr	uest.
304/L, 316/L, 317/L, 321, 347/H, A20	upon request
304/L, 316/L, 317/L, 321, 347, A20	
Monel, Inconel, Hastelloy, Titanium, Zirconium, Duplex	available
Monel, Inconel, Hastelloy, Titanium, Zirconium, Duplex	sizes aı
Monel, Inconel, Hastelloy, Titanium, Zirconium, Duplex	*Larger sizes
Monel, Inconel, Hastelloy, Titanium, Zirconium, Duplex	

Company Information

Newmans is recognized as a global valve manufacturing company providing product to the market on a world-wide basis. The NEWCO, OIC, and COOPER 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, Sub-Sea, 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 and Alloy 20 are produced and marketed under the OIC trademark. Other exotic alloys are manufactured under the Cooper 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.

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Toll Free: 800.231.3505

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