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Flowserve rotary valves offer easy maintenance and automation backed by market-friendly expertise and quality heritage brands.

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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-diamater, 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

Get more information:
Product brochure:
• WCABR1013

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

See page 2.

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

Get more information:
Product brochure:
• WCENBR0032

IOM:
• WCEIM0032

See page 2.

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 MR01-75

Get more information:
Product brochure:
• WCENBR0032

IOM:
• WCEIM0013 (for standard valve)
• WCENIM2057 (for fugitive emission)

See page 2.
Series 151 and 301
Wafer Pattern

Features
• Wafer Design
• Designed for light weight.
• 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.

Series D44/D4, D51, 18/19
Directional

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.
• 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
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 94, 94-150, 94-300, 94-600
Fugitive Emission

Features
• Specially designed to control and minimize fugitive Emissions.
• Outstanding performance on high-cycle applications, where no stem leakage is allowed
• Double “live loaded” Stem seal design
• High Vacuum capability
• High cycle capability
• Suitable for Category M services
• Pressure classes to ASME 600

Sizes
½” to 2” 3 piece design
Screwed end
Socket weld
Butt weld
½” to 8” Flanged design

Materials
• Carbon Steel
• Stainless Steel
• Hastelloy-C trim option

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:
• WCABR1023

IOM:
• WCENIM2003 (for Series 94)
• WCENIM2057 (for Series E818/828)

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

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

**Materials**
Carbon Steel/Monel Trim

**Get more information:**
Product brochure: WWCA8R1039

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

**Get more information:**
Product brochure: WWCA8R1029

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

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

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

**Get more information:**
Product brochure: WWCA8R1040

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

See page 2.
**Series WK70**

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

*Materials:*
- ASTM A351-CF3M, ASTM A479
- Interior Surface Finish: 20Ra standard, 15Ra electropolished

*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.

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**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

*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.

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**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

*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: WCNBR1028
- 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
- Pressures above ASME 600 to 5000 psi
- 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 Mizer)

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 (½” to ¾”)
  (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 and 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**
- Process control for rotary valves, dampers and multi-turn chokes
- Boiler feed water
- Temperature control (steam, thermal fluid)
- Chemical, Power, Water/Waste Water, Food & Beverage, HVAC

---

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

---

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

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

**Applications**
- Industrial Qtr-Turn valve automation
- Automotive, 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**
- 30-120 psi DA, 40-120 psi SR

**Enclosure**
- NEMA 1, 4, 4x

**Hazards 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.

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**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/DPT, 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

**Hazards 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
- Class 1, Div 1, Groups C, D
- Class 1, Div 2, 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-10 Amp, 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

Get more information:
- Product brochure: WCABR1027
- IOM: WCAIM2051

See page 2.

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 1GD 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
- Non-Incendive cCSAus, Cl. I, Div. 2, Gr. A,B,C,D, Cl. II, Div. 2, Gr. E,F,G T3

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

Get more information:
- Product brochure: WCENBR0135
- IOM: WCENIM0135

See page 2.

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 IIIC 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

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

Get more information:
- Product brochure: WCENBR0134
- IOM: WCENIM2075

See page 2.
**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 spined 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 1D A21 IP66/IP67
- Flameproof IECEx Ex d IIB T5, Ex 1D A21 IP66/IP67
- 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
- KOSHA Ex d IIB T5
- INMETRO Ex d IIB T5 Gb, Ex tb IIC 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 IIC T4 Gb, Ex tb IIIC T113 °C Db IP66
- 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
- Non-Incendive cCSAus Class I, Div. 2, Gr. A,B,C,D

**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 IIC T4 Gb, Ex tb IIIC T113 °C Db IP65
- Flameproof IECEx Ex d IIC T4 Gb, Ex tb IIIC T113 °C Db IP66
- Explosion-Proof CSAus Cl. I, Div. 1, Gr. A,B,C,D, Cl. II, Div. 1, Gr. E,F,G, Cl. III T4
- Non-Incendive cCSAus Class I, Div. 2, Gr. A,B,C,D
- KOSHA Ex d IIC T4
- INMETRO Ex d IIB T3/IP65, Aex d IIB T3/IP65
- Non-Incendive cCSAus Class I, Div. 2, Gr. A,B,C,D

**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 TUFRA® 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, 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 Intrinsic Safety 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:
- AXENBR0006

See page 2.

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**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

See page 2.

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**Series L93 Pulsair Top Mount Positioner**

**Features**
- Linear and rotary actuator control
- Loop powered, microprocessor design
- Simple user interface
- High visibility graphic display
- Auto calibration
- Two-stage air delivery
- Piezoelectric low power control
- “Zero” air bleed design
- Digital communication options
- NAMUR output, ISO mounting

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

**Enclosure**
- IP66, NEMA 4x

**Hazardous Area Classifications**
- FM/CSA 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

**Temperature Range**
- -22F to 185F

**Accessories**
- Position indication, fail freeze, remote mount

**Applications**
- High performance digital process control for linear and rotary actuators for modulating control

**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.

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.

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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