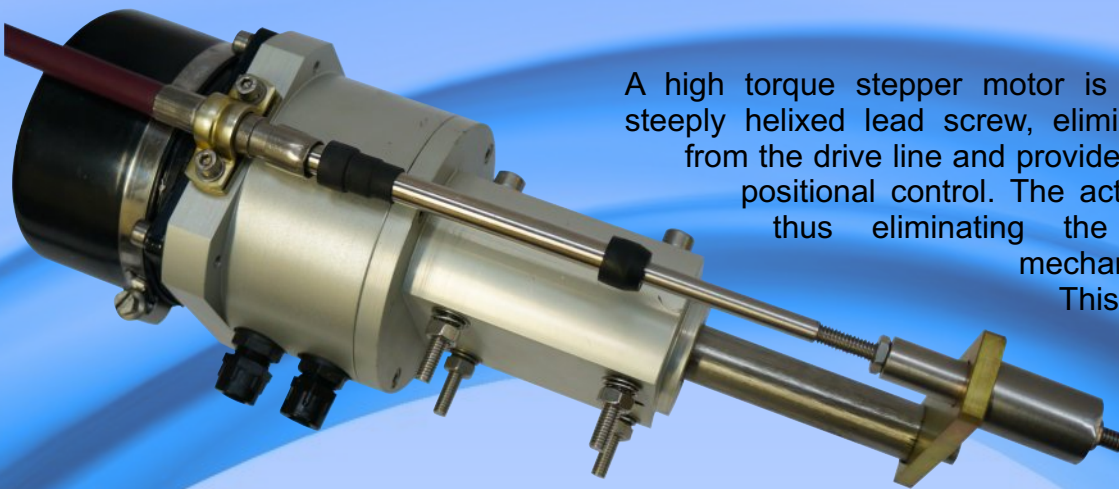


## ELECTRO-MECHANICAL INTERFACE FOR PITCH AND SPEED CONTROL

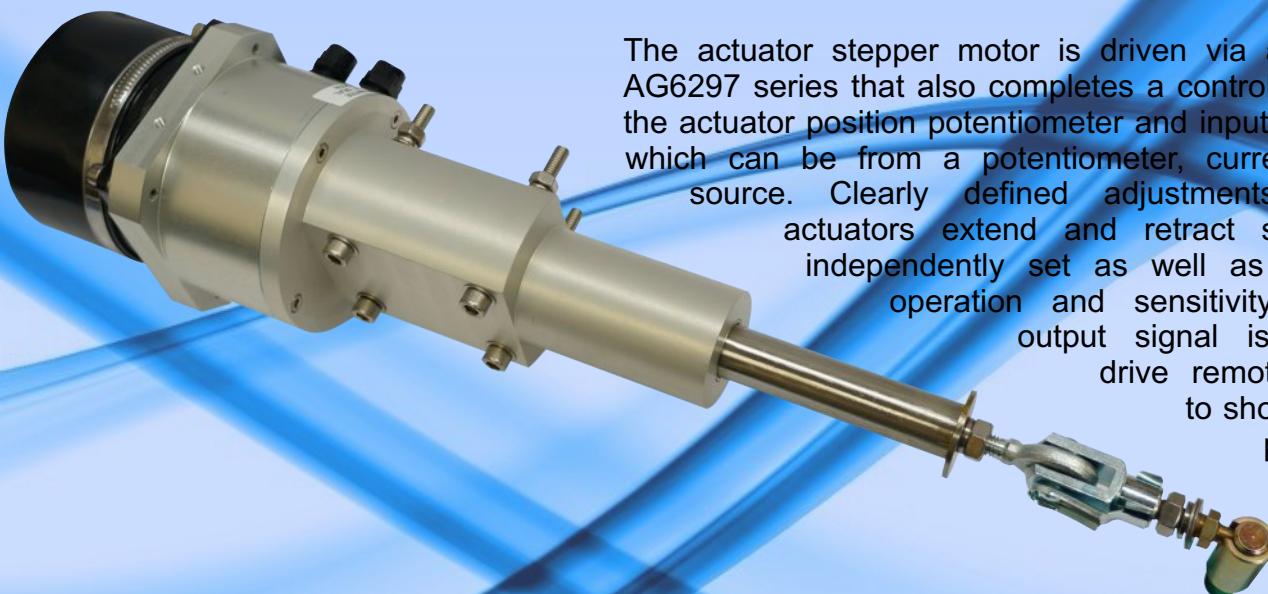
Linear actuators, type AG6248, are supplied as long stroke (LS) or short stroke (SS) units to optimise space and stroke requirements and provide the ideal control medium for C.P.Propellers, Voith thrusters, etc. The short stroke actuator is also offered with a mechanical cable link, so that for example on engines where space is limited for speed control connections, the actuator can be mounted off engine.

### SHORT STROKE (SS) ACTUATOR



A high torque stepper motor is connected directly to a steeply helixed lead screw, eliminating reduction gearing from the drive line and provides very precise speed and positional control. The actuator can be backdriven thus eliminating the need for collapsible mechanical connecting links. This feature also allows easy emergency manual operation.

### LONG STROKE (LS) ACTUATOR



The actuator stepper motor is driven via a control card AG6297 series that also completes a control loop between the actuator position potentiometer and input control signal, which can be from a potentiometer, current or voltage source. Clearly defined adjustments permit the actuators extend and retract strokes to be independently set as well as its speed of operation and sensitivity. A separate output signal is available to drive remote instruments to show the actuator position.

## System Overview

The Actuator and selected control card provides a simple and accurate means of controlling mechanical settings from one or more remote control positions.

The short stroke Actuator is provided with a mechanical cable to allow it to be remotely mounted.

Typical applications include:

- Engine speed control
- Propeller pitch control
- Valve control
- Control of vents, etc.

Characteristic	Units	Min	Nom	Max
Supply Voltage	V	21	24	28
Actuator and drive card current	A	0	N/A	1.7
Actuator generated push/pull force	lbs (kg)	0	N/A	40 (18)
Back driving force (with power off)	lbs (kg)	15 (6.7)	N/A	N/A
Actuator speed	mm/sec	3	N/A	20
	<b>Short stroke actuator</b>		<b>Long stroke actuator</b>	
Maximum stroke available	70mm (35mm either side of mid stroke position)		140mm (70mm either side of mid stroke position)	
Recommended maximum stroke	63 mm (31.5mm either side of mid stroke position)		127 mm (63.5mm either side of mid stroke position)	

### Control card AG6297/SD Series

The actuator stepper motor is driven via a control card AG6297/SD series that also completes a control loop between the actuator position potentiometer and input control signal, which can be from a potentiometer, current or voltage source. Clearly defined adjustments permit the actuators extend and retract strokes to be independently set as well as its speed of operation and sensitivity. A separate output signal is available to drive remote instruments to show the actuator position.

### Control card AG6544 Series

Interfacing to Electronic Governors Electro/electronic interfaces are catered for with card type AG6544 series, which is supplied in various build states to:

- Control input from a potentiometer, 2-10V or 4-20mA signal.
- Control outputs: 4-20mA, 0-2V or 0-10V and PWM signal.
- On card adjustments allow the end points for the signal range to be set as required.

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