

## PROMATION SERIES ELECTRIC ACTUATOR

# Electric Actuators Built For Industrial and Commercial Applications That Require Optimal Performance



**P1 Quarter Turn Actuator** 



**P2 Quarter Turn Actuator** 

Innovative Quarter-Turn Actuators

### **Full Line of Actuators**

Quarter Turn to 40,500 in lb Spring Return to 2300 in lb



**P4 Quarter Turn Actuator** 

## **Multiple Configurations**

On/off, jog or proportional control 24VDC through 575/3/60 applications Local Control Stations

# **Complete Support**

Full documentation
RapidQuote
ProMation Engineering Services



**Control Station** 

Many Actuators Look The Same Outside,
The Promation Difference is On The Inside

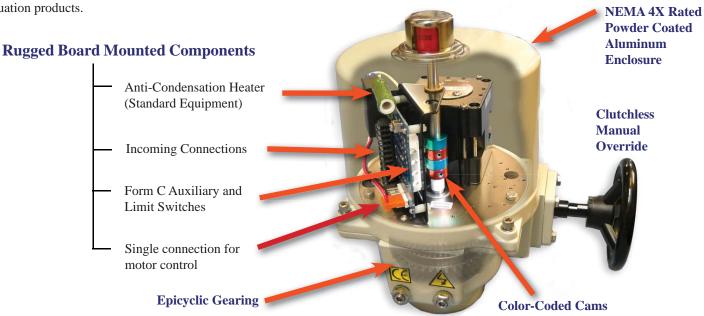


#### **DESIGN FEATURES AND STANDARDS**

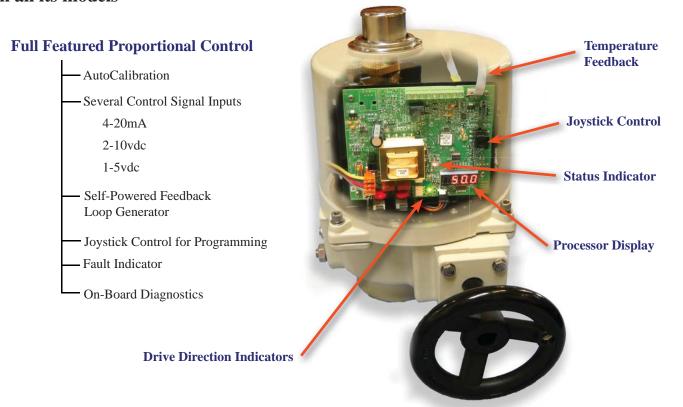
Flo-Tite's Promation Series offers a full line of industrial actuators that are designed & constructed to meet the demands of industrial installations & applications.

#### **Rugged Board Design**

Proprietary PC Boards with industrial grade components soldered into place eliminate 90% of the internal wiring found in most actuation products.



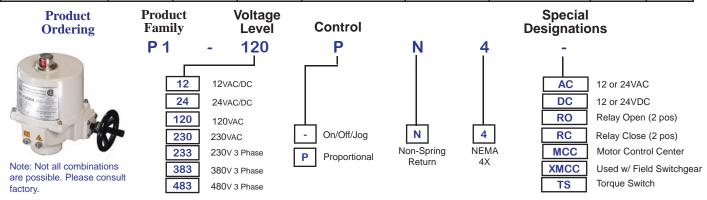
Flo-Tite ProMation Series offers full proportional control with several control options on all its models





#### **Quarter Turn Non-Spring Return Actuators**

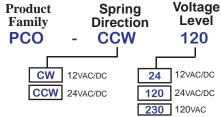
Product Family	Torque Output		Run Time	Draw	Mounting Information		Height	Weight
	in lbs	Nm	Sec	(amp @ 120 vac)	ISO 5211	8pt Female Drive mm	in	lbs
PZ6	55	6	20	0.3	F03/F05	14	5	3
PZ15	135	15	20	0.3	F03/F05	14	5	3
P1	300	35	12	0.5	F03/F05	14	6	5
P1.A	445	50	20	0.5	F07	17	9	8
P1.B	135	15	8	0.5	F03/F05 14		6	5
P1.C	135	15	3	0.5	F03/F05	14	6	5
P2.0	600	67	17	1	F07	22	11.4	25
P2	800	90	15	1	F07	22	11.4	25
P3.0	1,150	130	22	1	F07	22	11.4	25
P3	1,335	150	22	1	F07	22	11.4	25
P4.0	2,200	248	16	1.3	F10	35	12.5	49
P4	3,500	400	16	1.3	F10	35	12.5	49
P5	4,400	500	22	1.5	F10	35	12.5	49
P6	5,800	650	28	1.8	F10	35	12.5	49
P7	8,900	1,000	46	3.2	F12	36	16.5	80
P8	13,500	1,500	46	4	F12	36	16.5	80
P9	17,500	2,000	58	3.2	F16	75*	23.2	125
P10	22,000	2,500	58	4	F16	75*	23.2	125
P11	26,500	3,000	58	3	F16	75*	23.2	125
P13	40,500	4,500	80	3.5	F25	72*	22.5	179

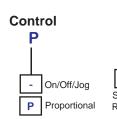


#### **Quarter Turn Spring Return Failsafe Electric Actuators**

Product Family	Torque Output		Run Time	Run Time   Spring Return Time (Sec)		Draw	Mounting Dimension		Height	Weight	
	in lbs	Nm	Sec	24 v	120 /230 v	(amp @ 120 vac)	ISO 5211	8 pt Female Drive mm	in	lbs	
PA	450	50	7	3	3	1.5	F07	17	15.75	59	
PB	1,150	130	7	3	8	3.8	F10	22	18.82	124	
PC	1,750	200	11	3	12	3.8	F12	27	21.57	209	
PD	2,300	260	17	3	12	3.8	F12	27	21.57	209	
With Manual Override											
PAO	450	50	7	3	3	1.5	F07	17	21.06	82	
PBO	1,150	130	7	3	8	3.8	F10	22	25.3	163	
PCO	1,750	200	11	3	12	3.8	F12	27	29.05	297	
PDO	2,300	260	17	3	12	3.8	F12	27	29.05	297	









Note: 24v available in on/off only Note: Not all combinations are possible. Please consult factory.



#### **Extraordinary Electrical Engineering Applied to Industrial Actuators**

#### **Exclusive ProMation AutoCalibration Eases Installation**

ProMation Engineering's proportional controls are the **only actuators that offer AutoCalibration** that allows set up at the push of a button; making installation, maintenance and re-installation easy and repeatable.

#### Fault Indicator and On-Board Diagnostics Can Reduce Wiring Issues

The ProMation proportional control board will indicate when input signals are miswired and will not operate. On-Board diagnostics show status of the actuator, incoming signal, feedback signal as well as a history of operating parameters for additional process analysis.

#### **Multiple Input Signals Increase Flexibility**

ProMation Engineering proportional controls are compatible with most industrial control signals (4-20mA, 1-5vdc or 2-10vdc). BUS network interfacing is also available.

#### **Wide Voltage Range for All Industrial Applications**

ProMation Engineering manufactures actuators to operate under 12VDC/VAC, 24VDC/VAC, 120VAC, 230VAC power, as well as 230V, 380V, 460V & 575V 3 phase power.

#### **Local Control Stations (LCS)**

ProMation LCS's can be remotely located or directly mounted on the actuator providing an array of controls and displays of functions being performed. LCS's are typically used when there is a need to take control of an actuator at or near the actuator's location.

The LCS's can be configured in a wide range of options from Mode Select and On/Off switches to units indicating proportional signals, valve position, power on, valve open and valve closed.



LCS J/K

#### **Power Backup Units (PBU)**

ProMation PBU's are designed for Quarter Turn (P) and Linear (PL) series of actuators. The PBU's provide backup power in critical applications. Upon loss of power, the actuators are driven to a field selectable position, such as open or closed.

PBU options include visual indication of the actuator position as well as remote status of incoming power and battery system.



#### **Full Documentation**

We offer complete wiring diagrams, field installation manuals and set up documentation for all our products, both in printed and digital form. We regularly host customized educational webinars for our customers.

#### **Industrial Applications**

ProMation Engineering actuators have been installed to operate process controls such as butterfly valves, ball valves, high performance butterfly valves, plug valves and dampers, in a broad range of demanding industrial applications.



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