The Jastram Model S Actuators are specifically certified for use in commercial marine hydraulic steering systems. Their rugged steel construction includes many standard features resulting from our long experience in the manufacture, operation and service of steering systems.

Model S Actuators include features many manufacturers do not provide but are essential to a high quality, reliable steering gear for commercial marine application:

- Micro-honed heavy wall cylinder barrel
- Precision ground, chrome-plated piston rod
- Oversize piston and piston rod bearings
- Piston rod wiper
- Tie-rod construction
- Self-aligning spherical bearings
- SAE outlet ports

Type Approved Product; see details on back page
### Torque Rating

<table>
<thead>
<tr>
<th>Gear Model</th>
<th>Torque (ft-lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2-11-1</td>
<td>1.1</td>
</tr>
<tr>
<td>S2-16-1</td>
<td>1.6</td>
</tr>
<tr>
<td>S2-21-1</td>
<td>2.1</td>
</tr>
<tr>
<td>S2-26-1</td>
<td>2.6</td>
</tr>
</tbody>
</table>

Note: Hoses, shut-off valves and tiller pins are not supplied with Model S Actuators.

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### Dimensions

**S2** indicates independent steering. **S4** indicates a four-blade system.

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### Tiller Motor Specifications

<table>
<thead>
<tr>
<th>NO. OF ACTUATORS</th>
<th>TORQUE (ft-lb)</th>
<th>Rudder Angle (deg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2</td>
<td>2</td>
<td>30</td>
</tr>
<tr>
<td>S4</td>
<td>4</td>
<td>30</td>
</tr>
</tbody>
</table>

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### Summary

- All other actuators require 4 tail mounting bolts (K).
- Other actuator stroke lengths are available upon request.
- All other actuators require 4 tail mounting bolts (K).
Jastram Model S steering gears are supplied with either two or four Model S actuators and can be used with single, twin or multiple rudders. These actuators and tillers are designed and manufactured to meet the standards of all major classification societies. Model S hydraulic actuators have passed rigorous inspection and testing and are CERTIFIED UNDER THE ABS, DNV & GL TYPE APPROVAL PROGRAMS.

The S Model Actuators are Type Approved for under the following standards:
- ABS Type Approved Product under 2006 Building and Classing Steel Vessels 4-3-4/7.3.
- DNV Type Approved for Classification of Ships on the Model S-300, S-400, S-500, S-600, S-800 & S-1000 hydraulic actuators.

Data is subject to change without notice.