ACTUATORS ELECTRIC - NEMA 7

## Alloy Valves and Control



Torque Rating
800-13,250 in.lbs
Features
Powder Coated Aluminum Body
Position Indicator
Proportional, On/Off/Jog Control Internal Heater
Dual Auxilliary Switches
Self Locking Drive
ISO 5211 Direct Mount
NEMA 7

Temperature Range
$-22{ }^{\circ} \mathrm{F}$ to $125^{\circ} \mathrm{F}$
Supply Voltage
24V AC/DC
120 V AC
230V AC
Operation Speed
Between 15 \& 55 seconds Depending Upon Model

## Industries

Chemical
Food Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam
Enclosures Certified to
Class I, Division 1, Groups C, D.
Class II, Division 1, Groups E, F, G. Class III; T6 $\left(85^{\circ} \mathrm{C}\right)$
Ex d IIB Gb T6; Ex tb IIIC T85 ${ }^{\circ} \mathrm{C}$ Db Class I, Zone 1, AEx d IIB Gb T6
Zone 21, AEx tb IIIC T85 ${ }^{\circ} \mathrm{C}$ Db

## Alloy Valves and Control

## Quarter Turn Explosion Proof Actuators

## Hazardous Applications - Rugged and reliable, AVCO

 electric actuators are designed for use in Oil and Gas, Mining, Food Processing, Chemicals and Power applications controlling butterfly valves, ball valves, high performance valves, plug valves, gate valves and dampers. Call or email to have our actuator experts help you with your needs.Explosion Proof - The AVCO electric explosion proof actuators are designed for use in hazardous locations. They meet the latest Class I and Class II Division 1 standards per UL 1203. The explosion proof actuators share the same electronic and mechanical components as the AVCO Standard Location products and give you the same reliability and performance that you've come to expect from our Standard Location quarter turn actuators.

Features - The AVCO electric actuators feature the only hazardous duty electric actuator that comes with a standard raised indicator allowing easy identification of actuator position. Other standard items include an anti-condensation heater, two auxiliary switches, ISO 5211 mounting, permanently lubricated locking gear train, and a clutchless manual handwheel. In addition to on/off control, the explosion proof actuators can have proportional control with $4-20 \mathrm{~mA}, 0-10,2-10$, and $1-5 \mathrm{vdc}$ input and feedback. Also available: torque switch to protect motors and valves, auxiliary switches, and 0-220 rotation.

Torque Range and Voltages - The explosion proof actuators range in torque from 800 to 13,250 in lbs and are available in $24 \mathrm{vac}, 24 \mathrm{vdc}$, 120 vac , and 230 vac voltages.
 The output gearing and mounting patterns are the same as our standard product and therefore fully compatible with valve, damper couplers and linkages that are used for nearly any industrial application.

Explosion Proof Actuator Specifications

| Product Family | Torque Output in Ibs | Nm | Actuator Run Time Draw (seconds) |  |  | Mounting Information |  | Shipping Weight (lbs / kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | (amps) | 50 Hz | 60 Hz | 5211 | (mm) |  |
| P0800 | 800 | 90 | 1.0 | 17 | 15 | F07 | 22 | 40 / 18 |
| P1300 | 1,335 | 150 | 1.2 | 26 | 22 | F07 | 22 | $40 / 18$ |
| P3500 | 3,500 | 400 | 1.9 | 18 | 16 | F10 | 35 | $58 / 26$ |
| P4400 | 4,400 | 500 | 2.0 | 25 | 22 | F10 | 35 | $58 / 26$ |
| P5800 | 5,750 | 650 | 2.1 | 31 | 28 | F10 | 35 | $58 / 26$ |
| P8900 | 8,900 | 1,000 | 3.1 | 55 | 46 | F14 | 36 | $93 / 42$ |
| P13500 | 13,250 | 1,500 | 3.3 | 55 | 46 | F14 | 36 | $93 / 42$ |

Output Drives are 8 point female double-square. Drive Inserts are available for nearly any application.

## ACTUATORS ELECTRIC - NEMA 7

## Alloy Valves and Control



DIMENSIONAL DATA (inches)

| MODEL | A | $A^{\text {ts }}$ | B | $\mathrm{B}^{\text {ts }}$ | C | D | E | F | G | H | I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P0800/1300 | 14.0 | 15.5 | 9.0 | 10.5 | 9.7 | 3/4 NPT | 5.8 | 3.4 | 9.8 | 14.1 | 4.8 |
| P3500/4400/5800 | 16.7 | 19.2 | 10.8 | 13.4 | 11.2 | 3/4 NPT | 7.3 | 5.0 | 11.5 | 15.3 | 7.6 |
| P8900/13500 | 14.9 | 18.4 | 9.0 | 12.6 | 11.2 | 3/4 NPT | 9.3 | 5.0 | 11.5 | 18.8 | 11.6 |
|  | J | K | L | M | N | 0 | W | X | Y | Z |  |
| P0800/1300 | 3.5 | M8 x 0.8" DP | 2.8 | F07 | 0.866 | 8.0 | 1.18 | 0.866 | 0.866 | 1.18 |  |
| P3500/4400/5800 | 4.9 | M10 x 0.8" DP | 4.0 | F10 | 1.378 | 8.0 | 1.89 | 1.378 | 1.378 | 1.58 |  |
| P8900/13500 | 7.1 | M16 x 1.2" DP | 5.5 | F14 | 1.417 | 8.0 | 1.93 | 1.417 | 1.417 | 1.77 |  |

## ACTUATORS ELECTRIC - NEMA 7

## Alloy Valves and Control

## Available Options (Factory Installed)

- Proportional Control - 4-20mA, $0-10 \mathrm{VDC}, 2-10 \mathrm{VDC}, 1-5 \mathrm{VDC}$ input
- Mechanical Torque Switch Assembly.
- Rotation modifications for up to 220 degree rotation.
- Auxiliary Switch Set. Provides two additional auxiliary switches, for a total of four.
- Local Control Stations and Power Backup Units are available if located outside hazardous area and wired to code.


Torque Switch Option

HOW TO ORDER

| P0800 | 7X | 120A | - | - |
| :---: | :---: | :---: | :---: | :---: |
| Series | Enclosure | Voltage | Control | Options |
| P0800-800 in.lbs model <br> P1300-1335 in.lbs model <br> P3500-3500 in.lbs model <br> P4400-4400 in.lbs model <br> P5800-5750 in.lbs model <br> P8900-8900 in.lbs model <br> P13500-13250 in.lbs model | 7X-NEMA 7 | $\begin{aligned} & 24 \mathrm{~A}-24 \mathrm{~V} \text { AC } \\ & 24 \mathrm{D}-24 \mathrm{~V} \text { DC } \\ & 120 \mathrm{~A}-120 \mathrm{~V} \mathrm{AC} \\ & 230 \mathrm{~A}-230 \mathrm{VAC} \end{aligned}$ | blank - On/Off <br> P - Proportional <br> M - Modbus | TS - Torque Switch |

Example ordering codes:
P0800-7X-120A $=800$ in.lbs, 120 V AC, On/Off control electric actuator
P1300-7X-230A-P = 1335 in.lbs, 230V AC, proportional control electric actuator

