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Series 44
3-Piece Regular Port

Features
• 3 Piece Regular Port design Ball Valve
• ASME class 600 design
• Meets ASME B16.34 requirements (consult Pressure/Temperature Charts)
• “Live loaded” stem seal design
• Multiple soft and metal seat options
• Tight Shut off and Bi-Directional sealing
• Cavity Filled Designs
• Special Service Applications: UL, FM, USCG and other Special service approvals
• Locking Device as standard

Sizes
• ¼” to 2”
• Screwed end
• Socket weld
• Butt weld, Solder ends (Brass only)

Materials
• Carbon Steel
• Stainless Steel
• Brass
• Monel
• Alloy 20
• Hastelloy-C

Standards
• ASME B16.34
• S.E. to ASME B 2.1
• S.W. to ASME B 16.11

Get more information:
Product brochure:
• WCABR1050

IOM:
• WCENIM2030

See page 2.

Series 59
3-Piece Full Port

Features
• 3 Piece Full Port design Ball Valve
• ASME class 600 design
• Meets ASME B16.34 requirements (consult Pressure/Temperature Charts)
• “Live loaded” stem seal
• Multiple soft and metal seat options
• Tight Shut off and Bi-Directional Sealing
• Cavity Filled Designs
• Full Port design minimizes pressure drop across the valve and maintains a high efficiency, reducing pumping cost.
• Locking Device as standard

Sizes
• ¼” to 2”
• Screwed end
• Socket weld
• Butt weld, Solder ends (Brass only)

Materials
• Carbon Steel
• Stainless Steel
• Brass
• Monel
• Alloy 20
• Hastelloy-C

Standards
• ASME B16.34
• S.E. to ASME B 2.1
• S.W. to ASME B 16.11

Get more information:
Product brochure:
• WCABR1050

IOM:
• WCENIM2046

See page 2.

Series 45/59
3-Piece Larger Sizes

Features
• Large-diameter, 3 Piece design Ball Valve
• ASME Class 300 design
• Three piece design allows valve to act as a valve and union
• Large diameter bore for O.E.M. equipment and packaging systems
• Compact design with multiple options
• Tight Shut off and Bi-Directional sealing
• Cavity Filled Designs

Sizes
• 45 Series 2½” to 6”
• 59 Series 2½” to 4”
• Screwed end
• Socket weld
• Butt weld

Materials
• Carbon Steel
• Stainless Steel

Standards
• ASME B16.34
• S.E. to ASME B 2.1
• S.W. to ASME B 16.11

Get more information:
Product brochure:
• WCABR1050

IOM:
• WCENIM2046

See page 2.
**Series 51/52**
**Flanged Regular Port**

**Features**
- Flanged Regular Port Unibody Design
- ASME class 150/300
- Tight shut-off
- "Live loaded" stem seal
- Multiple soft and metal seat options
- Wide variety of Body, Seat and Seal materials means dependable, high cycle control on Steam, Petroleum products, Chemicals and abrasive liquids
- Pre-drilled mounting holes for actuation
- Tight Shut off and Bi-Directional sealing

**Sizes**
- 1/2” to 10” Flanged
- ASME 150# and 300# class

**Materials**
- Carbon Steel
- Stainless Steel

**Standards**
- ASME B16.34

---

**Series F519/F529**
**Flanged Full Port**

**Features**
- Flanged Full Port Unibody Design
- ASME class 150/300
- ISO 5211 mounting
- "Live loaded" stem seal
- Multiple soft and metal seat options
- Full Port design minimizes pressure drop across the valve and maintains a high efficiency, reducing pumping cost.
- Wide variety of Body, Seat and Seal materials means dependable, high cycle control on Steam, Petroleum products, Chemicals and abrasive liquids
- Firesafe by design

**Sizes**
- ½” to 1½”
- ASME 150# and 300# class

**Materials**
- Carbon Steel
- Stainless Steel

**Standards**
- ASME B16.34
- API 607 Fire Test

---

**Series F819/F829**
**Flanged Full Port**

**Features**
- Flanged Full Port Split Body Design
- ASME class 150/300
- ISO 5211 mounting
- Full Port design minimizes pressure drop across the valve and maintains a high efficiency, reducing pumping cost.
- Wide variety of Body, Seat and Seal materials means dependable, high cycle control on Steam, Petroleum products, Chemicals and abrasive liquids

**Sizes**
- 2” to 8”
- ASME 150# and 300# class

**Materials**
- Carbon Steel
- Stainless Steel

**Standards**
- API 6D
- API 607 4th Edition
- ASME B16.34
- NACE MRO1-75

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Get more information:
Product brochure:
- WCABR1013

IOM:
- WCENIM2014 (for small valves)
- WCENIM2015 (for large valves)
- WCENIM2052 (for FM)

See page 2.

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Get more information:
Product brochure:
- WCENBR0032

IOM:
- WCEIM0519

See page 2.

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Get more information:
Product brochure:
- WCENBR0032

IOM:
- WCENIM0013 (for std. valve)
- WCENIM2057 (for fugitive emission)

See page 2.

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**Attributes**
- **Wafer Design**
- **Designed for lightweight.**
- **Symmetrically balanced to avoid side loads from actuation 40-60% less weight than conventional ball valves**
- **Suitable for Steam processes including vegetable peelers, Steam ejectors, Distilleries, and more.**

**Sizes**
- 3” to 6”
- ASME 150# and 300# class
- Rated at 720 CWP

**Materials**
- Bronze
- Carbon Steel
- Stainless Steel
- Ductile iron

**Get more information:**
- **Product brochure:** WCABR1041
- **IOM:** WCENIM2015
- See page 2.

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**Features**
- Multi-port Diverter Valves
- Three-piece or flanged design
- Bottom entry or side entry
- Full port or regular port
- 90 or 180 degree operation
- The D51 cast flanged have similar operations as the D44/D4 but for larger sizes.
- The D44/D4 3-piece diverter valve is designed to accept media through a bottom inlet port and direct it to either of two outlet ports
- ASME 150 flanges
- The 18/19 Series is extremely adaptive.
  - Up to 5 ports
  - Multiple seat and body materials
  - Regular or full port
- Optional fugitive emission design
  - Class 150 or 300
- Screwed, socket or butt weld and slip-on flanges

**Sizes**
- ½” to 2” for D44/D4 3-piece valve
- 2” to 8” for D51 Flanged valve
- 1” to 6” for Series 18 & 19 valve

**Materials**
- Carbon Steel
- Stainless Steel

**Standards**
- ASME B16.34
- S.E. to ASME B 2.1
- S.W. to ASME B 16.11
- API 607 Fire Test

**Get more information:**
- **Product brochure:** WCABR1052
- **IOM:** WCENIM2030 (for Miser)
  - WCENIM2015 (for large valves)
  - WCENIM0009 (for 18/19)
- See page 2.
Series CL94, CL44, CL 51/52
Chlorine

Features
• Special for Chlorine Service
• Liquid and gas
• Relief vent in ball vents to the high pressure side
• Constructed in accordance with the recommendations of the Chlorine Institute including special testing, cleaning and packaging
• Available with 94 FEM stem design
• Assembled in Class 1000 clean room
• Pressure classes to ASME 600

Sizes
• ½” to 2” 3 piece design
• Screwed end
• Socket weld
• Butt weld
• ½” to 4” Flanged design

Materials
Carbon Steel/Monel Trim

Standards
• ASME B16.34
• Chlorine Institute Pamphlet 6
• MSS-SP-72, B31.1, B31.3

Get more information:
Product brochure:
• WWCABR1039

IOM:
• WCENIM2003 (for series 94)
• WCENIM2014 (for small 51/52)
• WCENIM2015 (for large 51/52)
• WCENIM2030 (for Miser)

See page 2.

Series AF44, FZ44, AF51/52, FZ51/52, FM51/52, AF94, FZ94, F519/529, F819/829
Firesafe

Features
• Fire-Safe Valves
• Ensure operational integrity before, during, and after a fire.
• Tight Shut off, Anti static, no external leakage
• Available with 94 FEM stem design
• Pressure classes to ASME 600

Sizes
• ½” to 2” 3 piece design
• Screwed end
• Socket weld
• Butt weld
• ½” to 10” Flanged design

Standards
• ASME B16.34
• API 607 Fire Test
• EXES 3-14-1-2A
• FM 7440

Materials
• Brass
• Stainless Steel

Standards
• ASME B16.34
• API 607 Fire Test

Get more information:
Product brochure:
• WCABR1029

IOM:
• WCENIM2003 (for series 94)
• WCENIM2014 (for small 51/52)
• WCENIM2015 (for large 51/52 & 151/301)
• WCENIM2020 (for series 818/828)
• WCENIM2030 (for Miser)
• WCENIM2047 (for series 82/83)
• WCENIM2052 (for 51/52 FM)
• WCENIM2054 (for O&G shutoff FM)
• WCENIM2057 (for fugitive emissions)

See page 2.

Series C4, C44, and C51
Cryogenic

Features
• Cryogenic Services
• High-performance, shutoff valves for intermittent and continuous flow applications with temperatures to -425°F
• Positive Ball/Cavity relief with V3 vent hole
• Zero Leak packing
• Effective Bonnet Extensions
• Valves designed for low thermal stress, automation and Fire Safety
• Assembled in Class 1000 clean room
• Pressure classes to ASME 600

Sizes
• ½” to 2” 3 piece design
• Screwed end
• Socket weld
• Butt weld
• ½” to 6” Flanged design

Materials
• Brass
• Stainless Steel

Standards
• ASME B16.34
• API 607 Fire Test

Get more information:
Product brochure:
• WCABR1040

IOM:
• WCENIM2006 (for R12/R6 or earlier)
• WCENIM2038 (for std. valve)

See page 2.
**Series WK70 High Purity**

**Features**
- High Purity, Forged F316L - Tube bore
- Class 100 Clean Room Assembly
- 20Ra interior surface finish
- Controlled ferrite <1%
- Controlled sulfur for orbital welding
- CMTRs

**Sizes**
- ½’ to 2’ 3 piece design
- Extended butt weld
- Hygienic Clamp

**Materials:**
- ASTM A182 F316L, ASTM A479
- Interior Surface Finish: 20Ra standard, 15Ra electropolished
- Seats/Seals: PTFE, Polyfill

**Standards**
- ASME BPE
- FDA(21CFR)
- USP VI
- USDA

**Applications**
- Pharmaceutical/Biotech, microelectronics, steam distribution and distillation, fermentation, lyophilization, food and beverage

**Get more information:**
- Product brochure: WCABR1036
- IOM: WCAIM2018
  - See page 2.

---

**Series WK74 High Purity**

**Features**
- High Purity, Cast 316L - Tube bore
- Class 100 Clean Room Assembly
- 20Ra interior surface finish
- Controlled ferrite <5%
- Controlled sulfur for orbital welding
- CMTRs standard

**Sizes**
- 3’ to 4’ 3 piece design
- Extended butt weld
- Hygienic Clamp

**Materials:**
- ASTM A351-CF3M, ASTM A479
- Interior Surface Finish: 20Ra standard, 15Ra electropolished
- Seats/Seals: PTFE, Polyfill

**Standards**
- ASME BPE
- FDA(21CFR)
- USP VI
- USDA

**Applications**
- High purity and aseptic processes, sterile steam, high purity water, fermentation, lyophilization, food processing

**Get more information:**
- Product brochure: WCABR1037
- IOM: WCAIM2018
  - See page 2.

---

**Series TB59 Tank Bottom**

**Features**
- Flush, Tank-bottom Drain valve
- For Biotech, Pharmaceutical, Food, Chemical and Cosmetic Processing
- Worcester 3 pc design advantages with a tank bottom end piece design.
- Available prepared for O2 and vacuum services
- Pressure classes to ASME 300

**Sizes**
- 1” to 4” 3 piece design
- Screwed end
- Socket weld, Butt weld

**Materials:**
- ASTM A182 F316L, ASTM A479
- Interior Surface Finish: 20Ra standard, 15Ra electropolished
- Seats/Seals: PTFE, Polyfill

**Standards**
- ASME BPE
- FDA(21CFR)
- USP VI
- USDA

**Applications**
- Pharmaceutical/Biotech, microelectronics, steam distribution and distillation, fermentation, lyophilization, food and beverage

**Get more information:**
- Product brochure: WCENBR1028
- IOM: WCENIM2001
  - See page 2.
Series 4, H44 and PT
High-per Mizer

Features
• High-Pressure Valves
• Resilient seated valves for High pressure and
  High Temperature applications
• Used in Steam, Hydraulics, gasses and fluids and CNG

Sizes
• ½” to 2” 3 piece design
• Screwed end
• Socket weld, Butt weld
• ½” to 6” Flanged design
• 3” to 6” Wafer design

Standards
• ASME B16.34
• S.E. to ASME B 2.1
• S.W. to ASME B 16.11
  (Consult product catalog)

Get more information:
Product brochure:
• WCABR1051

IOM:
• WCENIM2015 (for large 51/51)
• WCENIM2030 (for Miser)

See page 2.

Series H71
Hydromizer

Features
• High-Pressure Valves
• Resilient seated valves for High pressure and
  High Temperature applications
• ASME Class 1500 (1” to 2”)
• ASME Class 2500 (¼” & ½”)
  (Consult Brochure for PT curves and limitations)
• Used in Steam, Hydraulics, gasses and fluids, CNG and Subsea

Sizes
• ½” to 2” 3 piece design
• Screwed end
• Socket weld, Butt weld

Standards
• ASME B16.34
• S.E. to ASME B 2.1
• S.W. to ASME B 16.11
  (Consult product catalog)

Get more information:
Product brochure:
• WCABR1051

IOM:
• WCENIM2024

See page 2.

Series CPT
Control Valve

Features
• The CPT is a characterized seat Control Valve
  with a revolutionary design
• Precision Control, high capacity
• Zero external leakage
• High Cycle Capacity
• Custom-cut Characterized Seats
• High Rangeability
• Efficient Shearing Action

Sizes
• ½” to 2” 3-piece design
• Screwed end
• Socket and Butt weld
• ½” to 4” Flanged design
• 3” to 6” Wafer design
• Pressure classes to ASME 600
  (Consult Literature)

Standards
• ASME B16.34
• S.E. to ASME B 2.1
• S.W. to ASME B 16.11
  (Consult product catalog)

Get more information:
Product brochure:
• WCABR1001

IOM:
• WCENIM2009 (for series 94)
• WCENIM2040 (for series 44,51,52)

See page 2.
## Series 36 Electric Actuator

**Features**
- Compact size
- Permanently lubricated and sealed gear train
- Thermal overload protection
- Simple mounting and installation
- Additional output switch
- Solid-State timer option for automatic cycling

**Torque Range**
- 150 in-lb and 550 in-lb output torques

**Temperature Range**
- 0 F to 150 F

**Supply Voltage**
- 120, 240 VAC

**Enclosure**
- NEMA 1, 4, 4X

**Applications**
- Industrial quarter-turn ball valves

**OEM installations**
- Air Drying Equipment
- Sampling systems
- Compressor installations
- Condensate draining
- Tank draining

---

## Series 75 Electric Actuator

**Features**
- Two year warranty
- Baked epoxy coated
- Permanently lubricate gear train
- Manual override
- Thermal overload protection
- Reversible rotary operation

**Optional Features**
- Extended duty cycle motors
- Fail safe capability
- Positioners and P.I.D. controllers
- Hard anodised coating

**Torque Range**
- 150 - 3000 in-lbs

**Temperature Range**
- -40 F to 150 F

**Supply Voltage**
- 120, 240 VAC, 24 VDC

**Enclosure**
- NEMA 4, 4X

**Hazardous Area Classification**
- Class 1, Div 1, Groups B, C, D
- FM 7411

**Applications**
- Oil & Gas Safety Shut Off
- Tank Farms
- Water/Waste Water
- Burner Management
- Oil Field Steam Generators
- Dampers

---

## Series F72 Electro-Hydraulic Actuator

**Features**
- Fail-safe on power failure
- Fast moving valve closure
- Long operational life
- No hydraulic reservoir mounts in any position
- No clutches, battery packs or clock springs
- Simple 2-wire control
- Two Year Warranty
- FM Approved
- Cost-effective

**Torque Range**
- Up to 900 in-lbs (end of spring)

**Temperature Range**
- 0 F to 150 F

**Supply Voltage**
- 120, 240 VAC, 24 VDC

**Enclosure**
- NEMA 4, 4X

**Hazardous Area Classification**
- Class 1, Div 1, Groups B, C, D
- FM 7411

**Applications**
- Oil & Gas Safety Shut Off
- Tank Farms
- Water/Waste Water
- Burner Management
- Oil Field Steam Generators
- Dampers

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### Get more information:

**Product brochure:**
- WCABR1006 (36 Series)
- WCABR1007 (36T Series)

**IOM:**
- WCAIM2007

See page 2.
Series 34 Pneumatic Actuator

Features
- Compact Scotch-Yoke design
- Baked epoxy coating
- Minimum air consumption
- Adjustable speed control
- Single external air and electrical connections
- Fail-safe spring return option
- Built-in solenoid air pilot
- High temperature option

Torque Range
- Up to 1000 in-lbs @ 100 psi input

Temperature Range
- -25 F to 160 F, Optional to 250 F

Supply Voltage
- 12, 24 VDC, 24, 120, 240, 480 VAC

Enclosure
- NEMA 1, 4, 4x

Hazardous Area Classification
- Class 1, Div 1, Groups A, B, C, D

Applications
- Industrial Qtr-Turn valve automation
- Automative, OEM, Chemical & Water

Get more information:
- Product brochure: WCENBR1004
- IOM: WCAIM2008

See page 2.

Series F39 Pneumatic Actuator

Features
- High Performance, High Cycle Design
- Two-Year warranty
- Twin piston, double rack & pinion
- Extruded, anodized aluminum body
- NAMUR, ISO mounting
- Polished stainless steel guide rods
- Multi-spring force transfer
- End cap air supply ports
- End mount solenoid/switch accessories
- Limit stops

Torque Range
- Up to 60,000 in-lbs @ 120 psi input

Temperature Range
- -40 F to 212 F; (high temp option 300F)

Supply Voltage
- 12, 24 VDC, 24,120, 240 VAC

Pressure Range
- 30-120psi DA, 40-120psi SR

Enclosure
- NEMA 1, 4, 4x

Hazardous Area Classification
- Class 1, Div 1, Groups A, B, C, D

Applications
- Chemical, Petrochemical & Refining,
- Power, Oil & Gas, Food & Beverage

Get more information:
- Product brochure: WCENBR1003
- IOM: WCAIM2036

See page 2.

ACCESS Pneumatic Actuator

Features
- Integral solenoid & position switch
- Single electrical connection
- High flow spool valve
- Manual override and speed control
- No mounting brackets
- Diagnostic LED circuit board
- Digital bus networks

Torque Range
- Up to 60,000 in-lbs @ 120 psi input

Position Switch
- SPDT/DPDT, Gold Contact, Proximity

Temperature Range
- 0 F to 160 F

Supply Voltage
- 12, 24 VDC, 24,120, 240 VAC

Pressure Range
- 40 to 120 psi

Enclosure
- NEMA 4, 4x

Hazardous Area Classification
- Class 1, Div 1, Groups B, C, D
- Intrinsically Safe, NRTL/C approved
- UL CSA approved

Applications
- Digital Bus Networks, Chemical,
- Petrochemical & Refining, Oil & Gas,
- Food & Beverage, Pharmaceutical

Get more information:
- Product brochure: WCABR1024
- IOM:
- WCAIM2027 (standard)
- WCAIM2028 (intrinsically safe)
- WCAIM2023 (DeviceNet)
- WCAIM2032 (AS-i)

See page 2.
### Series ELK39
#### End Mounted Switch Box

- **Features**
  - End mount versus top mount
  - Reduced assembly height
  - Reduced installation envelope
  - Eliminates mounting kits
  - Multiple switch options
  - Aluminum enclosure
  - CSA & FM Approvals

- **Housing Material**
  - Die cast aluminum, epoxy coated

- **Enclosure**
  - NEMA 4, 4X; CSA approved

- **Hazardous Area Classifications**
  - Class1, Div1, Groups C,D
  - Class1, Div2, Groups E,F, G

- **Position Switch**
  - SPDT/DPDT, Gold Contact, Proximity

- **Temperature Range**
  - 0 to 160 F

- **Switch Ratings**
  - SPDT-15 Amp, 125, 250, 480 VAC; 1/2A, 24 VDC
  - DPDT-10Amp, 125, 250 VAC; 0.3A,125 VDC
  - Proximity Sensor - (5-200mA, 20-140 VAC, 10-140 VAC, UL listed, CSA Certified)

- **Applications**
  - Remote position indication
  - Relay device for pumps
  - Alarms and indicator lights
  - Industrial, Chemical, Petrochemical installations

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### Series WWS/WWM
#### Top Mounted Switch Box

- **Features**
  - UltraDome visual position indicators for high contrast, wide angle viewing
  - Compliance to NAMUR VDI/VDE 3845 mounting specifications eliminates coupler and maximizes interchangeability
  - Captive stainless steel cover screws
  - Prewired multipoint terminal strip
  - Quick-Set spring loaded cams are extra wide and splined to permit tool-free limit switch calibration
  - Extensive switch offering for a wide range of applications including mechanical, proximity and solid state feedback options

- **Description**
  Provides a compact and economical globally certified weatherproof, non-incendive or intrinsically safe package for visual and remote electrical indication of valve position.

- **Housing Material**
  - Die cast aluminum; dichromate conversion undercoat; electrostatic powder top coat
  - Engineered resin enclosure; 25-33% fiberglass-filled for harsh, corrosive applications

- **Enclosure**
  - IP66, IP67, NEMA 4, 4x

- **Hazardous Area Classifications**
  - Intrinsically Safe ATEX II 1G Ex ia IIC T4/T5/T6
  - Intrinsically Safe cCSAus, Cl. I, Div. 1, Gr. A,B,C,D, Cl. II, Div. 1, Gr. F,G, Cl. III T3
  - 1, Gr. A,B,C,D, Cl. II, Div. 1, Gr. F,G, Cl. III T3
  - Non-Incendive cCSAus, Cl. I, Div. 2, Gr. A,B,C,D, Cl. II, Div. 2, Gr. E,F,G T3*  

- **Get more information:**
  - Product brochure: WCENBR0135
  - IOM: WCENIM0135
  - See page 2.

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### Series WPS/WPM
#### Top Mount Switch Box

- **Features**
  - UltraDome visual position indicators for high contrast, wide angle viewing
  - Compliance to NAMUR VDI/VDE 3845 mounting specifications eliminates coupler and maximizes interchangeability
  - Captive stainless steel cover screws
  - Prewired multipoint terminal strip
  - Quick-Set spring loaded cams are extra wide and splined to permit tool-free limit switch calibration
  - Extensive switch offering for a wide range of applications including mechanical, proximity, solid state and analog feedback options

- **Description**
  Engineered resin enclosure provides excellent protection in harsh, corrosive environments. Globally-certified weatherproof, non-incendive or intrinsically safe package for visual and remote electrical indication of valve position.

- **Housing Material**
  - Engineered resin enclosure; 25 - 33% fiberglass-filled for harsh, corrosive applications

- **Enclosure**
  - IP66, NEMA 4, 4x

- **Hazardous Area Classifications**
  - Intrinsically Safe ATEX II 1G Ex ia IIC T4/T5/T6
  - Increased Safety ATEX II 2G Ex e mb IIC T6
  - Intrinsically Safe IECEX Ex ia IIC T4/T5/T6
  - Intrinsically Safe cFMus/cCSAus, Cl. I,II,III, Div. 1, Gr. A,B,C,D,E,F,G T5
  - Non-Incendive cFMus/cCSAus, Cl. I, Div. 2, Gr. A,B,C,D, Cl. II, Div. 2, Gr E,F,G T5

- **Get more information:**
  - Product brochure: WCENBR0134
  - IOM: WCENIM2075
  - See page 2.

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Ives Equipment  
www.ivesequipment.com  
(877) 768-1600
**Series WXCL Top Mounted Switch Box**

**Features**
- UltraDome visual position indicators for high contrast, wide angle viewing
- Compliance to NAMUR VDI/VDE 3845 mounting specifications eliminates coupler and maximizes interchangeability
- Captive stainless steel cover screws
- Prewired multipoint terminal strip
- Quick-Set spring loaded cams are extra wide and splined to permit tool-free limit switch calibration
- Extensive switch offering for a wide range of applications including mechanical, proximity, solid state, and analog feedback options

**Description**
- Provides a heavy-duty and rugged globally certified explosion-proof package for visual and remote electrical indication of valve position

**Housing Material**
- Die cast aluminum; dichromate conversion undercoat; electrostatic powder top coat

**Enclosure**
- IP66, IP67, NEMA 4, 4X, 7 and 9

**Hazardous Area Classifications**
- Flameproof ATEX II 2GD Ex d IIB T5, Ex d IIC T4
- Flameproof IECEx Ex d IIIB T4 Gb
- Explosion-Proof cCSAus Cl. I, Div. 1, Gr. C & D, Cl. II, Div. 1, Gr. E,F,G, Cl. III, T3
- Non-Incendive cCSAus Cl. I, Div. 2, Gr. A,B,C,D T3
- Intrinsically Safe FM(US/CAN)/cCSAus, Cl. I, II, III, Div. 1, Gr. A,B,C,D,E,F,G T5
- KOSHA Ex d IIB T5
- INMETRO Ex d IIB T5 Gb, Ex tb IIIC T100 °C Db IP66

**Get more information:**
- Product brochure: WCENBR1057
- Product Specification: WCENPS1056
- IOM: WCENIM2076
- See page 2.

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**Series DS/DM UltraSwitch™ Top Mounted Switch Box**

**Features**
- Tool-free Quick-Set™ cams
- Switches available in a wide range of options
- Easily accessed pre-wired terminal strip
- Minimum two open terminals are provided
- Housing of aluminum or corrosion resistant stainless steel
- Optional 4-20mA feedback signal

**Description**
- Compact housing in aluminium or corrosion resistant stainless steel can be directly and easily mounted onto actuators for both rotary and linear indication and can be used as a junction box for direct connection of solenoid valves. Up to three cable entries and pre-wired switches to enable easy installation.

**Housing Material**
- Aluminum
- Stainless steel

**Enclosure**
- IP66, NEMA 4, 4X, 7 and 9

**Hazardous Area Classifications**
- Flameproof ATEX II 2G Ex d IIC T4 Gb, Ex tb IIIC T113 °C Db IP66
- Flameproof IECEx Ex d IIIC T4 Gb
- Explosion-Proof CSAus Cl. I, Div. 1, Gr. B,C,D, Cl. II, Div. 1, Gr. E,F,G, Cl. III T4
- Explosion-Proof CSAus Cl. I, Div. 1, Gr. A,B,C,D, Cl. II, Div. 1, Gr. E,F,G, Cl. III T4

**Get more information:**
- Product brochure: WCENBR0136
- IOM: WCENIM0136
- See page 2.

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**Aviator BUSwitch Top Mount Integrated Valve Controller**

**Description**
- Designed for use with pneumatic rotary industrial valve actuators in hazardous locations. With the same features as the UltraSwitch, the Aviator provides actuator/valve control by receiving a direct solenoid voltage signal. Also provides remote indication of open and closed valve positions by completing separate electrical circuits. The BUSwitch provides actuator/valve control by receiving a direct solenoid voltage signal. Also provides remote indication of open and closed valve positions by completing separate electrical circuits. Available in the following CAN bus protocols: AS-i, DeviceNet, Foundation Fieldbus and Profibus DP.

**Housing Material**
- Aluminum (WNXV models)
- Engineered Resin (WR model)

**Enclosure**
- IP65, NEMA 4, 4X, 7 and 9

**Hazardous Area Classifications**
- Flameproof ATEX II 2G Ex d IIB T3/T4
- Flameproof IECEx Ex d IIB T3/T4 IP65
- Flameproof cCSAus Cl. I, Zone 1, Gr. IIB, Ex d IIB T3/T4 IP65, Aex d IIB T3/T4 IP65
- Non-Incendive cCSAus Class I, Div. 2, Gr. A,B,C,D
- Intrinsically Safe FM(US/CAN)/cCSAus, Cl. I, II, III, Div. 1, Gr. A,B,C,D,E,F,G T5

**Get more information:**
- Product brochure: WCENBR1057
- IOM: AXENIOM0100
- See page 2.
Series APEX W7000
Top Mount Positioner

Description
Compact, rugged design provides accurate valve positioning at a competitive price. Available with pneumatic and electro-pneumatic input options that can be field retrofitted.

Housing Material
Die cast aluminum with electrostatic epoxy powder coating or TUFRAM® Severe Service Coating

Features
• Non-interactive zero and span adjustment greatly simplifies and reduces calibration.
• Interchangeable I/P Modules allow positioner to be field converted for 3-15 psi or 4-20 mA input signals
• Multiple cam options allow configuration of positioner characteristics to match valve requirements
• Gold-plated spool valves available in low or high flow versions to match actuator/valve load requirements
• Low-profile flat or optional UltraDome visual indicator provides full-area, wide angle viewing of valve position.
• Top-Mounted UltraSwitch optional for position feedback requirements

Enclosure
NEMA 4, 4x

Hazardous Area Classifications
• FM/CSA Class I, Divisions 1 and 2, Groups B,C,D
• FM/CSA Class II, Groups E, F, G
• ATEX II 2 G Ex d IIIB + H2
• ATEX II 2 G Ex d IIIC
• FM Intrinsically Safe ATEX II 2 G EEx ia IIC
• FM Intrinsically Safe Class I, Division 1, Groups A, B, C, D T4
• FM Class I Zone 0 AEx ia IIC T4

Get more information:
Product brochure: AXENBR0006
See page 2.

Series APEX W8000
Top Mount Positioner

Description
The APEX 8000 positioner provides extremely precise control for a wide range of valve and damper applications. The two-stage pneumatic relay provides faster, more sensitive response characteristics to meet the most demanding control objectives. Pneumatic and electro-pneumatic input options available that can be field retrofitted. Also available with many advanced features such as limit switch feedback, analog feedback and UltraDome visual position indicators.

Housing Material
Die cast aluminum with electrostatic powder coating or optional epoxy coating

Enclosure
NEMA 4, 4x, 7 and 9

Hazardous Area Classifications
• FM Class I, Divisions 1 & 2, Groups B,C,D, Class II, Divisions 1 & 2, E,F,G
• FM Intrinsically Safe Class I, Division 1, Groups A, B, C, D T4
• FM Class I Zone 0 AEx ia IIC T4
• FM Non-incendive Class I, Division 2, Groups A, B, C, D T4
• ATEX Intrinsically Safe II 1 G EEx ia IIC T6
• FM Class I, Division 2, IIC T4
• ATEX II 2 GD EEx d IIB + H2 T6

Get more information:
Product brochure: AXENBR0007
IOM: WCENIM2078
See page 2.

Series L93 Pulsair
Top Mount Positioner

Description
The APEX II pulsair provides extremely precise control for a wide range of valve and damper applications. The two-stage pneumatic relay provides faster, more sensitive response characteristics to meet the most demanding control objectives. Pneumatic and electro-pneumatic input options available that can be field retrofitted. Also available with many advanced features such as limit switch feedback, analog feedback and UltraDome visual position indicators.

Housing Material
Die cast aluminum with electrostatic epoxy powder coating or optional epoxy coating

Enclosure
NEMA 4, 4x, 7 and 9

Hazardous Area Classifications
• FM Class I, Divisions 1 & 2, Groups B,C,D, Class II, Divisions 1 & 2, E,F,G
• FM Intrinsically Safe Class I, Division 1, Groups A, B, C, D T4
• FM Class I Zone 0 AEx ia IIC T4
• FM Non-incendive Class I, Division 2, Groups A, B, C, D T4
• ATEX Intrinsically Safe II 1 G EEx ia IIC T6
• FM Class I, Division 2, IIC T4
• ATEX II 2 GD EEx d IIB + H2 T6

Get more information:
Product brochure: AWCABR1019
IOM: WCAIM2055
See page 2.
**Series AF17 Electric Actuator Positioner**

**Features**
- Solid-state circuit board
- Multiple signal inputs
- LED calibration
- Deadband control
- Direct and reverse acting
- Position feedback

**Housing Material**
- Die cast aluminum, epoxy paint

**Supply Voltage**
- 12, 24 VDC, 120, 240 VAC

**Standard Inputs**
- 1-5mA, 4-20mA, 10-50mA, 0-135 ohm
  - 0-1000 ohm, 0-5 VDC, 0-10 VDC

**Temperature Range**
- -40°F to 150°F

**Accessories**
- Analog output module

**Applications**
- Position control for rotary electric actuators to control valves and dampers.

**Get more information:**
- Product brochure: WCABR1000
- IOM: WCAIM 2031
- WCAIM2050

See page 2.

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**Series DFP17 DataFlo Electric Actuator Positioner**

**Features**
- Microprocessor control
- Pushbutton calibration
- Speed control
- Electronic travel stops
- Adjustable dead band
- Multiple I/O options
- Digital network communications
- 20 programmable functions

**Housing Material**
- Die cast aluminum, epoxy paint

**Supply Voltage**
- 12, 24 VDC, 120, 240 VAC

**Standard Inputs**
- 1-5mA, 4-20mA, 10-50mA, 0-135 ohm,
  - 0-1000 ohm, 0-5 VDC, 0-10 VDC

**Temperature Range**
- -40°F to 150°F

**Accessories**
- Analog output module

**Applications**
- High performance control for Qtr-turn and Multi-turn rotary electric actuators for modulating control of valves and dampers.

**Get more information:**
- Product brochure: WCENBR1021
- IOM: WCAIM2037

See page 2.

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**Series DFC17 DataFlo Electric Actuator Controller**

**Features**
- Microprocessor PID control
- Autotuning
- Local process control
- Pushbutton calibration
- Performance monitoring
- Multiple I/O options
- Modbus network communications
- RS485 network communications
- Desktop software

**Housing Material**
- Die cast aluminum, epoxy paint

**Supply Voltage**
- 24 VDC, 120, 240 VAC

**Standard Inputs**
- 4-20mA, RTD, Thermocouple

**Temperature Range**
- -40°F to 150°F

**Accessories**
- Analog output, 24VDC power supply

**Applications**
- Direct process control (P.I.D.) for flow, temperature, pressure, level and Ph applications.
  - Primary industries: Food & beverage, OEM, Industrial & Automotive

**Get more information:**
- Product brochure: WCENBR1021
- IOM:WCENIM2026

See page 2.
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