Valves For Industrial Process Applications

DEMCO® NAVCO® NUTRON® TECHNO™ WHEATLEY® WKM®

WKM® DynaSeal® 310 BALL VALVES

WKM DynaSeal 310 Ball Valves are premium quality floating ball valves proven in a myriad of chemical, petrochemical, refining, pulp and paper, power generation and many other industrial applications.

Sizes: Full Port: 1/4 in. - 12 in. (8 mm - 300 mm)
Reduced Port: 1/2 in. - 14 in. (15 mm - 350 mm)

Pressure Classes: ASME 150, 300, 600 and Working Pressures to 5000 psi

Operating Temperatures: -50°F to 650°F (-46°C to 343°C)

End Connections: Flanged, Threaded and Weld Ends

Body Styles: 2-Piece except Flanged ASME Classes 150 and 300 are Unibody in sizes 1/2 in. through 1 in. (15 mm through 25 mm) Reduced Port

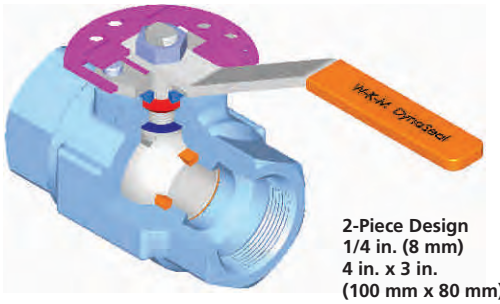
Body Materials: Carbon Steel and Stainless Steel. A Variety of Trims are Available.

Options: Pneumatic, Electric and Hydraulic Actuators, Solenoid Valves, Limit Switches

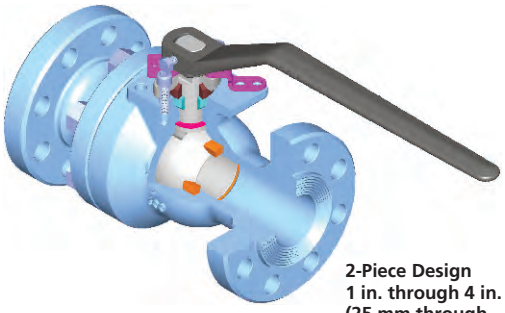
Fugitive Emissions: DynaSeal 310 Ball Valves can be Supplied and Certified to meet the Requirements of Fugitive Emissions as regulated by The 1990 Amendment to The Clean Air Act

Seat Materials: High Temp TFE, FKM, Stellite, Chromium Carbide Coated, Acetal Plastic

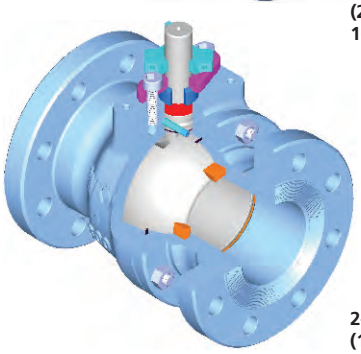
Features: Deep Protective Seat Pockets, Fire Tested API 607 4th Edition, Positively Retained Stem with Adjustable Packing for Low Emission, Extended Service



2-Piece Design
1/4 in. (8 mm)
4 in. x 3 in.
(100 mm x 80 mm)



2-Piece Design
1 in. through 4 in. x 3 in.
(25 mm through
100 mm x 80 mm)



2-Piece Design - 4 in.
(100 mm) and larger

WKM® DynaSeal® 370D4 BALL VALVES

WKM DynaSeal 370D4 Ball Valves are trunnion type valves which provide smooth, low torque operation for a wide variety of applications.

Sizes: Full Port: 2 in. - 16 in. (50 mm - 400 mm)
Reduced Port: 3 in. - 14 in. (80 mm - 350 mm)

Pressure Classes: ASME 150, 300, 600, 900 and 1500

Operating Temperatures: -50°F to 350°F (-46°C to 177°C)

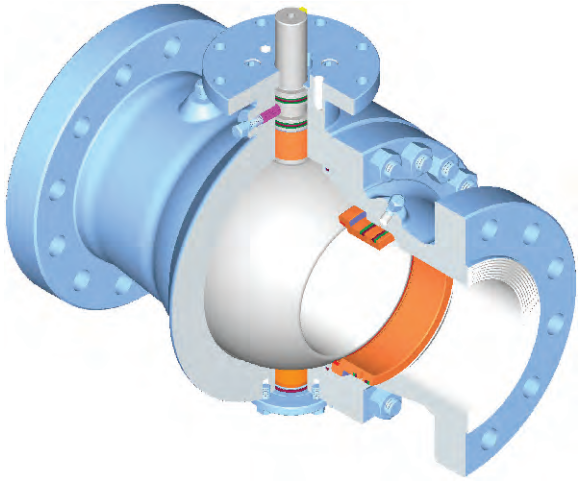
End Connections: Flanged

Body Styles: 2-Piece

Body Materials: Carbon Steel and Stainless Steel A Variety of Trims are Available.

Options: Pneumatic, Electric and Hydraulic Actuators, Solenoid Valves, Limit Switches

Features: Double-Block-and-Bleed with Automatic Body Relief Feature, Fire Tested API 6FA/API 607 4th Edition, Secondary Seat Sealant Injection Standard/Optional - Configuration on Size/Pressure Class



NAVCO® S SERIES BALL VALVES

NAVCO Ball Valves provide a range of quality, floating ball valves at an economical price.

Sizes: 1/4 in. - 4 in. (8 mm - 100 mm)

Pressure Classes: ASME 150 and 300
Working Pressure to 2000 psi

Operating Temperatures: -20°F to 500°F
(-29°C to 260°C)

End Connections: Flanged, Threaded, Socket Weld

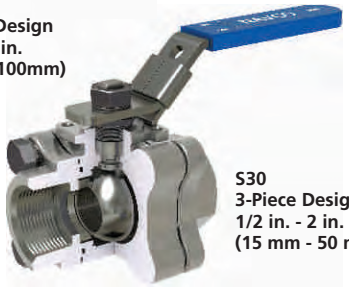
Body Styles: Unibody, 2-Piece and 3-Piece

Body Materials: Carbon Steel, Cast Steel and Stainless Steel

Features: Adjustable Packing,
TFM Seats (S10, S30),
Fire Tested API 6FA/API 607 5th Edition,
Conforms to NACE/ISO 15156,
Positively Retained Stem Design,
Handle Locking Device,
Available in CS/SS and SS/SS

S10
Unibody Design
1/2 in. - 4 in.
(15 mm - 100mm)

S20
2-Piece Design
1/4 in. - 2 in.
(8 mm - 50 mm)



S30
3-Piece Design
1/2 in. - 2 in.
(15 mm - 50 mm)

NUTRON® MODEL T3 FLOATING BALL VALVES

NUTRON Floating Ball Valves provide a range of quality, floating ball valves at an economical price.

Sizes: 1/4 in. - 4 in. (8 mm - 100 mm)

Pressure Classes: ASME 150 - 2500
Working Pressure to 6000 psi

Operating Temperatures: -150°F to 500°F
(-100°C to 260°C)

End Connection: Threaded, Flanged, Socket Weld, Butt Weld

Body Style: 3-Piece

Body Materials: Carbon Steel, Carbon Steel Plated, Stainless Steel and Special Alloys

Features: Adjustable Packing,
Fire Tested API 598/API 607 4th Edition,
Conforms to NACE MR0175 (2002)/ ISO 15156,
Positively Retained Stem Design,
Handle Locking Device

NUTRON® MODEL B3 FLOATING BALL VALVES

NUTRON Floating Ball Valves provide a range of quality, floating ball valves at an economical price.

Sizes: 1 1/2 in. - 6 in. (40 mm - 150 mm)

Pressure Classes: ASME 150 - 1500
Working Pressure to 4000 psi

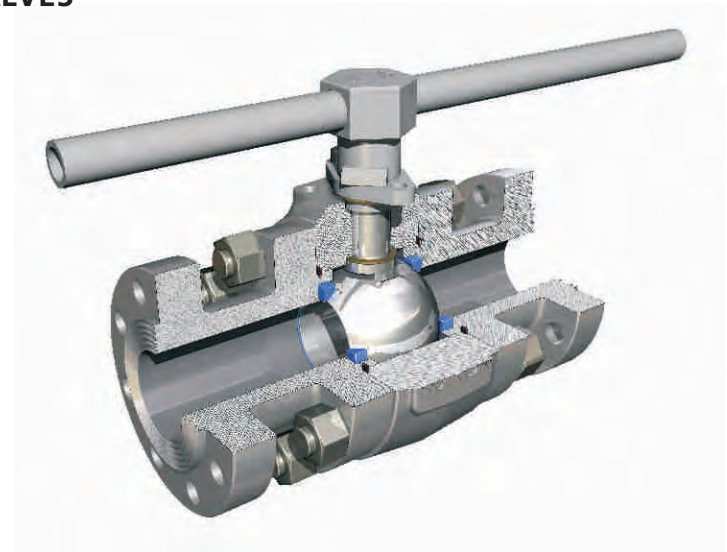
Operating Temperatures: -150°F to 500°F
(-100°C to 260°C)

End Connection: Threaded, Flanged, Socket Weld, Butt Weld

Body Style: 3-Piece

Body Materials: Carbon Steel, Carbon Steel Plated, Stainless Steel and Special Alloys

Features: Adjustable Packing,
Fire Tested API 598/API 607 4th Edition,
Conforms to NACE MR0175 (2002)/ ISO 15156,
Positively Retained Stem Design,
Handle Locking Device



DEMCO® BUTTERFLY VALVES

DEMCO Butterfly Valves are resilient seated valves designed for dependable service in a wide variety of applications. The DEMCO Butterfly Valve is available in three series:

Extended Neck (NE-C and NF-C), Short Neck (NE-I) and Notched (NE-D).

The Short Neck NE-I Series is also available with a Trim for Sanitary Service.

The NEI-T features a Teflon-Lined Seat.

DEMCO Butterfly Valves are also suited for Marine Application with ABS Type Approval and USCG Category A Acceptance.

Sizes:
NE-C, NF-C: 2 in. - 36 in. (50 mm - 900 mm)
Sanitary NE-I: 2 in. - 12 in. (50 mm - 300 mm)
NE-D: 2 in. - 12 in. (50 mm - 300 mm)
NEI-T: 2 in. - 10 in. (50 mm - 250 mm)

Working Pressure: 2 in. - 12 in. (50 mm - 300 mm): to 285 psi
2 in. - 10 in. (50 mm - 250 mm) NEI-T to 150 psi
14 in. - 36 in. (350 mm - 900 mm): to 150 psi

End of Line Service: 200 psi, 2 in. - 12 in. (50 mm - 300 mm)
150 psi, 14 in. - 36 in. (350 mm - 900 mm)

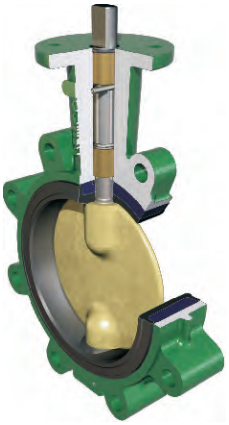
Operating Temperatures: -30°F to 300°F (-34°C to 149°C)

Body Types: Flangeless Wafer, Threaded Lug

Body Materials: Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Aluminum Bronze, Aluminum

Trims: A Variety of Alloys and Elastomers are Available

Features: Blowout-Proof Stem, Bronze Bearings, Dry Stem Journals, High Flow Disc, Hard Backed Cartridge Seat, Universal Top Flange for Ease of Automation



Lug Body

Wafer Body

WKM DynaCentric® BUTTERFLY VALVES

WKM DynaCentric Butterfly Valves are High Performance Butterfly Valves engineered for heavy-duty, maintenance free performance in a variety of applications.

Sizes and Pressure Classes: 2 1/2 in. - 36 in. (65 mm - 900 mm). ASME 150
2 1/2 in. - 24 in. (80 mm - 600 mm). ASME 300
3 in. - 12 in. (80 mm - 300 mm). ASME 600

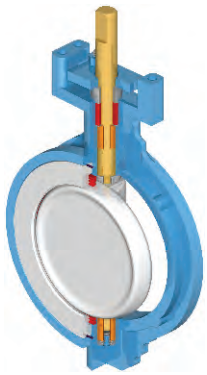
Operating Temperatures: -50°F to 1000°F (-46°C to 538°C)

Body Styles: Flangeless Wafer, Threaded Lug

Body Materials: Carbon Steel, Stainless Steel
A Variety of Trims are Available

Features: Positively Retained Stem, Heavy-Duty Eccentric Disc, Available Fire Tested, Bi-directional, Choice of Three Seat Types, Fire Safe Seat has Two Independent 316 Seat Rings surrounding RTFE Insert for Three Full Time, Bi-directional Seals instead of One, Available CE PED (Pressure Equivalent Directive) 97/23/EC

Lug Body



Wafer Body

NAVCO® SERIES E RESILIENT SEAT BUTTERFLY VALVE

The NAVCO Series E Butterfly Valve is available in wafer or lug body style.

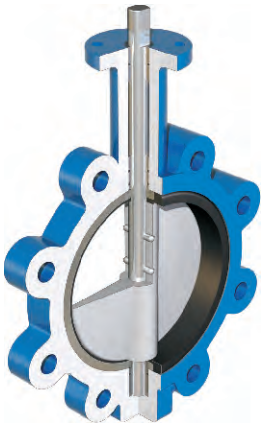
Sizes:
Pressure Classes: 200 psi 2 in. - 12 in. (50 mm - 300 mm)
150 psi 14 in. - 24 in. (350 mm - 600 mm)

Operating Temperatures: -30°F to 275°F (-34°C to 135°C)

Body Styles: Wafer, Lug

Body Materials: Cast Iron Wafer Only 14 in. - 24 in. (350 mm - 600 mm)
Ductile Iron Lug 2 in. - 24 in. (50 mm - 600 mm)
Wafer 2 in. - 12 in. (50 mm - 300 mm)

Features: 1-Piece through Stem, Large Top Flange, Integral Flange Seals No Gaskets Required, Streamlined Disc Design, Hard, Phenolic Backed Cartridge Seat
Compatible with ASME Class125/150 Flanges



WHEATLEY® SERIES 820 CHECK VALVES

The 820 is packed with features you normally have to ask for and pay extra for.

Sizes: 1/2 in. - 4 in. (15 mm - 100 mm)

Pressure Ratings: 275 psi - 3600 psi

Operating Temperatures: -20°F - 400°F (-29°C - 204°C)

End Connections: NPT Threaded, Grooved End

Materials: Carbon Steel, Stainless Steel, Ductile Iron, Aluminum Bronze

Features: Full Opening, 316 Stainless Steel Trim, Beveled Self Aligning Seat Design, Peroxide Cured Buna Primary Seat Seals Metal-to-Metal Secondary Seal, FKM seals (Optional), NACE MR0175 (2002), Horizontal or Vertical Flow-Up Service, Below-the-Threads Cover Seal isolates the Cover Threads from Line Media

WHEATLEY® WAFER CHECK VALVES

Economical and compact. Ideal for close quarter applications where a full body check valve will not fit.

Sizes: 2 in. - 12 in. (50 mm - 300 mm)

Pressure Classes: ASME 150 - 3600

Operating Temperatures: -20°F - 400°F (-29°C - 204°C)

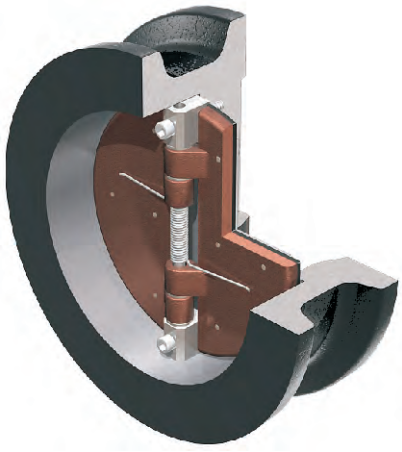
End Connections: Flanged End RFFE & RTJ

Materials: Carbon Steel, Stainless Steel

Features: Compact Design, Serrated O-Ring Face (Short Pattern), 316 Stainless Steel Trim 2 in. - 6 in. (50 mm - 150 mm) Short Pattern and Long Pattern, Carbon Steel with Zinc Plating Trim 8 in. - 12 in. (200 mm - 300 mm) Short Pattern, FKM Seals (Optional), NACE MR0175 (2002) (Long Pattern)

TECHNO™ DUAL PLATE METAL HINGED CHECK VALVES

Wafer design is compact, cost efficient and reliable.



Sizes: 2 in. - 36 in. (50 mm - 900 mm)

Pressure Classes: ASME 125, 150, 300 and 600
For Higher Pressures, Consult Factory

Operating Temperatures: -90°F - 1000°F (-67°C - 537°C)

End Connection: Wafer Style Flat Face and Raised Face

Materials: Cast Iron, Carbon Steel, Stainless Steel

Features: Retainerless Design is Standard, Field Repairable, Bronze, Carbon or Stainless Valve Plates, 316 Stainless Springs, Shaft, Shaft Supports and Fasteners Standard, Buna-N, EPDM, Viton, Teflon, Silicone and Metal-to-Metal Sealing

TECHNO™ ELASTOMER HINGED CHECK VALVES

Economical, multi purpose valve for a variety of applications.

Sizes: 1 in. - 48 in. (25 mm - 1200 mm)

Pressure Ratings: 50 psi - 450 psi.
For Higher Pressures, Consult Factory

Operating Temperatures: -90°F - 500°F (-67°C - 260°C)

End Connection: Threaded, Flanged, Wafer, Grooved, Plain and Special

Materials: Cast Iron,
Carbon Steel,
Stainless Steel,
Brass/Bronze,
Aluminum

Features: Low Cracking Pressure,
Minimal Pressure Drop,
Low Sealing Pressure Required,
Field Repairable,
Aluminum, Brass, Plated Steel or 316 Stainless Internals,
Buna-N, Neoprene, EPDM, Viton, or Silicone Seals

TECHNO™ THERMOPLASTIC CHECK VALVES

A dependable alternative to metal construction.

Sizes: 1 in. - 24 in. (25 mm - 600 mm)

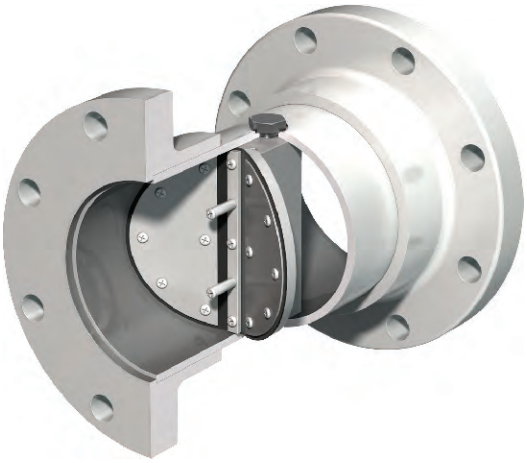
Pressure Ratings: 30 psi - 150 psi. @ 70°F (21°C)

Operating Temperatures: -80°F - 280°F (-62°C - 137°C)

End Connection: Threaded, Flanged, Wafer, Grooved, Plain and Special

Materials: PVC, CPVC,
Polypropylene and PVDF

Features: Low Cracking Pressure,
Minimal Pressure Drop,
Low Sealing Pressure Required,
Field Repairable,
EPDM, Buna-N or Viton Seals



WKM® DynaSeal 310 METAL SEATED BALL VALVES

WKM DynaSeal 310 Metal Seated Ball Valves are severe service engineered floating ball valves capable of withstanding the thermal shock of digester blow valves and the corrosiveness of liquid handling.

WKM Metal Seated Ball Valves have also performed in many other industrial applications including: Chemical, Refining, Mining and Power Generation.

Sizes: Full Port: 1/2 in. - 12 in. (15 mm - 300 mm).
Reduced Port: 3/4 in. - 14 in. (20 mm - 350 mm).

Pressure Classes: ASME 150, 300, 600 and working pressures to 3000 psi.

Operating Temperatures: -50°F to 600°F (-46°C to 316°C) at full B16.34 Body Rated Pressure.

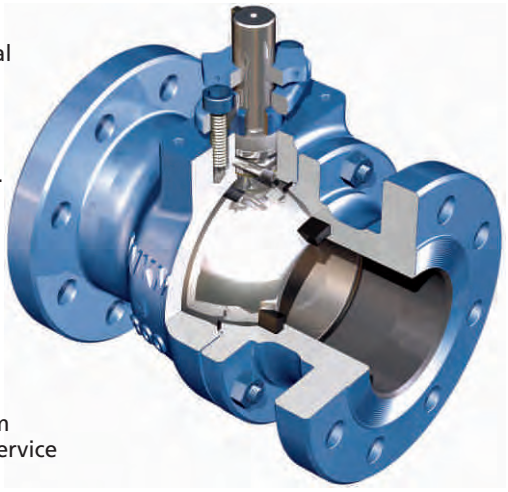
End Connections: Flanged and Threaded.

Body Materials: Carbon Steel and Stainless Steel.

Ball/Seat Materials: Trim 92H - Chrome Carbide Coating over 316 Stainless Steel. Trim 60 - Cobalt Alloy Seat Surface with a Hard Chrome Over 316 Stainless Steel Ball.

Features: DynaSeal Deep Pocketed Seat. Positively Retained Stem with Adjustable Packing for Low Emission. Extended Service

Options: Pneumatic, Electric and Hydraulic Actuators, Solenoid Valves, Limit Switches.



ENDURO-BOND™

ENDURO-BOND™ is an engineered dry powder coating process for metal surfaces that provides a protective barrier against corrosion and abrasive wear.

ENDURO-BOND™ protection can help reduce the loss of equipment, production and labor costs resulting from the exposure of metal to corrosive environments.

ENDURO-BOND™ Features:

- Coating thickness from 1 - 4 mil
- High heat resistance to 800°F (427°C)
- Superior to plastics, epoxies and ceramics
- Thermal stability
- Chemical resistance
- Ductility and flexibility
- Impact and abrasion resistance
- FDA approved
- Passivates metal surfaces

ENDURO-BOND™ Coating Benefits

- Controlled application thickness allows threads to be coated
- Provides a tough hard surface to aid in the prevention of solids deposition
- Offers a cost effective alternative to all stainless products
- Field tested and proven to provide long term protection against corrosion in the toughest field conditions

CAMERON VALVES INDUSTRIAL MARKET/PRODUCT APPLICATIONS

Oil & Gas Refining	Pulp and Paper	Chemical Petro Chemical	Pharmaceuticals
• Main Steam • Reactor Isolation • Feedstock Production Process • Distillation Process • Amine Production • Dryers • Molecular Sieve • Furnace/Heat Transfer	• Digester Blow Valves • Liquor Handling Valves • Chlorine • Hot Water/Steam • Lime Mud Effluent • Cooling Towers • Demineralized Water	• Polyethylene • Polypropylene • Ethylene • Olefins • Industrial Gases • Polymer Process • Acids • Steam • Alkyls • Resins • EDS • Slurries	• Bulk Handling • Inert Gases • Argon/Nitrogen/Oxygen • Sanitary Process Systems • Cooling Towers • Steam
HVAC	**Power Generation Co-Gen**	**Food and Beverage**	**Mining**
• Cooling Towers • Chilled Water Systems • Steam • Hot Water Systems • Wastewater • Air Lines	• Fuel Gas • Bottom Ash • Steam • Water Circulation • Cooling Towers	• Breweries • Wineries • Wet Corn Milling • Sugar Refining • Whole Food Processing	• Acid Leaching Lines • Mill Water • Dewatering • Solvent Extraction • Raffinate
Waste & Waste Water Treatment	**Marine**	**Computer Chip & Silicon Manufacturing**	**Aircraft Fuel Systems**
• Gray Water • Solid Waste • Marine Tanks • Nitrogen • Chlorides	• Sea Chest • Ballast • Fire Water Systems • Fuel • Cargo	• Deionized Water • Process Water • Acids and Alkyls • Fluorides	• Fuel Tank Emergency Shutdown • Hydrant Systems • Underground Fuel Handling Equipment

CAMERON

VALVES & MEASUREMENT
3250 Briarpark Drive, Suite 300
Houston, Texas 77042
USA Toll Free 800 323 9160

For the most current contact and location information go to: www.c-a-m.com/valvesandmeasurement

Printed in Canada Revised 08/08-ION-5M CAM-VIPA