Valve Actuation

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Instruments

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Industrial PVF

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FOR JFLOW AUTOMATION

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JFLOW® CONTROLS

JFC-Series
Rack & Pinion Pneumatic Actuator

Description:

JFlow Controls rack and pinion actuators are designed to operate in a variety of applications. JFlow Controls realizes that the performance of the actuators is extremely important to your process control. Therefore, our pneumatic rack and pinion actuators have been designed, manufactured, and tested using the latest technology, materials, and innovation, providing excellent service in various environments.

Advantages:

- Compact extruded corrosion resistant hard-anodized aluminum body.
- Double Acting or Spring Return – Common endcaps for DA and SR
- Dual travel stops for open and close adjustment with 10 Deg over travel adjustment
- Standard working temperature -5°F to 175°F
- Maximum working pressure 150 psig
- Operating media: clean, dry air, non-corrosive gas or light hydraulic oil
- Substantial pinion bearings mean high cycle life
- Standard valve mounting pad: ISO/DIN 5211
- Standard accessory mounting NAMUR & VDE/VDE-3845
- Permanently lubricated units
- Each unit serialized by laser
- Visual dome indicator

Options:

- 17 Double Acting models with torque outputs to over 100,000 inch pounds.
- 17 Spring return models with torque outputs to over 36,000 inch pounds.
- FMK seals are available for high-temperature applications.
- Silicon seals are available for low-temperature applications.
- Custom mounting configurations are available in quantity.
- Accessories available to meet customer control requirements.

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Declutchable Wormgears JFDG-Series

Description:

The JFDG Declutchable Wormgear Manual Override is used with pneumatic actuators and is one of the main components of an automatic control system. It is mainly used for 90° rotary applications to open and close a butterfly valve, ball valve, or damper to achieve manual operation during power failure.

Features:

- Light weight aluminum construction with corrosion resistance powder coating
- Direct mount to JFC Series rack & pinion actuators.
- Output torques are easily matched with pneumatic actuators and a variety of valves.
- Available large torque versions – 320: 1 and 450: 1

Options:

- Locking Handwheel
- Chainwheel
- Special coatings / IP 68 rating

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JFLOW® CONTROLS

SMART Positioner 6001-Series

Description:

6001 Series Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20 mA being delivered from controller. This positioner has a compact design, convenient and powerful function, and enhanced reliability.

Features:

- Auto calibration
- LCD display
- Feedback signal
- Auto/Manual switch
- PID Control
- With Limit Switch
- HART communication
- 4 buttons for local control

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JFLOW® CONTROLS

Electric Actuator JFE-Series

Features:

- Self-locking worm drive electric actuators
- 440-17700 in-lbs torque output
- 24VAC/110VAC/220VAC, 24VDC motor voltage
- On/Off, two and three position control
- Modulating 4-20mA, 0-20mA, 0-10VDC, 0-5VDC, 1-5VDC, 2-10VDC Input
- Standard transmitter with modulating option
- Modbus Rs485, Canbus 2.0B
- Wireless LoRa, RF Ocean, distance up to 1.8 mi.
- High speed option, 2 seconds/90°
- 1.3 OLED display on Intelligent On/Off and Modulating models
- Ball bearing design for high cycle applications
- Timer and repeat timer option (hours, days, weeks)
- Manual override with wrench; push button manual override feature on intelligent models
- Weather-Proof IP66 / NEMA 4, 4X
- 12 and 24 VDC is 100% duty
- ISO Direct Mount

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JFLOW® CONTROLS

JFEW-Series
Weather-Proof Electric Actuator

Features:

- Enclosure using radial seals & O-rings that provide protection to waterproof IP67 (NEMA 4 & 6) and optional watertight IP68
- CSA & CE Approved NEMA 4, 4X Weather Proof
- Compact and Lightweight
- High corrosion resistance inside and out with hard anodized aluminum with polyester powder coating.
- Compartment heater with thermostat for condensation control
- Self-locking provided by double worm gearing (no brake required).
- Wide Range of Voltage (24VDC, 24VAC/1PH, 120VAC/1PH, 220VAC/1PH, 440VAC/3PH)
- ISO 5211
- Removable drive bushing for easy machining and mounting
- Auto-declutching manual override handwheel with pad-lockable auto / manual switchable lever.
- Standard Auxiliary Limit Switches (SPDT x 2Ea 250V AC 10A Rating)
- Reliable Mechanical Torque sensing system providing safe operation in an overload condition. Standard Torque switches (except JFEW/X-0100)

Options:

- Potentiometer Unit
- Watertight IP68 Enclosure Actuator
- High Resolution Proportional Control Unit (Input/Output 4-20mA, 0-10VDC, 2-10VDC or 1-5VDC) with 450 Points of resolution
- Position Transmitter (output 4-20mA or 0-10VDC)
- Extension 120°, 135°, 180°, 270° Turn
- Various Local position control options providing easy commissioning and operation in the field.

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PipeValves™
Since 1963

JFLOW® CONTROLS

JFEX-Series
Explosion-Proof Electric Actuator

Features:

- CSA Approved NEMA 4, 4X & 7 Explosion Proof
- Enclosure using radial seals & O-rings that provide protection to waterproof IP67 (NEMA 4 & 6) and optional watertight IP68
- Compact and Lightweight
- High corrosion resistance inside and out with hard anodized aluminum with polyester powder coating.
- Compartment heater with thermostat for condensation control
- Self-locking provided by double worm gearing (no brake required).
- Wide Range of Voltage (24VDC, 24VAC/1PH, 120VAC/1PH, 220VAC/1PH, 440VAC/3PH)
- ISO 5211
- Removable drive bushing for easy machining and mounting
- Auto-declutching manual override handwheel with pad-lockable auto / manual switchable lever.
- Standard Auxiliary Limit Switches (SPDT x 2Ea 250V AC 10A Rating)
- Reliable Mechanical Torque sensing system providing safe operation in an overload condition. Standard Torque switches (except JFEW/X-0100)

Options:

- Potentiometer Unit
- Watertight IP68 Enclosure Actuator
- High Resolution Proportional Control Unit (Input/Output 4-20mA, 0-10VDC, 2-10VDC or 1-5VDC) with 450 Points of resolution
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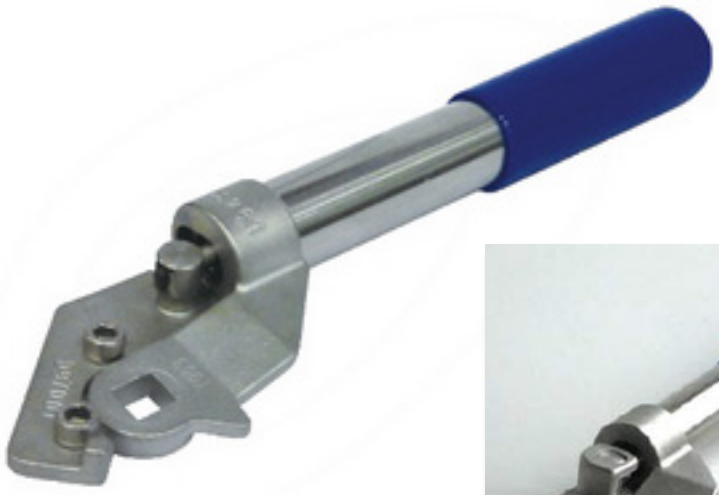

JFLOW® CONTROLS

Spring Return Handle (Dead Man Handle)

Description:

J-Flow's SR Series spring return handle (also called dead man handle) was well designed as a heavy duty type for long term operation. The most characteristic of the SR Series is the locking device option.
The SR Series is designed to mount upon the ISO 5211 direct mounting pad. This will be convenient to replace a standard handle to a SR Series. It is easy to replace the handles after long term service without discarding the entire valve. It is also economical to stock the spring handles separately.

Specifications:

- SS spring handle
- Heavy duty design
- For ISO 5211 direct mounting pad

Options:

- Locking devices

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- Energy audits, steam trap surveys, live steam lab demonstrations
- Daily local truck routes, emergency delivery options
- Phone, counter, email, fax and e-commerce ordering options
- Express sales counter pickup and tool rental
- Vendor Managed Inventory options customized to your needs
- Product specialists and staff engineers assist with problem solving
- Kitting Services - we can bag and tag to your specifications
- Bin management, bar code scanning and labeling solutions available
- PV University Classes, Where Seeing Is Believing: Actuation, Valves, Steam
- 24/7 emergency service available in many areas

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