



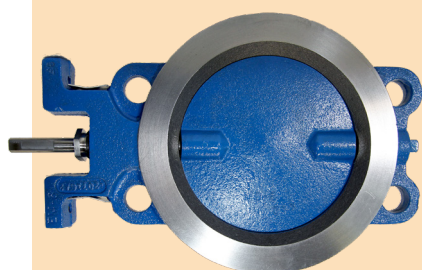
Process Development & Control, LLC

A **LEADING MANUFACTURER** OF
VALVES AND **ACTUATORS SERVING INDUSTRIAL,**
COMMERCIAL AND **MUNICIPAL CUSTOMERS** FOR
OVER 50 YEARS!

BUTTERFLY DAMPER VALVES

Econotrol

Sizes from 2" thru 14"
To 450°F (232°C)
with standard materials



Medium Duty

Sizes from 2" thru 24" To
900°F (482°C) with optional
materials. (Consult Factory)



Excel

Sizes from
2" thru 60"
To 1500°F
(815°C)
with optional
materials



Design Features

- Inboard bushings options include: Graphited Bronze, Metcar and Macor
- Dependable flow characteristics
- Adjustable packing, Valves can be repacked without removal from line
- Rugged mounting
- Options for shaft end treatments: Flatted, Keywayed or Hexed
- Lightweight, solid ring, wafer design for ease of installation with 4 alignment holes insure proper fit without transfer of pipe stresses to the valve body.
- Standard design fits ANSI/ASME Class 125/150lb Flanges
- Seat options of swing, step, and tadpole which approaches ANSI class IV leakage.
- Valves for RPM Flanges are available in some sizes. Consult PDC.

Options vary with style.

Key Applications and Industries

- Blower Equipment
- Compressor Equipment
- Boiler Equipment
- Environmental Systems
- H.V.A.C.
- Industrial Process Furnaces
- Oil Gas/Refining
- Power Generation/Co-Generation
- Water & Sewage
- Stationary Engines
- Chemical Equipment
- Mining Equipment
- Gas Recovery Systems


BUTTERFLY VALVES

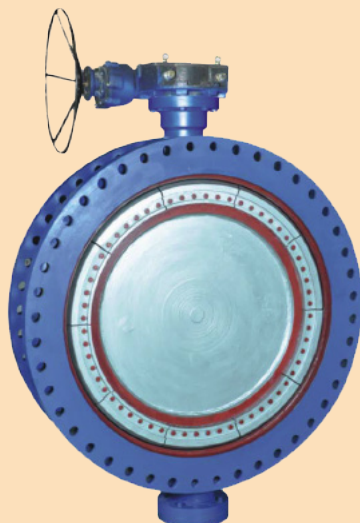
Triple & Double Off-Set Disc "Wafer" Type Butterfly Valve

Sizes from 2" thru 48"



AWWA Butterfly Valve

Sizes from 2-1/2" thru 104"  AWWA



High Performance Butterfly Valve Bi-Direction Shut Off & Modulating

Sizes from 1-1/2" thru 36"



Lined Butterfly Valve

Sizes from 2-1/2" thru 104"



Design Features

- Wafer & Lug Styles
- Flanged Styles
- Shut Off Service
- Flanges available in ASME B16.5 Class 150, 300 & 600 / ASME B16.47 Series A Class 150, AWWA C-207 & C-504, IS15138, BS5404, IS6392 (consult factory)
- Class VI leakage per ASME B 16, 16.104
- Fire Safe
- ISO 5211 Actuator Mounting
- Compact Design Full Port
- Easy Maintenance
- Manual and Automation packages

Options vary with style.

Key Applications and Industries

- Water & Wastewater
- Backwash Valves
- Downstream Hydrocarbons
- Food & Beverage
- Energy & Onsite Utilities
- Life Sciences & Medical
- Mining, Minerals & Metals
- OEM / Engineered Solutions
- Sludge Line to Filter Press
- Power Generation
- Pulp & Paper
- Automotive
- Chemical
- Altitude Valve
- Marine
- Oil & GAS
- Steam

ELASTOMER HINGED CHECK VALVES

Pipe Styles

Sizes from 1" thru 12"



Cast Short From Wafer

Sizes from 2" thru 24"



Design Features

PDC's Patented Anti-Fatigue Reinforcement Layer – Our ElastoTITE™ Check Valve's New Patented Anti-Fatigue Reinforcement Layer is substantially un-stretchable and capable of resisting abrasion forces that are encountered while the valve is in operation, increasing the life of the valve significantly.

- Elastomer Hinge Seal available seal in Buna N (standard), EPDM, Silicone, and Viton
- Available in Cast Short Form Wafer, Thread End, Grooved End, Plain End, Wafer Bar, and Flanged styles
- Fast to Close angled valve plates travel only 60° versus a "dual plate machined seat" that must travel 90° to fully closed.
- Only one external possible leak path versus the two most competitors have for hinge bar and valve plate stop internals anchoring on sizes 1" to 10" pipeline sizes.
- Valves can be mounted in any position.
- Spring-less design. Our valves operate without the assistance of a spring in the majority of all applications. With the assistance of a spring, the "slamming" action of the plates is all but eliminated. A spring is recommended when the valve is placed in a vertical downward flow pipeline position
- Full Port Seat-less design. Provides the largest flow area possible with the smallest pressure loss.

Key Applications and Industries

- Blower Equipment
- Compressor Equipment
- Boiler Equipment
- Environmental Systems
- H.V.A.C.
- Pump



Options vary with style.

MAGNUS FORCE PNEUMATIC ACTUATOR

Double Acting & Spring Return



Design Features

- Indicator: Multi-function position indicator with NAMUR mounting
- Pinion: Conforms to ISO5211, DIN3337, and NAMUR standards.
- Actuator Body: Extruded aluminum alloy body can be coated
- End Caps: Die-cast aluminum and can be coated
- Piston: The twin pistons are made of hard anodized coated die-cast aluminum or zinc coated steel. Reverse rotation is achieved by reversing air input.
- Stroke Adjustment: Two independent external travel bolts can accurately adjust $\pm 5^\circ$ at open and closed positions.
- High Performance Spring: Preloaded springs are resistant to corrosion.
- Bearings and Guides: Low friction, long-life material, easily maintained & replaced
- O-Rings: Standard NBR O-Rings; High Temperature or Application options of Viton or Silicone

Options vary with style.

Key Applications and Industries

- Automotive
- Chemical
- Downstream Hydrocarbons
- Food & Beverage
- Energy & On-site Utilities
- Life Sciences & Medical
- Mining, Minerals & Metals
- Marine
- OEM / Engineered Solutions Providers
- Oil & GAS
- Power Generation
- Pulp & Paper
- Water & Wastewater

MAGNUS FORCE ELECTRIC ACTUATOR

Quarter-turn (PDCQ)

Designed for quarter-turn operating applications on valves and dampers



Spring Return (PDCS)

Designed for Quarter-turn operating applications requiring a fail position upon loss of power supply



Design Features

- PDCQ output torques ranging from 53 in-lbs (6 N-m) to 31,000 in-lbs (3,500 N-m)
- PDCS output torques ranging from 445 in-lbs (50 N-m) to 2,300 in-lbs (260 N-m)
- Enclosures meeting the sealing standards of CSA and NEMA Type 4X along with IP67 Ingress Protection. Explosion-proof Enclosures available on some model sizes. Consult PDC
- Manual Override standard
- Mounting base ISO 5211 standard
- Standard voltages of 24V DC, 24V AC, 110V/220V AC, 1PH, 60Hz $\pm 10\%$
- Standard Operating Temperature range of -22°F to +149°F (-30°C to +65°C)
- Optional Modulating Control with 300 to 1,200 starts/movements per hour
- Optional 4-20mA Position Transmit
- Optional Torque Switches

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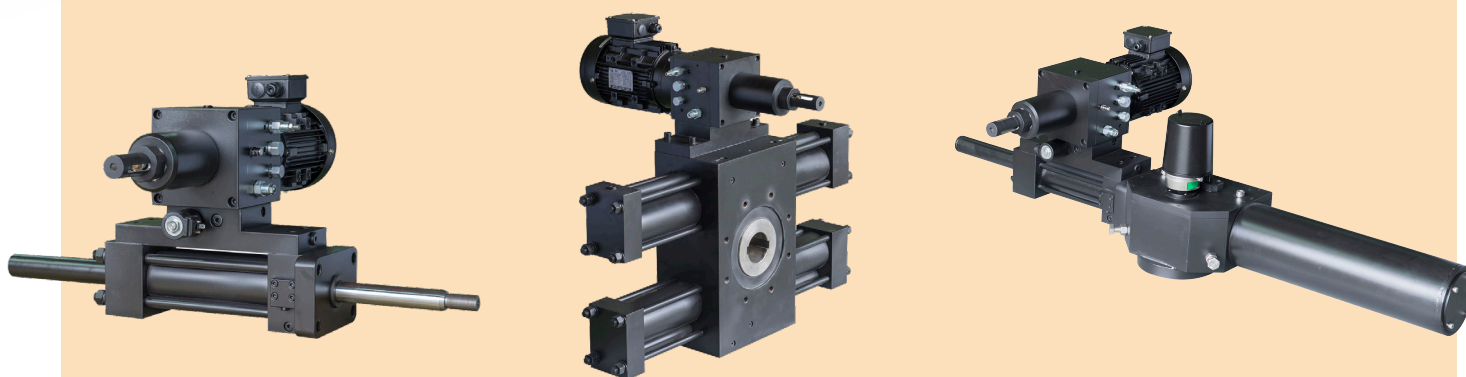
MAGNUS FORCE ELECTRO-HYDRAULIC ACTUATOR

**MSL Linear
Cylinder**

**MSR Rack & Pinon
Cylinder**

**MSS Scotch
Yoke Cylinder**

*Shown with optional
Spring Module*



Design Features

The MS series Electro-Hydraulic actuator is an integrated actuator, that adopts a closed-loop hydraulic system. It follows the instructions of the electric input signal, then drives the hydraulic cylinder by direct drive volume control (DDVC) technology. These actuators are highly reliable, low maintenance, energy-saving, pollution resistant, and more.

- Supply Voltage: 208/220/240/380/400/415/440/480V, 3Ph, 50/60Hz
- Enclosure: NEMA 4, 4X or explosion proof
- Motor: 1 Horsepower to 4 Horsepower
- Operating Temperature: -13°F (-25°C) to 158°F (70°C)
- Service: Open/Close, Fail Safe (Optional)
- Output: Rotary MSS/MSR: torque of 5K to 800K in-lbf
- Linear MSL: thrust of 25K to 200K lbf

Products are designed to meet UL, CSA and other global certifications for use in hazardous location applications. Hazardous area / explosion-proof certifications are pending agency approvals.

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- OEM / Engineered Solutions
- Sludge Line to Filter Press
- Oil & GAS
- Power Generation
- Pulp & Paper
- Water & Wastewater
- Backwash Valves
- Altitude Valve



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Quality Certification

PDC Valve is
ISO 9001:2015
certified!

AIS
Compliance

