



BALL VALVES

FROM SIMPLE TO COMPLEX DESIGNS

- Sanitary Valves
- Cryogenic Valves
- Automated Valves
- Fusible Link Valves
- Cavity Filled Valves
- V-Port Control Valves
- Dribble Control Valves
- Instrumentation Valves
- Steam Jacketed Valves
- Flush Bottom Tank Valves
- Severe Service Metal Seats
- 3 And 4 Way Multi-Port Valves
- Pipeline Trunnion Type Valves
- Segmented Control Valves
- Custom Designed Ball Valves
- Electric, Pneumatic Actuators & Controls



A Guide To Manual And Automated Ball Valves

*VanZandt Offers A Complete Line of High Quality
Engineered Ball Valves For Your Most Demanding
Applications*

se habla español

www.vanzandtcontrols.com

Trunnion Type Ball Valves

VanZandt TM Series

Engineered Valves for Pipeline and Severe Service Applications

Designed and Fabricated for Pipeline Applications
Offering both forged 3pc and cast 1 & 2 pc body designs

Design Features

- Full compliance with API-6D
- ISO 9001, CE & NACE
- Grease sealant fitting standard
- Fully welded bodies designs
- Size range 1" - 42"
- ANSI Class 150, 300, 600, 900, 1500, 2500
- High temperature metal seated
- NACE requirements
- Piggable service
- Control ball valve & half ball
- 3-way designs
- Double Block & Bleed
- Both Cast & Forged
- **Custom Designs Welcome!**

3 Way 10"

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Segmented Control Valves

Sentinel Series

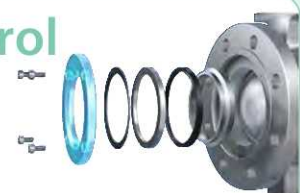
Precise Control



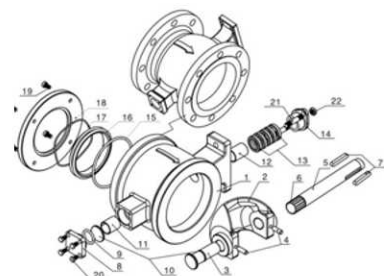
ISA S75.04
Rugged unibody Construction Available in
Flanged or Wafer 150, 300 & 600 LBs
Metal or Soft Seated
Size Range 3/4" - 24"



**Segmented Type
Control Valves**



**Exploded View
Sentinel Series**



High Performance-3 Piece Designs

Multi-Choice Series

This series is our most versatile design. Series 200/300 ball valves are offered in Threaded, Socket Weld, Butt Weld, Flanged End, and extended Weld Ends. The Valve center body is drilled and tapped for cap screw bolting to assure exact alignment.

Design Features

- 1500 WOG/150 WSP
- Live loaded stem
- V-Ring stem packing
- Anti-Static grounding device
- Size Range 1/4 Thru 12 inch
- I-SO-Mount automation pad
- Safety locking handle
- Wide range of seating materials
- V-Ball control valves
- Cavity fillers
- Carbon, stainless steel, Alloy 20 and many other special materials
- Secondary media containment
- Flush bottom tank



I-SO Mount



Cap Screws
Make the
difference

Model 310

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Multi-Choice Series

Weld - in - Place

Eliminate Valve disassembly when welded ball valves are required!

Design Features

- Safer Installation
- Reduced Liability
- Save Valuable Time
- Reduce Labor Cost
- Assures Fool - Proof Installation
- Socket & Butt-Weld Design



Shown with
optional stem
extension

Tri-Pro Series

High pressure 3 Piece Series built for demanding applications such as petrochemical, power, oil and gas, pulp and paper, and many other industrial process applications.

Both Full & Reduced Port Models

Design Features

- 1/4" thru 4" 2250 PSI/WOG
- 1/4" thru 1" 3000 PSI/WOG (Reduced Bore)
- Fire safe designed to API 607-7
- ANSI B16.34
- Protected seat design
- Captive seats & body seals
- Weld-in place socket & butt weld
- Flanged end ANSI class 300 and 600
- Metal seats - both class V & VI



Size 1 1/2"

I-SO Mount



Size 3"

Tongue & groove design ensures accurate alignment of body & end connections

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High Performance-3 Piece Designs

Pro-Max Series

Model 360

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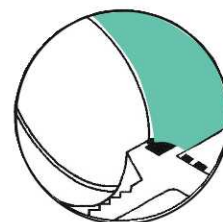
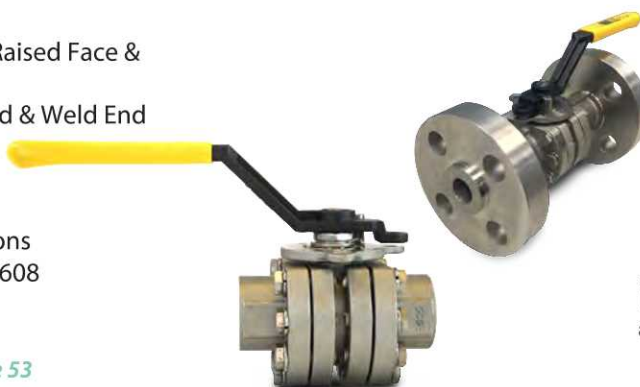


- VanZandt economical 3pc valve
- Reduced port
- Available with NPT or socket weld ends
- 2000/1500 WOG
- RPTFE seals
- Enclosed bolting
- ISO 5211 mounting pad
- Safety locking handle
- CE compliance
- Fire safe certified

Titan Series *Engineered Valves for High Pressure Applications*

- ANSI Class 900 & 1500 Raised Face & RTJ Flange
- 5000 PSI/WOG Threaded & Weld End Connections
- V-Port Control Option
- Devlon Seats Standard
- Peak & Metal Seat Options
- Fire Safe API 607-7, API 608

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Detail of protected seat and encapsulated body seal design. Isolates and protects both seats and seals from flow path. Helps prevent cold flow

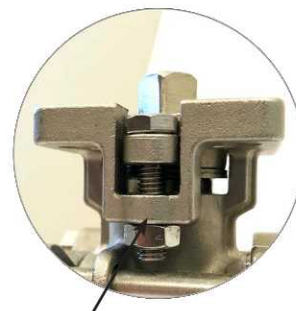
DM - Series

Direct Mount Options

Direct Connect Series is Tailored for low cost easy actuator mounting.

- ISO-5211 Top Works - Live Loaded Stem
- 2 PC body 1000 PSI/WOG DM85
- 2 PC body - 2000 PSI/WOG Fire Safe Design
- 2 PC Flanged End DMF150
- 3PC DM 110/120 1000 PSI/WOG
- 3 Way - DM - MPT 100
- Wafer DM - WF150
- Valve Sizes Range from 1/2" - 3"

Unique design provides easy adjustment of stem packing even when direct mounting of actuator is used.



Leak Detection Passage Prevents actuator damage in the unlikely event of stem leakage



V Ball Options Available

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Flanged End Ball Valves

Full-Flo Series Full Bore

Uni-Flo Series Standard Bore

I-SO Mount

VanZandt offers a complete range of Flanged End Ball Valves in both floating and trunnion type designs. Available in both carbon, stainless steel, Alloy 20, duplex stainless steel and many other special materials.

Design Features

- ISO type mounting pad
- Safety locking handle
- Anti-Static grounding device
- ANSI Class, 150, 300, 600
- Special metal seats meeting class V & VI
- Cavity fillers size 1/2 thru 12 inch
- Complete size range 1/2 thru 14 inch
- Fugitive Emissions Per - ISO - 15848-1
- V-Ball control valves
- Fire Safe-API 607 and NACE requirements
- API 6D logo



2PC Full Bore
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EC Series Low Cost Design



Model F150 Full Port
Tech Bulletin page 58

EZ Series

2 PC Reduce Bore
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Petro Series F60
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UNI-FLO Series



1PC SF150 Reduced Bore
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API 6D Certified Floating Ball Valves

Media Containment

Award Winning Product

Multi Purpose Secondary Containment

- Fugitive emissions
- Maintenance Repair
- High Temperature Applications

Upgrade standard Ball Valves with a simple low cost device.

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Multi-Port 3 & 4 Way Ball Valves

TRANS~Flo SERIES

VanZandt offers a wide selection of multi-port ball valves designed to simplify piping systems, eliminating the need for 2 or more standard valves. The valve has either one or 2 pc ball/stem with a trunnion type Ball Support, T, L, or LL Flow Plans. I-SO-Mount Actuator mounting pad is **standard**.



Model

MPF15
MPF30
MPT60
MPT30
MPC15
MPF154

Type

150 LB. flanged end
300 LB. flanged end
600 LB. flanged end
Threaded end
Tri-Clamp ends
4-Way

Size Range

3/4 thru 12"

3-Way trunnion designs also available



Model MPF 15

ISO Mount



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MPT-100 Series

- Stainless steel
- 3 way diverting or mixing
- Standard port design
- Threaded ends / Tri-Clamp
- Working pressure 800/1000 PSI/WOG
- Optional Brass T + L ports model # 355/365
- Size Range 1/4" – 3"



3 & 4 Way

Model MPT 100

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Tri-Pro Bottom Flow Series

- 3-Way diverter design
- 1500 WOG fire safe type
- Threaded / SW / BW / Flanged
- Size Range 1/2" – 2 1/2"



Model 3W-HPF

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Ball Porting



Multiple
Flow Plans

Bottom Entry Series

- 3-Way diverter design
- Ideal replacement for plug valves
- Class 150/300, size 2", 3", 4", 6"



Model MPF155

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Many Different Flow Patterns Are Available

Unique Application Design Ball Valves

Cryogenic Design Ball Valves



**6" F150
Cryo Top**

VanZandt offers a complete line of cryogenic ball valves.

- Available cryo bonnet tall stems
- One Piece High Strength stems
- Reaching temp. down to -320°F
- Flanged end 150/300/600
- NPT / SW / BW / 3PC Flanged End Design Ball Valves
- Sizes 1/4" – 18"

CRYO-SERIES



**1 1/2" Tri-Pro
HPF with
Cryogenic Stem
Extension**

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Flush Bottom Tank Valves

Valve tank pad is welded flush to the tank bottom for unrestricted drainage of tank media. Available with threaded, SW / BW / flanged end 150/300

Tank pad All 316L-SS

Size Range 3/4" – 8"



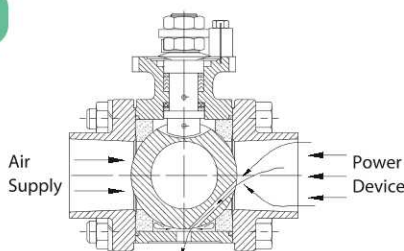
Model TK300

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Safety Exhaust 3PC Valve

Offers downstream air pressure "blow-down" design valve with complete service-ability without disturbing the piping system.



Spring Return Handle

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Model S350

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I-SO Mount



Model S370

Multi Choice Sanitary Designs

3PC sanitary ball valves with true tube bore clean-in-place, purge ports.

20-25 RA standard.

Electropolish, solution clean & bagged, optional.

All wetted parts SS316L.

Cavity fillers available.

In-Line orbital welding.

Sizes 1/2" – 6"



Industrial Process Threaded End Designs

Fusion Series

- The Fusion series seal-welded high pressure valves incorporate safety. All welded body assures that the 2pc body can never be separated.
- Anti-Static, fire safe, API 608, Steam seals, Locking handle.
- ISO 5211 Actuator Mounting



- Model T23 2pc Body
- Model S23 1pc Body
- 2000PSI / 1500PSI
- 250 SWP
- Size 1/4" – 4"

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Flo Tron and Flo Tron II Series

- Rugged construction - Cast body
- All welded body
- This heavy duty valve is built for hydraulic and petrochemical applications.
- S3000 - 3000 WOG / S6000 - 6000 WOG
- Fire safe designed to API 607-4
- Anti-Static Grounding



Model S3000

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ONMI Series

- 25/carbon/PTFE Seats
- 175 PSI/SWP
- 2000 WOG



Model T12

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- UNI-body Design
- Outstanding Low cost High Pressure Valve
- Fire Safe Certified API 607-4
- Double reduced bore fire safe certified
- For higher pressure application
- 316SS and Carbon Steel
- Economical Solution
- 1-pc body design
- Size Range 1/2" - 2"

Econo-Groove Series

Design Features

- 3 PC Body Design
- All Stainless Steel Design
- 1000 PSI/WOG
- Sizes From 1 1/2" to 6"
- Full Port Design

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For More Info



Size 4"

Model 190SS

I-SO Mount

Kompact Series

- Full port - size - 1/2" – 6"
- Full flanged wafer compact design
- Cavity filled
- Steam jacket
- V-Port control

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API608/API6D Compliant

**Custom Manufactured
Ball Valves
Special Alloys**

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V-BALL CONTROL VALVES

V-Port Control Series

Most all of VanZandt's High Performance standard ball valves are now available with custom designed v-cut options such as: 15°, 30°, 60°, 90° and 120°



- Flanged Type 150, 300, 600 ANSI Class
- Wafer Design 150 LB
- Control-Set 2PC - 1000 WOG
- Segmented Design 150, 300, 600
- 3PC All Types 1000, 2250, 5000 WOG



VanZandt's control ball valves feature a solid stainless steel ball, not a seat insert like many others.

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VanZandt's Automation Brands



Economy Designs From VanZandt

Econoflo-Series

- 2 Piece Design Valves
- Reduced Port
- 1000 - MAWP/WOG
- Male X Female Connections
- 1/4" - 2"

1/4" T45SS



1/4" T40MxF



1 1/4" T45SS



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hem - Series

- 3 Piece Body - Full Port Design
- Threaded, Socket-Weld or Butt Weld Ends
- ISO Mounting Pad
- 1/2" - 4" Sizes Available
- 1000 MAWP/WOG
- **UL Certification Available**



3" 120



2" 110



1/2" 110

Model 110 Tech Bulletin page 33-17

Econoflo-Series

- T80 ball valves offer an economical solution for low cost full port stainless steel 316SS/304SS
- 1000 WOG size 1/4" - 3"



Model T80



Model T82

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Forged Brass - Threaded & Solder Ends

- T51BZ ball valves are ideal utility valves for low pressure applications.
- Size 1/4" - 4"
- 600 WOG - 150 WSP
- FM / UL / SR certificates
- Lead Free Designs
- Locking Options



Model T92BZ

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Commercial-Series

- T70 - 2PC standard port
- 2000/1500 WOG
- Size 1/4" - 3"



Model T70

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MaxGear Manual Gear Operators

- Fully Lubricate
- Weather Proof Housing
- Grease Fittings Standard
- Mounting Dimensions to ISO 5211
- Locking Device Available



Metal Seated Ball Valves

Engineered Valves for Severe Service

Metal Seated Valves

Severe Service Valves Tailored to Your Applications

DESIGN FEATURES

- Flanged Type 150, 300, 600 ANSI Class
- Wafer Design 150 LB
- Control-Set 2PC - 1000 WOG
- Segmented Design 150, 300, 600
- 3PC All Types 1000, 2250, 5000 WOG
- Uni and Bi Directional Flows

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Surface treatments and coatings to withstand abrasion resistance.

- Tungsten Carbide • Chromium Carbide • Hard Chrome • Forged Stainless Steel Balls

High Temperature Designs up to 1000°F



Titan Series



Tri-Pro Series



Full-Flo Series



Sentinel Series

Steam Jacket Series

Flo-Tite's valve jackets are designed for chemical service where absolute control of fluids is required within a specified temperature range. With special preparation, these valves can be used for severe and hazardous chemical service.

DESIGN FEATURES

- Bolt on Jacket
- Clamp on Jacket
- Full Jacket
- Compact Full Jacket

3-Way Bolt on Type



**2" Carbon Steel F150
with Steam Jacket**



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offers a complete package of pneumatic, hydraulic & electric actuators. All types of controls & accessories for a vast number of special automated applications

Air-Con Series

Designed for quarter-turn ball, butterfly & plug valves as well as damper applications. Incorporating the latest technology in actuator design.

- Hard anodized aluminum body
 - Namur interface & ISO5211 Mounting
 - 5° - travel stops, optional 90° stops
 - Torque range up to 1,565,200 in-lbs
 - Optional Stainless Steel & Nickel Infused Available
- Specs :CE, ISO, ATEX, SIL3**



Smart Positioner VAC

Hart, Fieldbus and Profibus



VRC Series All Specials



High Chemical Resistance Housing

Solenoid Valve

Direct Design



304 Stainless

Easy-Link ISO Mounting Hardware

EASY LINK



Set Screws Locking

Electric Actuators

PRO-torq
electric actuators



All Types & Designs

Max-Seal Butterfly Valves

VanZandt also offers a wide variety of Max-Seal Butterfly Valves.

MAX SEAL
Valves & Controls



VANZANDT

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Print date 2018/01