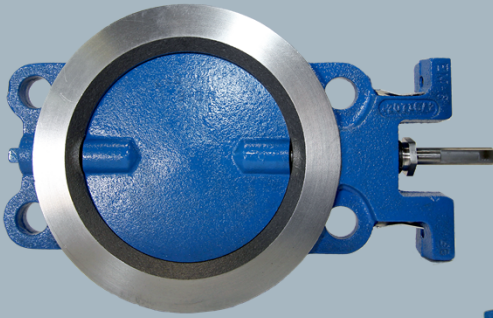




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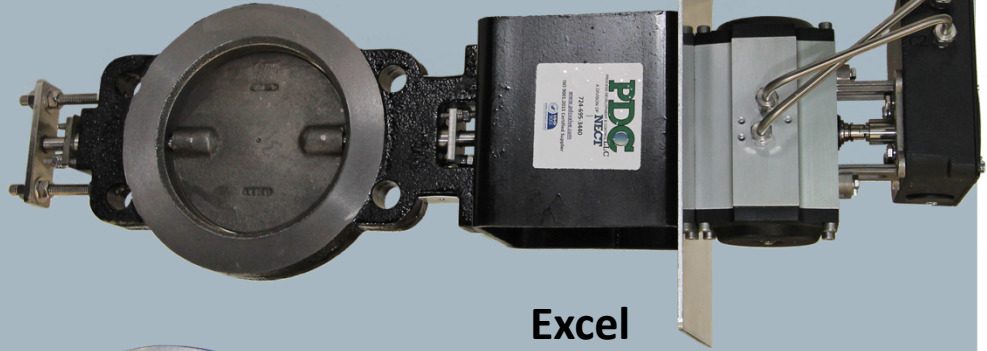


Butterfly Damper Valves



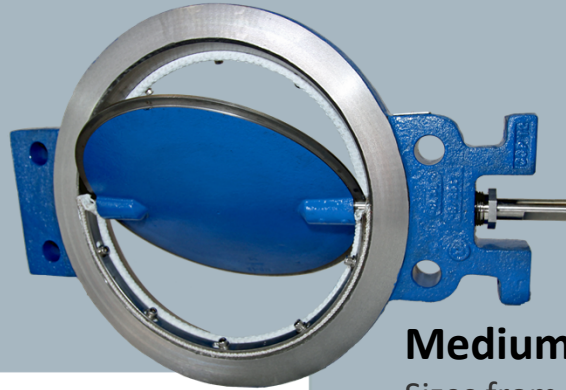
Econotrol

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



Excel

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



Medium Duty

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

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.
- Seat options swing, step, and tadpole which approaches ANSI class IV.

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

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Flow Control Solutions



High Performance, Triple Offset, AWWA, & Lined Valves

PTFE Lined Butterfly Valve

Sizes from 2" thru 12", for Corrosive Applications

Triple Off-Set Butterfly Valve

Sizes from 2" thru 48"

AWWA Butterfly Valve

2-1/2" to 104"

High Performance Butterfly Valve

Bi-Direction Shut Off and Modulating
Sizes 1-1/2 " to 36"

Double Off-Set Double Flange & Wafer Style Butterfly Valve

Sizes from 2-1/2" thru 48"

Design Features:

- Wafer & Lug 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)

Options vary with style.

- 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 available
- Material options to fit your requirements

Key Applications and Industries:

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

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Flow Control Solutions



Elastomer Hinged Check Valves



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 available in Buna N (standard), EPDM, Silicon & Viton
- Available in Thread End, Grooved End, Plain End, and Cast Short Form Wafer styles

Key Applications and Industries:

- Blower Systems
- Pump Equipment
- H.V.A.C.



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Flow Control Solutions



Magnus Force Pneumatic Actuators



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

Key Applications and Industries:

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

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Process Development & Control LLC
Flow Control Solutions



Magnus Force Electric Actuators

Spring Return (PDCS)

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

Quarter-turn (PDCQ)

Designed for quarter-turn operating applications on valves and dampers



Design Features Quarter Turn:

- Output torques ranging from 53 in·lbs (6 N·m) to 31,000 in·lbs (3,500 N·m)
- Enclosures meeting the sealing standards of CSA and NEMA Type 4X along with IP67 Ingress Protection
- Manual Override standard
- Mounting base ISO 5211 standard
- Standard voltages of 24V DC, 24V AC, 110V/220V AC, 1PH, 60Hz ±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 Transmitter

Design Features Spring Return:

- 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
- Adjustable mechanical buffer for the fail end position as standard
- Mounting base ISO 5211 standard
- Optional Modulating Control (except with 24V AC/DC)
- Optional Clutch-less geared Manual Override

Key Applications and Industries:

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

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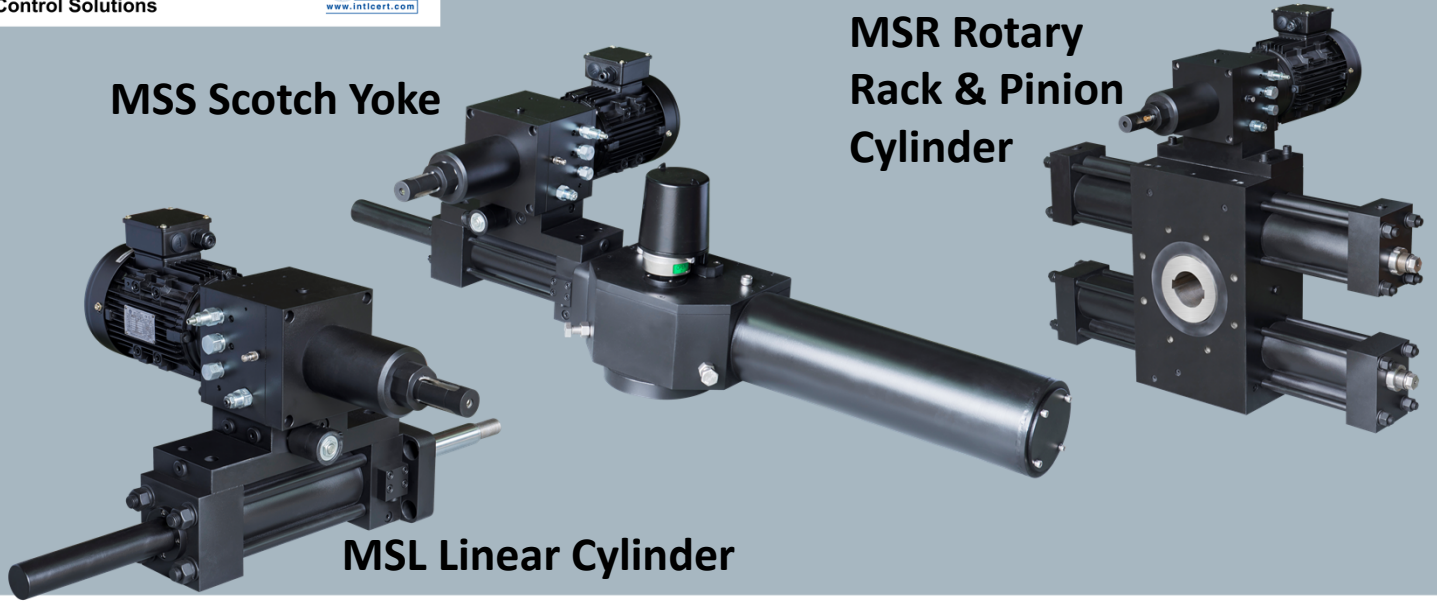


Magnus Force Electric-Hydraulic Actuators

MSS Scotch Yoke

**MSR Rotary
Rack & Pinion
Cylinder**

MSL Linear Cylinder



Design Features:

- Modular design allows you to choose the best combination
- Closed circuit hydraulic driving motion
- Positive pressure oil reservoir, no oil leakage, loss or contamination
- Can be installed in any position
- Can be used in outdoor and dusty environments
- Total electric operation—self-contained, discrete movement
- Optional remote mounting of electrical control enclosure
- Optional 4-20 mA valve position feedback
- PDC can supply Actuators that will open or close the valves multiple times even if the main power supply is lost

Key Applications and Industries:

- | | | |
|-----------------------------|-------------------------------|----------------------|
| • Automotive | • Mining, Minerals & Metals | • Pulp & Paper |
| • Chemical | • Marine | • Water & Wastewater |
| • Downstream Hydrocarbons | • OEM / Engineered Solutions | • Backwash Valves |
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