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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

Features
- 3 Piece Swing out 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

Sizes
- ¼” - 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
- API 607 Fire Test

Get more information:
Product catalog: WCABR1050
IOMs WCIM2048
See pages 2.

SERIES 59

Features
- 3 Piece Full Port 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.

Sizes
- ¼” - 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
- API 607 Fire Test

Get more information:
Product catalog: WCABR1050
IOMs WCENIM2046 (for large 59)
See pages 2.

SERIES 45

Features
- Large-diameter, 3 Piece Ball Valve
- ASME Class 300
- 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
- 2-½”, 3”, 4”, 6”
  - Screwed end
  - Socket weld
  - Butt weld

Materials
- Carbon Steel
- Stainless Steel

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

Get more information:
Product catalog: WCABR1050
IOMs WCENIM2046
See pages 2.
SERIES 51/52

Features
- Flanged 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
- Cavity Filled Designs

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

Materials
- Carbon Steel
- Stainless Steel

Standards
- ASME B16.34
- API 607 Fire Test

Get more information:
Product catalog: WCABR1013

IOMs
WCENIM2014 (for small valves)
WCENIM2015 (for large valves)
WCENIM2054 (for FM)

See page 2.

SERIES 82 & 83 AF 82 & 83

Features
- Flanged Full-Port Unibody Design
- ASME class 150/300
- Tight shut-off
- "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”/¾”/1”/1.5”/2.5”/10”
  For 2” and 3” to 8”, See Series 818
  • ASME 150# and 300# class

Materials
- Carbon Steel
- Stainless Steel

Standards
- ASME B16.34
- API 607 Fire Test

Get more information:
Product catalog: WCABR1016

IOMs
WCENIM2047

See page 2.

SERIES 818 / 828

Features
- Split Body, Full-Port Design
- 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
- Cavity Filled Designs

Sizes
- 2”, 3” - 8”
- ASME 150# and 300# class

Materials
Carbon Steel
Stainless Steel

Standards
- API 6D
- API 607 4th Edition
- NACE MR01-75
- BS 5500 Pressure Vessel Code

Get more information:
Product catalog: WCABR1015

IOMs
WCENIM2020 (for std. valve)
WCENIM2057 (for fugitive emission)

See page 2.
Series 151 and 301

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”, 4”, 6”
- ASME 150# and 300# class
- Rated at 720 CWP

Materials
- Bronze
- Ductile iron

Get more information:
Product catalog: WCABR1041

IOMs
WCENIM2015

See page 2.

Series D44/D4, D51, 18/19

Features
- Multi-port Diverter Valves
- Three-piece or flanged design
- Bottom entry or side entry
- Full port or standard 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
- Standard or full port
- Optional fugitive emission design
- Class 150 or 300
- Screwed, socket or butt weld and slip-on flanges

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

Materials
- Carbon Steel
- Stainless Steel

Standards
- ASME B16.34
- API 607 Fire Test

Get more information:
Product catalog: WCABR1052

IOMs
WCENIM2030 (for Miser)
WCENIM2015 (for large valves)

See page 2.

Series 94, 94-150, 94-300, 94-600

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” - 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 catalog: WCABR1023

IOMs
WCENIM2003 (for std. valve)
WCENIM2057 (for fugitive emission)

See page 2.
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˝ - 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 catalog: WCABR1039

IOMs
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.

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˝ - 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
• BS 6755-PT2
• FM 7440

Get more information:
Product catalog: WCABR1029

IOMs
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.

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˝ - 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 catalog: WCABR1040

IOMs
WCENIM2006 (for R12/R6 or earlier)
WCENIM2038 (for std. valve)

See page 2.
WK44 HIGH PURITY VALVES

**Features**
- High Purity, Cast 316L
- Class 100 Clean Room Assembly
- 30Ra interior surface finish
- Diverter and Three-way porting
- Aseptic purge connections
- Quick disconnect & Extended weld ends

**Specifications**
- Size Range: ½” - 2.0”
- Body Styles: 2-way and 3-way

**Materials:**
- ASTM A351-CF3M, ASTM A479
- Interior Surface Finish: 30Ra std, 15Ra electropolished
- Seats/Seals: PTFE, UHMWPE, Polyfill

**Agency Approvals**
- FDA(21CFR), USDA, USP

**Applications**
- Sterile steam, cosmetics and creams, oils, detergents, food processing

Get more information:
Product catalog: WCABR1035

IOMs
WCAIM2030

See page 2.

WK70 HIGH PURITY VALVES

**Features**
- High Purity, Forged F316L - Tube bore
- Class 100 Clean Room Assembly
- 20Ra interior surface finish
- Controlled ferrite <5%
- Controlled sulfur for orbital welding
- CMTRs standard

**Specifications**
- Size Range: ½” - 4.0” (6.0” optional)
- Body Styles: 2-way and 3-way

**Materials:**
- ASTM A182 F316L, ASTM A479
- Interior Surface Finish: 20Ra std, 10Ra electropolished
- Seats/Seals: PTFE, TFM, Polyfill

**Agency Approvals**
- ASME BPE, FDA(21CFR), USP Class 6, USDA

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

Get more information:
Product catalog: WCABR1036

IOMs
WCAIM2018

See page 2.
**Series: 4, H44,PT**

**High-per Mizer**

**H71 Hydromizer**

**Features**
- High-Pressure Valves
- Resilient seated valves for High pressure and High Temperature applications
- Pressures above ASME 600 to 5000 psi and ASME Class 2500 (Consult Brochure for PT curves and limitations)
- Used in Steam, Hydraulics, gasses and fluids, CNG and Subsea

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

**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 catalog: WCABR1051

IOMs
WCENIM2015 (for large 51/51)
WCENIM2024 (for std. valve)
WCENIM2030 (for Miser)

See page 2.

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**TANK BOTTOM VALVES**

**CONTROL VALVE**

**SERIES CPT**

**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 600

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

Get more information:
Product catalog: WCENBR1028

Installation instructions: WCENIM2001

See page 2.

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**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” - 2” 3-piece design
- Screwed end
- Socket and Butt weld
- ½” to 4” Flanged design
- Wafer 3”-6”
- 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 catalog: WCABR1001

IOMs
WCENIM2009 (for series 94)
WCENIM2040 (for series 44)

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 deg F to 150 deg F maximum ambient

Supply Voltage
- 120 VAC 50/60, 240 VAC 50/60

Standards
- Type 1, 4 and 4X

Applications
- Industrial quarter-turn ball valves

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

Get more information:
Product catalog: WCABR1006 or WCABR1007

IOM WCAIM2007
See page 2.

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
- RTU Solar Power Interface

Torque Range
- 150 - 3000 in-lbs

Temperature Range
- -40 F to 150 F

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

Standards
- Type I, 4, 4X
- Class 1, Div 1, Groups B,C,D

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

Get more information:
Product catalog: WCABR1014

IOM WCAIM2013
See page 2.

SERIES 72 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

Standards
- Type 4, 4X
- Class 1, Div 1, Groups B,C,D

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

Get more information:
Product catalog: WCABR1025

IOM WCAIM2049
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
- 24,120, 240, 480 VAC; 12,24VDC

Standards
- Type1, 4, 4x
- Class1, Div1, Groups A,B,C,D

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

Get more information:
Product catalog: WCENBR1004
IOM WCAIM2008

See page 2.

Series 39 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
- Dual male output shafts
- End cap air supply ports
- End mount solenoid/switch accessories

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

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

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

Standards
- Type1, 4, 4x
- Class1, Div1, Groups A,B,C,D

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

Get more information:
Product catalog: WCABR1003
IOM WCAIM2036

See page 2.

Series 39 Pneumatic Actuator with Process Interface

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 Fieldbus networks

Torque Range
- Up to 60,000 in-lbs

Enclosure
- Type 4, 4X; U.L.; CSA approved
- Class1, Div1, Groups B,C,D
- Intrinsically Safe, NRTL/C approved

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

Standards
- Type 4, 4x, 7, 9 and 12

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

Get more information:
Product catalog: WCABR1024
IOM WCAIM2027 WCAIM2028 WCAIM2023 WCAIM2032

See page 2.

www.flowserve.com
**Series Elk9**

**End Mount Position Switch**

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

**Enclosure**
- Die cast aluminum, epoxy coated

**Standards**
- Type 4, 4X; U.L.; CSA approved
- 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, 24VDC
- DPDT - 10 Amp, 24, 120, 240 VAC; 1/2A, 24VDC
- I.S.- (Gold Contacts), 1 Amp, 120 VAC, 1 Amp, RES (0.5A IND) 24 VDC
- Proximity Sensor - (5-200mA, 20-140VAC, 10-140VAC, UL listed, CSA Certified)

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

Get more information:
Product catalog: WCABR1027
IOM WC AIM2051

See page 2.

**UltraSwitch WGL Series**

**Top Mount Position Switch**

**Features**
- Pharos 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
- Pre wired 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 sensor options

**Description**
- Provides a compact and economical package for NEMA 4 visual and remote electrical indication of valve position

**Housing Material**
- Die cast aluminum; electrostatic powder coated

**Standards**
- NEMA 4, 4x

**Hazardous Area Classifications**
- Class I, Division 2 , Groups A, B, C, D approvals when supplied with hermetically sealed magnetic proximity switches.
- ATEX II 2G Ex e II T4-T6 with Phazer II and BRS switches.
- Class II Division 2 Groups F&G

Get more information:
Product catalog: WCENBR1057

**Product Specification**
WCENPS1054
IOM WCENIM2075

See page 2.
UltraSwitch WPL Series
TOP MOUNT POSITION SWITCH

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 for harsh corrosive environments

Housing Material
• Non-metallic engineered resin

Standards
• NEMA 4, 4x

Hazardous Area Classifications
• Class I, Division 2, Groups A, B, C, D approvals when supplied with hermetically sealed magnetic proximity switches ATEX II 2 G EEx me II T4-T6 with Phazer II and BRS switches.
• Class II Division 2 Groups F&G

Get more information:
Product catalog: WCENBR1057

IOM WCENPS1055

See page 2.

UltraSwitch WXCL Series
TOP MOUNT POSITION SWITCH

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

Standards
• NEMA 4, 4x, 7, 9, IP65, IP67

Hazardous Area Classifications
• Explosion-Proof (UL/CSA/ATEX) mechanical switch options
• Class I, Divisions 1, Groups C and D
• Class II, Divisions 1, Groups E, F and G
• ATEX II 2 G EEx d IIB T5
• Explosion-Proof (UL/CSA/ATEX) proximity/ solid state switch options (except NJ)
• Class I, Division 1, Groups C and D
• Class I, Division 2, Groups A, B, C and D with select hermetically sealed proximity switches
• Class II, Divisions 1 and 2, Groups E, F and G
• ATEX II 2 G EEx d IIB T5

Get more information:
Product catalog: WCENBR1057

IOM WCENPS1056

See page 2.

Aviator Integrated Valve Controller
TOP MOUNT POSITION

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.

Housing Material
• Aluminum (XV and CV models)
• Engineered Resin (WR model)

Standards
• NEMA 4, 4x, 7, 9 IP66/IP67 (XV model)
• ATEX EEx d IIB (CV model)
• NEMA 4, 4x (WR model)

Hazardous Area Classifications
• Explosion-Proof (UL/CSA/ATEX) mechanical switch options
• Class I, Division 1, Groups C and D
• Class II, Division 1, Groups E, F and G
• Class II, Division 2 Groups F&G
• Class I, Division 2, Groups A, B, C and D
• ATEX II 2 G EEx d IIB T4-T6
• ATEX II 3 G EEx nc II T4-T6 with R4 P1,PP and B4 switch options.

Get more information:
Product catalog: WCENBR1057

See page 2.
**BUSwitch Integrated Valve Controller**  
**TOP MOUNT POSITION**

**Description**  
• Designed for use with pneumatic rotary industrial valve actuators in hazardous locations with digital fieldbus communications. With the same features as the Aviator, 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 fieldbus protocols: AS-i, DeviceNet, FOUNDATION Fieldbus and PROFIBUS DP.

**Housing Material**  
• Aluminum (XV and CV models)  
• Engineered Resin (WR model)

**Standards**  
• NEMA 4, 4x, 7, 9 IP66/IP67 (XV model)  
• ATEX EExd IIB (CV model)  
• NEMA 4, 4x (WR model)

**Hazardous Area Classifications**  
• Class I, Division 1, Groups C, D  
• Class II, Division 1, Groups E, F, G  
• Class II, Division 2, F&G  
• Class I, Division 2, Groups A, B, C and D  
• Class I, Divisions 1 and 2, Groups A, B, C and D Intrinsically safe for FOUNDATION Fieldbus protocol only  
• ATEX II 2 G Ex d IIB T4-T6  
• ATEX II 3 G Ex nC II T4-T6 with FOUNDATION Fieldbus only

Get more information:  
Product catalog: AXENBR0006  
Installation instructions: AXENIM0032 or for non-metallic AXENIM0097  
Product specification: AXENPS0059 or for non-metallic AXENPS0098  
Installation instructions: AXENIM0087 for AS-i protocol  
Installation instructions: AXENIM0048 for FOUNDATION Fieldbus protocol  
Installation instructions: LML0012 for PROFIBUS DP protocol  
See page 2.

**PM15 & PM15E Positioner**  
**Pneumatic & Electropneumatic**

**Features**  
• Simple calibration  
• Modular design  
• External I/P module  
• High gain, high capacity spool valve  
• Gold plated spool valve  
• Stainless internals  
• Gauge ports  
• Multiple feedback accessories  
• NAMUR output shaft  
• ISO mounting

**Enclosure**  
• Die cast aluminum, epoxy paint

**Ingress Protection**  
• IP66, NEMA 4

**Approvals**  
• ATEX - EExd, EEx ia, EEx nl  
• CSA - Class1, Div1, Groups BCDEFG  
• FM - Class1, Div1, Groups B,C,D  
• I.S. - Class1, Div1, Group A,B,C,D

**Temperature Range**  
• -40F to 185F

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

**Applications**  
• Accurate and reliable control of linear and rotary pneumatic actuators for modulating control

**Industries served:** All

Get more information:  
Product catalog: WCABR1032  
IOM  
WCAIM2016  
WCAIM2017  
See page 2.

**L93 Pulsair Positioner**  
**Analog and Digital**

**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

**Enclosure**  
• Die cast aluminum, epoxy paint

**Ingress Protection**  
• IP66, Type 4x

**Approvals**  
• ATEX - EExd, EEx ia, EEx nl  
• CSA - Class1, Div1, Groups BCDEFG  
• FM - Class1, Div1, Groups B,C,D  
• I.S. - Class1, Div1, Group A,B,C,D

**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

**Industries served:** All

Get more information:  
Product catalog: WCABR1019  
IOM  
WCAIM2055  
See page 2.
AF17 Positioner
Positioners - Electric Actuation

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

Enclosure
• Die cast aluminum, epoxy paint

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

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

Temperature Range
• -40F To 150F

Accessories
• Analog output module

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

Industries served: All

Get more information:
Product catalog: WCABR1027

IOM
WCAIM 2031
WCAIM 2050

See page 2.

DFP17 - DataFlo Positioner
Positioners - Electric Actuation

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

Enclosure
• Die cast aluminum, epoxy paint

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

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

Temperature Range
• -40F To 150F

Accessories
• Analog output module

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

Industries served: All

Get more information:
Product catalog: WCABR1024

IOM
WCAIM 2037

See page 2.

DFC17 - DataFlo Controller
Controllers - Electric Actuation

Features
• Microprocessor PID control
• Autotuning
• Local process control
• Pushbutton calibration
• Performance monitoring
• Multiple I/O options
• Modbus network communications
• RS485 network communications
• Desk top software

Enclosure
• Die cast aluminum, epoxy paint

Supply Voltage
• 120VAC, 240VAC, 24VDC

Standard Inputs
• 4-20mA, RTD, Thermocouple

Temperature Range
• -40F To 150F

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 catalog: WCABR1024

IOM
WCAIM 2026

See page 2.
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