

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

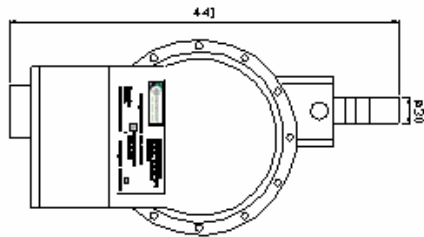
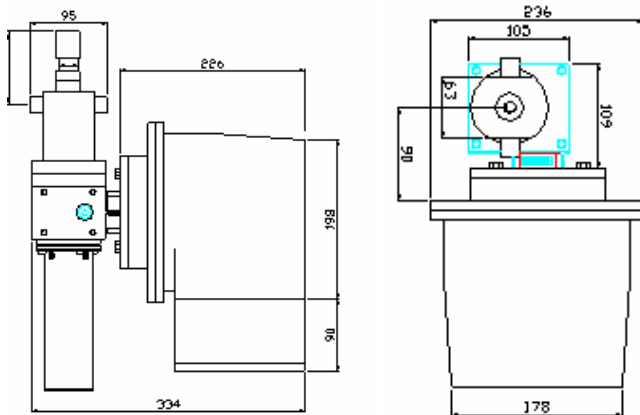
Trunnion mounting

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 ² 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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