**GENERAL DESCRIPTION**

The LA-5000 Series are bi-directional, linear actuators internally geared to produce up to 6,500 lbs. (28,913 N) of thrust, and offer continuous modulating duty up to 4,000 starts per hour. This series of actuators combine the scotch-yoke output gearing design of the SM-5000 Series with a three-point toggle mechanism to convert rotary motion to linear motion. The LA-5000 Series is ideally suited for any sliding stem valve or other applications requiring a high-thrust, short stroke linear actuator.

All LA-5000 Series actuators are also available with an internal amplifier (excluding LA-5140). They are all full-featured ac or dc switching devices designed to work with the actuator for closed loop control.

**FEATURES**

- “Scotch-yoke” final output increases thrust at ends of travel for positive seating and unseating of valves.
- Permanently lubricated for any position mounting
- Internal or remote mounted amplifier
- Self-locking drive system to hold in last position and prevent backdriving up to thrust rating
- Manual handcrank, safely isolated from motor, with overload indication and shear pin protection
- AC input power (single and three phase) or DC input power versions
- Wide ambient temperature range
- All mounting and interface hardware supplied
- Full two year warranty

**BASE MODEL INCLUDES:**

- Motor
- Manual override
- Cast aluminum, painted NEMA 4 (IP65) enclosure
- Anti-condensation heater with thermostat
- Automatic thrust limiting
- Internal Scotch-yoke gear train
- 4-20 mA transmitter for customer use (amplifier models only)
- End of travel switches, not for customer use

**POPULAR OPTIONS** (See Pages 197-206)

- Split command input
- Position switch outputs
- Auxiliary position limit switches
- Electric brake
- Local Auto/Manual toggle or key lock rotary switches
- Open-Close-Stop pushbuttons
- Pilot lights
- Extended temperature ranges
- Local position indicator
- Thrust or position seating of valve
- Battery back-up, RP-4000

**AMPLIFIER FEATURES**

- Digital or analog available
- Isolated, two-wire, 4-20mA output
- Push button set-up for digital amplifier
- Customer-adjustable zero and span
- Adjustable deadband
- Accepts either voltage or current command inputs
- Selectable options for Loss-of-Signal action:
  - Lock in place
  - Run to preset
- Digital amplifier proportional control
- Soft seat at ends of travel
- AC triac switching of AC motors and IGBT for DC motors for increased life

**SELECT BY THRUST & STROKE**

<table>
<thead>
<tr>
<th>Actuator Series</th>
<th>Minimum Stroke inch (mm)</th>
<th>Maximum Stroke inch (mm)</th>
<th>Maximum Thrust lbf. (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-5100</td>
<td>0.75 (19)</td>
<td>2.25 (57)</td>
<td>3000 (13344)</td>
</tr>
<tr>
<td>LA-5200</td>
<td>1.00 (25)</td>
<td>4.00 (102)</td>
<td>6500 (28912)</td>
</tr>
</tbody>
</table>

Due to the complexities of the LA-5000 Series, please consult factory for exact model specification and pricing.
BASIC SPECIFICATIONS FOR LA-5000 SERIES ACTUATORS

Stroke: 0.75 in. (19mm) to 5.25 in. (133mm)

Drive Train: Scotch-yoke

Temperature Limits: -40° to 150° F (-40° to 65° C)
(For higher temperatures consult factory)

Environmental Ratings:
LA-5100 - NEMA 4 (IP65) Explosion Proof, Class I, Division 1, Groups C & D. Class II, Division 1, Groups E, F & G
LA-5200 - NEMA 4 (IP65)

Enclosure: Cast aluminum with polyurethane coating

Back Drive: Self-locking up to twice the thrust rating

Field Wiring: To barrier terminal blocks

Thrust Limiting: 10 Amp, SPDT switch, one for each direction (Extend & Retract). Switch will change states when thrust exceeds rated thrust for actuator.
(20 Amp switches for LA-5200).

Approximate Weight:
LA-5100: 125 lbs. (57 kg)
LA-5200: 245 lbs. (111 kg)

Approvals: See page 207

Position Switch Rating: 120/240 Vac, 20 Amp

ACTUATOR/AMPLIFIER SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Position Accuracy</td>
<td>1.0 % of full travel</td>
<td>0.25 % of full travel</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.5 % of full travel</td>
<td>0.25 % of full travel</td>
</tr>
<tr>
<td>Hysteresis</td>
<td>0.5 % of full travel</td>
<td>0.25 % of full travel</td>
</tr>
<tr>
<td>Linearity</td>
<td>+/-1 % of full travel</td>
<td>+/-0.5 % of full travel</td>
</tr>
<tr>
<td>Deadband</td>
<td>0.75 % of full travel</td>
<td>0.5 % of full travel</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.75 % of full travel</td>
<td>0.5 % of full travel</td>
</tr>
</tbody>
</table>

See page 31 for additional features of Jordan Controls analog and digital amplifiers.

REMOTE AMPLIFIER CHART

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Remote Mounted Amplifier</th>
<th>Catalog Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-5115-N</td>
<td>AD-8900</td>
<td>177</td>
</tr>
<tr>
<td>LA-5120-N</td>
<td>AD-8240</td>
<td>173</td>
</tr>
<tr>
<td>LA-5140-N</td>
<td>AD-7540</td>
<td>170</td>
</tr>
<tr>
<td>LA-5160-N</td>
<td>AD-7830/AD-9120</td>
<td>180/184</td>
</tr>
<tr>
<td>LA-5190-N</td>
<td>AD-8240</td>
<td>173</td>
</tr>
<tr>
<td>LA-5210-N</td>
<td>AD-8900</td>
<td>177</td>
</tr>
<tr>
<td>LA-5220-N</td>
<td>AD-8240</td>
<td>173</td>
</tr>
<tr>
<td>LA-5260-N</td>
<td>AD-7830/AD-9120</td>
<td>180/184</td>
</tr>
</tbody>
</table>
# LA-5100 SERIES SELECTION CHART

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Basic Model</td>
<td>3 phase, 208/240/380/480 Vac, modulating duty, without built-in amplifier</td>
<td>120 Vac, modulating duty, without built-in amplifier</td>
<td>24 Vdc, modulating duty, (if amplifier desired, see AD-7540)</td>
<td>90 Vdc, modulating duty, without built-in amplifier</td>
<td>LA-5160 with built-in analog amplifier, 120/208/240 Vac, 1 Ph; 208/240 Vac, 3 Ph</td>
<td>LA-5160 with built-in digital amplifier, 120/208/240 Vac, 1 Ph; 208/240 Vac, 3 Ph</td>
<td>1 phase, 240 Vac, modulating duty, without built-in amplifier</td>
<td>LA-5115 with built-in analog amplifier</td>
</tr>
</tbody>
</table>


| Speed Thrust | Consult Factory for Model Designation and Pricing | Consult Factory for Model Designation and Pricing | *See valve mounting options L001 through L003* |
# LA-5100 STANDARD OPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Toggles, Lights</strong></td>
<td></td>
</tr>
<tr>
<td>A001</td>
<td>Local Auto/Manual Toggle Switches</td>
<td></td>
</tr>
<tr>
<td>A002</td>
<td>INC/OFF/DEC Toggle Switches</td>
<td></td>
</tr>
<tr>
<td>A003</td>
<td>Local Auto/Manual Toggle Switch &amp; (INC/OFF/DEC)</td>
<td></td>
</tr>
<tr>
<td>A004</td>
<td>Open-Close-Stop Push Buttons - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A005</td>
<td>Two Pilot Lights - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A006</td>
<td>Two Position Auto/Manual Selector Switches - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A007</td>
<td>Three Position INC/OFF/DEC Selector Switches - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A009</td>
<td>ON/OFF Toggle Power Switch</td>
<td></td>
</tr>
<tr>
<td>A010</td>
<td>Local Auto/Manual Switches &amp; (INC/OFF/DEC)</td>
<td></td>
</tr>
<tr>
<td>A011</td>
<td>Key locks for Auto/Manual rotary switches - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A012</td>
<td>ON/OFF Rotary Power Switch - NEMA 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Feedback</strong></td>
<td></td>
</tr>
<tr>
<td>F001</td>
<td>Potentiometer, 1000 ohms</td>
<td></td>
</tr>
<tr>
<td>F002</td>
<td>Tandem Potentiometer, 1000 ohms each</td>
<td></td>
</tr>
<tr>
<td>F003</td>
<td>Potentiometer, 5000 ohms</td>
<td></td>
</tr>
<tr>
<td>F004</td>
<td>Potentiometer, 10,000 ohms</td>
<td></td>
</tr>
<tr>
<td>F005</td>
<td>Transmitter, 4-20 mA output</td>
<td></td>
</tr>
<tr>
<td>F006</td>
<td>One Potentiometer, 1000 ohms plus</td>
<td></td>
</tr>
<tr>
<td>F008</td>
<td>Anti Backlash Feedback Gear</td>
<td></td>
</tr>
<tr>
<td>F999</td>
<td>Special Potentiometer (consult factory)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Identification/Certifications</strong></td>
<td></td>
</tr>
<tr>
<td>J001</td>
<td>CE Marking, AC input only (only available for units with amplifiers)</td>
<td></td>
</tr>
<tr>
<td>J002</td>
<td>Stainless Steel Tag</td>
<td></td>
</tr>
<tr>
<td>J004</td>
<td>One year extended warranty</td>
<td></td>
</tr>
<tr>
<td>J005</td>
<td>Two year extended warranty</td>
<td></td>
</tr>
</tbody>
</table>

# LA-5100 SPECIAL OPTIONS

(Consult factory for special requirements)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Connectors</strong></td>
<td></td>
</tr>
<tr>
<td>C001</td>
<td>Plug-In Cannon Type Connector on Enclosure</td>
<td></td>
</tr>
<tr>
<td></td>
<td>for Power and Control</td>
<td></td>
</tr>
<tr>
<td>C002</td>
<td>Mating Plug-In Cannon Type Connector</td>
<td></td>
</tr>
<tr>
<td></td>
<td>for Power and Control</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Enclosure</strong></td>
<td></td>
</tr>
<tr>
<td>E003</td>
<td>Explosion Proof - Class 1, Div. 1, Groups C &amp; D,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>indoor/outdoor (NEMA 7)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Feedback</strong></td>
<td></td>
</tr>
<tr>
<td>F008</td>
<td>Contactless 4-20 mA</td>
<td></td>
</tr>
<tr>
<td>F009</td>
<td>Contactless 0-10Vdc</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>3-Phase Controls</strong></td>
<td></td>
</tr>
<tr>
<td>G001</td>
<td>3-Phase Contactor with Overloads</td>
<td></td>
</tr>
<tr>
<td>G002</td>
<td>Control Transformer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(120 Vac control voltage)</td>
<td></td>
</tr>
<tr>
<td>G003</td>
<td>Control Transformer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(240 Vac control voltage)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Motor</strong></td>
<td></td>
</tr>
<tr>
<td>M002</td>
<td>3 Phase, 575 Vac</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Special Electrical Options</strong></td>
<td></td>
</tr>
<tr>
<td>X001</td>
<td>24 Vdc power supply, 320 mA, 100-240 Vac input</td>
<td></td>
</tr>
<tr>
<td>X004</td>
<td>Voltage to current converter</td>
<td></td>
</tr>
<tr>
<td>X005</td>
<td>Loop powered 4 to 20 isolator, M-system</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HSN-IAA</td>
<td></td>
</tr>
<tr>
<td>X006</td>
<td>± 15 Vdc power supply</td>
<td></td>
</tr>
<tr>
<td>X010</td>
<td>Customer command and feedback, 0-10 Vdc or 0-5 Vdc</td>
<td>instead of 4-20 mA</td>
</tr>
<tr>
<td>X019</td>
<td>AC Power Sensing with Output</td>
<td></td>
</tr>
</tbody>
</table>

For a full description of options, go to the Complete Listing of Options starting on page 197.
## LA-5200 SERIES SELECTION CHART

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Model</td>
<td>3 phase, 208/240/380/480 Vac, modulating duty, without built-in amplifier</td>
<td>LA-5210 with built-in analog amplifier</td>
<td>1 phase, 120/240 Vac, modulating duty, without built-in amplifier</td>
<td>LA-5220 with built-in digital amplifier</td>
<td>380 Vac, 3 phase, 50 Hz (LA-5210-N or LA-5210-A)</td>
<td>LA-5260 with built-in analog amplifier, 120/208/240 Vac, 1 Phase</td>
<td>LA-5260 with built-in digital amplifier, 120/208/240 Vac, 1 Phase</td>
</tr>
<tr>
<td>1 Basic Model</td>
<td>LA-5220 with built-in digital amplifier, 208/240/380/480 Vac, modulating duty, without built-in amplifier</td>
<td>LA-5220 with built-in digital amplifier, 120/208/240 Vac, 1 Phase</td>
<td>240 Vac, 1 Phase, 50/60 Hz (LA-5220-N, LA-5220-D, LA-5260-A or LA-5260-D)</td>
<td>480 Vac, 3 Phase, 50/60 Hz (LA-5210-N or LA-5210-A)</td>
<td>240 Vac, 3 Phase, 50/60 Hz (LA-5210-N or LA-5210-A)</td>
<td>90 Vdc (perm. magnet field), modulating duty, without built-in amplifier</td>
<td></td>
</tr>
<tr>
<td>2 Input Voltage</td>
<td>1: 120 Vac, 1 Phase, 50/60 Hz (LA-5220-N, LA-5220-D, LA-5260-A or LA-5260-D)</td>
<td>2: 240 Vac, 1 Phase, 50/60 Hz (LA-5220-N, LA-5220-D, LA-5260-A or LA-5260-D)</td>
<td>3: 380 Vac, 3 Phase, 50 Hz (LA-5210-N or LA-5210-A)</td>
<td>4: 480 Vac, 3 Phase, 50/60 Hz (LA-5210-N or LA-5210-A)</td>
<td>5: 240 Vac, 3 Phase, 50/60 Hz (LA-5210-N or LA-5210-A)</td>
<td>7: 90 Vdc (LA-5260-N)</td>
<td>9: 208 Vac, 1 Phase, 50 Hz (LA-5260-A or LA-5260-D)</td>
</tr>
<tr>
<td>3 Speed</td>
<td>Consult Factory for Model Designation and Pricing</td>
<td>Consult Factory for Model Designation and Pricing</td>
<td>208 Vac, 1 Phase, 50 Hz (LA-5260-A or LA-5260-D)</td>
<td>10: 208 Vac, 3 Phase, 50 Hz (LA-5210-N or LA-5210-A)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Thrust</td>
<td>Consult Factory for Model Designation and Pricing</td>
<td>Consult Factory for Model Designation and Pricing</td>
<td>90 Vdc (perm. magnet field), modulating duty, without built-in amplifier</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Linear Travel</td>
<td>Consult Factory for Model Designation and Pricing</td>
<td>Consult Factory for Model Designation and Pricing</td>
<td>240 Vac, 3 Phase, 50/60 Hz (LA-5220-N, LA-5220-D, LA-5260-A or LA-5260-D)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*See valve mounting options L001 through L003*
## LA-5200 STANDARD OPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Connectors</strong></td>
<td></td>
</tr>
<tr>
<td>A001</td>
<td>Local Auto/Manual Toggle Switches</td>
<td></td>
</tr>
<tr>
<td>A002</td>
<td>INC/OFF/DEC Toggle Switches</td>
<td></td>
</tr>
<tr>
<td>A003</td>
<td>Local Auto/Manual Toggle Switches &amp; INC/OFF/DEC Toggles (A001 &amp; A002)</td>
<td></td>
</tr>
<tr>
<td>A004</td>
<td>Open-Close-Stop Push Buttons - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A005</td>
<td>Two Pilot Lights - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A006</td>
<td>Two Position Auto/Manual Selector Switches - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A007</td>
<td>Three Position INC/OFF/DEC Selector Switches - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A009</td>
<td>ON/OFF Toggle Power Switch</td>
<td></td>
</tr>
<tr>
<td>A010</td>
<td>Local Auto/Manual Switches &amp; (INC/OFF/DEC) Switches - NEMA 4 (A006 &amp; A007)</td>
<td></td>
</tr>
<tr>
<td>A011</td>
<td>Key locks for Auto/Manual rotary switches - NEMA 4</td>
<td></td>
</tr>
<tr>
<td>A012</td>
<td>ON/OFF Rotary Power Switch - NEMA 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Identification/Certifications</strong></td>
<td></td>
</tr>
<tr>
<td>J002</td>
<td>Stainless Steel Tags</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Valve Mounting</strong></td>
<td></td>
</tr>
<tr>
<td>L001</td>
<td>Mounting of actuator to valve by customer. Compatible hardware supplied by Jordan Controls per customer specifications. Complete, certified valve drawings showing topworks detail must be submitted with order.</td>
<td></td>
</tr>
<tr>
<td>L002</td>
<td>Valve provided by customer for mounting and set-up with actuator by Jordan Controls.</td>
<td></td>
</tr>
<tr>
<td>L003</td>
<td>Valve provided by Jordan Controls, mounted and set-up with actuator per customer specifications.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Position Indicator</strong></td>
<td></td>
</tr>
<tr>
<td>P001</td>
<td>Local Position Indicator</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Auxiliary Switches</strong></td>
<td></td>
</tr>
<tr>
<td>S001</td>
<td>Two Adjustable Position Switches, SPDT, 20 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td>S002</td>
<td>Two Adjustable Position Switches, DPDT, 20 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td>S003</td>
<td>Four Adjustable Position Switches, SPDT, 20 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td>S004</td>
<td>Four Adjustable Position Switches, DPDT, 20 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td>S014</td>
<td>Two nonadjustable end of travel position switches, SPDT, 20 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td>S016</td>
<td>Two nonadjustable thrust limit switches, SPDT, 10 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td>S019</td>
<td>Two nonadjustable end of travel position switches, SPST, 20 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td>S020</td>
<td>Two nonadjustable thrust limit switches, SPST, 20 Amp, 120/240 Vac</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Painting/Coating</strong></td>
<td></td>
</tr>
<tr>
<td>W002</td>
<td>Two Part Epoxy</td>
<td></td>
</tr>
</tbody>
</table>

## LA-5200 SPECIAL OPTIONS

(Consult factory for special requirements)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Connectors</strong></td>
<td></td>
</tr>
<tr>
<td>C001</td>
<td>Plug-In Cannon Type Connector on Enclosure for Power and Control</td>
<td></td>
</tr>
<tr>
<td>C002</td>
<td>Mating Plug-In Cannon Type Connector on Enclosure for Power and Control</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Feedback</strong></td>
<td></td>
</tr>
<tr>
<td>F008</td>
<td>Contactless 4-20 mA</td>
<td></td>
</tr>
<tr>
<td>F009</td>
<td>Contactless 0-10Vdc</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Motor</strong></td>
<td></td>
</tr>
<tr>
<td>M001</td>
<td>3 Phase, 575 Vac</td>
<td></td>
</tr>
</tbody>
</table>

For a full description of options, go to the Complete Listing of Options starting on page 197.
LA-5100 MAJOR DIMENSIONS

INCHES  (MILLIMETERS)

15.74 [399.90]

1.25–1.5 NPT
CONDUIT ENTRY

1.89 [48.01]

4.00
R.

6.57 [166.92]

6.50 [165.10]

5.89 [149.61]

9.28 [235.71]

2.63 [66.68]

15.00 RADIUS
REQUIRED
CLEARANCE
FOR ACCESS TO
INTERNAL
COMPONENTS

3/8-16 1/4" D.P.
6 HOLE'S BOTTOM ONLY

19.46 [494.32]

12.50 [317.50]

5.50 [139.70]

DIMENSION TO MATCH VALVE

LUGGED CLAMP NUT
NOT TO EXCEED 4.46
DA.

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LA-5200 MAJOR DIMENSIONS

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