

## StG L5000-50mm

### DATA SHEET

#### Description

The newly developed HEINZMANN Linear Screw Ball drive actuator with Integrated digital positioner can be used for a wide range of applications. The positioner consists of a DC permanent magnet motor with digital positioning drive housed in a hazardous area enclosure.



The motor drive is directly connected to a Linear screw ball actuator which has a linear travel of 50mm.

The internal motor drive electronics allows the linear position to be set via a 4—20mA current signal. There is a force signal output of 4—20mA where the mid range is zero force.

The unit has a thrust of 1000lbs and a travel speed of 600ms for 50mm linear movement at full force. The supply voltage is 20—34vdc and a current draw of 45A at full force during travel. The stall current is 15A at full force.

#### Specification

Standard set-point adjustment requires a signal of 4—20mA.

4mA = 0mm  
20mA = 50mm

Actuator position feedback signal is given with:

4mA = 0mm  
20mA = 50mm

Actuator Force signal: 4—20mA.

12mA is zero force.  
4 mA is max force in → 0 mm direction  
20mA is max force in → 50mm direction

#### Applications

Turbine Guide Vane systems, Steam Valve actuation and other fuel valve controls.

#### Features

Compact system setup and envelope size

High reliability

Large linear force in both directions

Hazardous area design

Mounting position can be tailor made

Maintenance free due to long duration lubricants

Force level output signal

Positional output signal

20 – 34V DC Supply

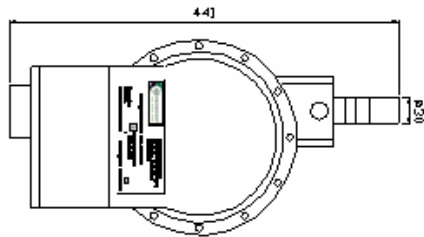
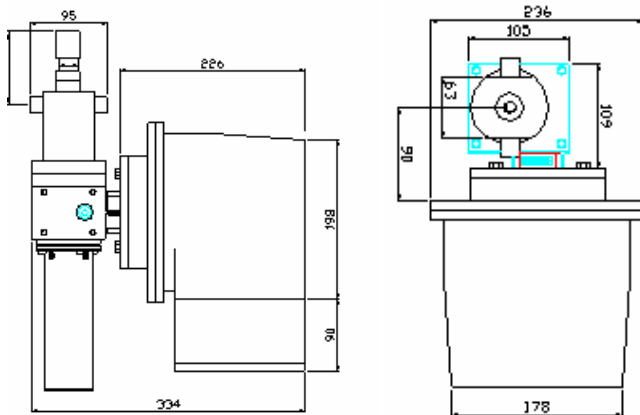
Trunnion mounting

Mounting in any attitude

Temperature range  
-20°C to + 70°C

## Dimensions

### StG L5000 - 50 mm



## Certificates

On request

## Technical data

### Electrical Connections

Voltage Supply	24v DC / 45A Operating range 20—34 VDC
Position Set point 4mA = 50mm	4 — 20 mA Input resistance 240 Ohm
Actual Position Value	4 — 20 mA Max load resistor 350 Ohm
Force Output	4 — 20 mA 12 mA zero load
Wiring	10mm <sup>2</sup> screw connectors

### Technical data

Ambient Temperature	- 20°C to + 70°C
Actuator output range	0 - 50mm
Maximum Force	1000 lbs
Response Time	600 ms ( 0 — 50mm )
Protection class	ATEX
Vibration	+/- 1mm at 1 ... 20 Hz Max 0.24m/s at 21- 63 Hz Max 9g at 64—2000 Hz
Shock	30g at 11ms half sine wave
Humidity	Permissible Humidity up to 95 % at 55 °C
Compliances	CE , ATEX Further compliances on request
Weight	StG L5000—50 mm ~ 30Kg
Finish	

Subject to alterations Heinzmann UK StG L5000-50mm



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