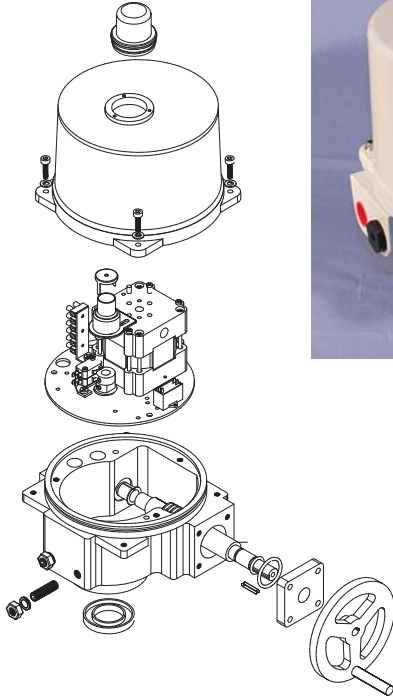





PROMATION ENGINEERING

Precision Actuation for Industry




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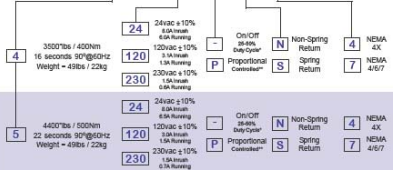
P4 Series P5 Series

Actuator Specifications	P4	P5
Torque @ 50Hz	3000/3000lbs	4400/3000lbs
Supply Voltage	24vac 120vac 230vac 240vac 120vac 230vac	24vac 120vac 230vac
Max Inrush Current	8.0A 3.5A 1.5A 1.5A 2.0A 1.5A	8.0A 3.5A 1.5A 1.5A 2.0A 1.5A
Running Current	4.0A 1.5A 0.5A 0.5A 1.5A 1.5A	4.0A 1.5A 0.5A 0.5A 1.5A 1.5A
Runtime (60°@60/50Hz)	Min: 1000/1000 2000 2000	Min: 1000/1000 2000 2000
Weight	49/30/22kg	49/30/22kg
Mechanical Connections	ISO 50511	ISO 50511
Electrical Entry	(2) 3/4" NPT	(2) 3/4" NPT
Electrical Terminations	12 - 18 Gg	12 - 18 Gg
Environmental Rating	4...4X	4...4X
Manual Override	7.8" Hand/Wheel	7.8" Hand/Wheel
Control	On/Off Proportional	On/Off Proportional
Case material	Aluminum Alloy, Powder Coated	Aluminum Alloy, Powder Coated
Motor Protection	Split Phase Capacitor	Split Phase Capacitor
120vac or 230vac Operation	275PF/135PC Thermal F Class	275PF/135PC Thermal F Class
Motor Protection	OC Switch Type	OC Switch Type
24v (AC or DC) Operation	275PF/135PC Thermal F Class	275PF/135PC Thermal F Class
Ambient Temperature	-22°F to +150°F	-22°F to +150°F
Operating Range	-20°C to +50°C	-20°C to +50°C



An electric actuator designed for load requirements ranging from 3500 to 4400 lbs. The actuator comes standard with two auxiliary switches (Form C), an internal low power heater, a NEMA 4X environmental rating, and in 24vac, 120vac or 230vac supply voltages. The P4/S mechanical connections utilize an ISO511 mounting system. The P4/S Series can be ordered as an on/off or two position model that can also be used in bump/jog applications. Or it can be ordered with an advanced internal proportional control card that accepts a wide range of control signals, generates multiple feedback signals, and has look-ahead fault prevention.

P 4 - 120 P N 4 - (Options*)



- Options** (Not all combinations are possible - see tables Page 4)
- C** Chain Wheel Override System 12" (3048) Loop Length Std or specify
 - L** Local HCA Control
 - X** 3rd and 4th Auxiliary Switch (Form C)
 - M** Multiple control of On/Off actuators from a common point (parallel)
 - P** Feedback Potentiometer P1=10k Ohm, P2=5k Ohm, P3=10k Ohm
- * Daily cycle is defined as the ratio of run time vs. off time. (Applicator dependent)
 ** Computed Duty cycle is a proprietary function. (Please contact your local distributor for information)



COMPANY

ProMation Engineering, Inc. is a solutions provider to the Industrial, Process Control and high end Commercial Industries. We provide the process and industrial automation markets a wide offering of Electric Spring and Non-Spring Return, Quarter-Turn and Linear actuation devices.



ProMation Engineering's products reach the point of installation through many different paths including Distributors, OEM, and direct sale to end users. ProMation Engineering's focus is directed towards industrial markets. Some of the markets in which we are active are the Petro-Chemical Industry, Corn Refiners Association, The Renewable Fuels Association, North American Wet Millers Association and the Wastewater Treatment Industry.



HISTORY

The company is founded by people with over 75 years experience in the controls and automation industries. Our corporate headquarters and primary manufacturing facility are located in Brooksville, Florida. We operate an efficient organization with dedication to our mission and values statements. Our goal is to establish and nurture win-win relationships with entities focused in our target markets.





MISSION STATEMENT

ProMation Engineering is recognized by its customers in North America as the solution provider for electric actuation in the Industrial Market, Process Control Market, Waste Water Treatment Market, and high end Commercial Markets. The primary product offerings are non-spring and spring return quarter-turn electric and linear electric actuators used in the industrial market for valve and damper applications.



VALUES STATEMENT

The interactions between ProMation Engineering, its customers, management and employees are based on Trust, Honesty, Integrity, Openness and Respect. Our dedication to customers is exemplified by respectable distribution guidelines, competitive pricing structures, and efficient control of inventory levels in order to maximize financial performance at our customer's level as well as at our own manufacturing operations.



PRODUCTS

Designed for the harshness of an industrial environment, our actuators provide on/off, jog or proportional control of Ball Valves, Butterfly valves, Gate Valves, Dampers and other quarter-turn products. Our electric actuators offer a range of 300 to 31,000 "lbs torque. Product design is based on a self-locking worm drive principal which provides for a smooth running, dependable, robust drive system. All models are ISO5211 compliant, have a visual position indicator and utilize a patented manual override for single-handed positioning of the actuator in a power failure situation along with many industry first standard features.

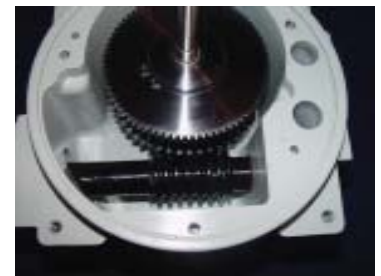
P SERIES ELECTRIC ACTUATORS

Features & Benefits:

- Patented Self Locking Drive...No Brake Required
- Proportional, Jog or On/Off Control...Responds to a wide range of industry-standard signals
- NEMA 4/4X cast Aluminum Alloy housing...Resists Environmental attack.
- ISO5211 Mounting System...International Standard for Actuator Mounting. Eliminates the need for brackets & couplings, resulting in a lower assembly profile.
- Internal Heater...Prevents condensate damage to internal electronics
- Dual SPDT Auxiliary switches...Easily control motor starters and damper based on actuator position
- Modular Design...Eliminates excessive internal wiring. Allows for easy field conversion from 2 position to proportional control.
- Internal Motor Thermal protection (275 deg F / 135 dg C)... Further Protection for the longevity of the drive motor.
- Manual override for single-handed positioning of the actuator in a power failure situation...Allows for SIMPLE positioning of the actuated device in both powered and un-powered states. No levers to push or pull are needed to engage the override hand wheel.
- Easy-to-see Raised Position indicator...Allows for quick visual verification of the true position of the actuated device.
- Two 3/4" NPT entry ports on base...Easily accepts 12 ga field wiring
- Positive Mechanical Stops in base...Overtravel Protection for the actuated device during manual override functions.
- Ambient Operating range -22F to +150F (-30C to +65C)...Allows for applications ranging from Mechanical Rooms to Outdoor Environments.



P7-120N4 - 8900"lbs



Manual Override Worm Detail...Precision Gear Sets



ISO5211 Mounting System

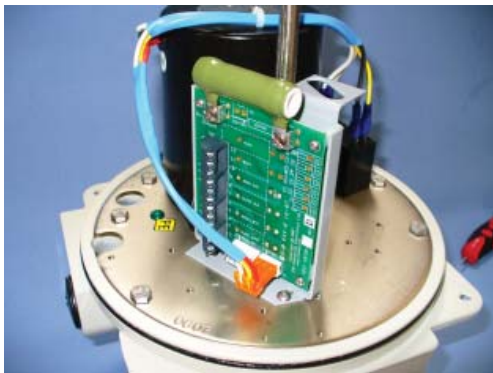


Position Indicator

PA SERIES SPRING RETURN ELECTRIC ACTUATORS

Features & Benefits:

- **Four Torque Ranges from 500”lbs to 2600”lbs.....**
The largest torque offering in it’s class.
- **Mechanical Spring Pack....Does not rely upon batteries for fail-safe operation.**
- **Full-time Manual Override Handwheel...Allows manual positioning of the device during power outages.**
- **Painless Manual Operation requires no pushing/pulling/levers for operation.....Simply the easiest way to provide manual control when required.**
- NEMA 4/4X cast Aluminum Alloy housing...Resists Environmental attack.
- Other Standard features include an ISO5211 Mounting System, Internal Heater and Auxiliary Switches, 3/4” Conduit entry ports (2), Terminals that accept 12 gauge field wiring, and an easily seen top mounted Position Indicator.



Engineered to eliminate wiring errors, increase reliability through the elimination of connection points, and provide simplicity for technicians and end-users alike.



Our Proportional Control Card is designed to respond to industry standard control signals while monitoring dynamic operating parameters and responding to or alarming of processes that are trending



**PROMATION
ENGINEERING**

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Save Time ✓

Save Money ✓

Save Aspirin ✓



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16138 Flight Path Drive Brooksville, FL 34604

Phone (352) 544-8436 Fax (352) 544-8439

email: jeffj@promationei.com

Sales and Marketing: Jeff A. Jones Product Management: Brian J. Wheeler

Technical Support: Larry L. Swafford Administration: Sandra L. Bardelli

