

EVOLUTION LITE

DATA SHEET

Description

EVOLUTION Lite is a pure positioner using the same hardware but without the flow control algorithm. Designed to operate on 4 – 20 mA signal and return a similar feedback. It can be adapted for almost any rotary actuator application, from fuel valves, through to air and swashplate control.

EVOLUTION Lite is applicable to any application where the precise and power control is required. It produces up to 350 Nm on the output shaft.

This is a position servo assembly consisting of a digital electronic controller, rotary servo motor and rotary gearbox. High accuracy position and feedback.

Various mounting options are available customer specified by application. The unit is independently certified explosion proof for use in hazardous areas.

Only 24 VDC nominal battery power supplies are required, making application very convenient and safe compared to competitive high voltage systems.

The actuator can be delivered with alternative fixing arrangements to suit different applications. Please discuss your specific requirements with HEINZMANN UK.



Features

Force up to 350 Nm

Mounting options to suit most applications

Process feedback of position and force

Highly efficient gearhead optimises utilisation of electrical power

Applications

- Gas turbines

Certificates

- IECEx

Technical data

Output force	up to 350 Nm
Power supply voltage range	18 ... 32 VDC
Power supply current range	< 1 A (steady state) ... 10 A positioning
Ambient temperature range	-20 ... 85 °C
Environmental rating	IP65
Hazardous area certification	Ex db IIC T4 Gb (ATEX)
Position demand signal	4 ... 20 mA equivalent 0 ... 100 %
Position achieved feedback signal	4 ... 20 mA equivalent 0 ... 100 %
Thrust feedback signal	4 ... 20 mA equivalent -/+ 100 % force
Motor drive type	Four quadrant pulse width modulated
Power	180 W
Mounting	see attached drawing
Drive shaft	25 mm diameter key shaft
Gearbox	Epicyclic to lever and link
Mechanical deadband	0.5 mm maximum
Field electrical connections	Screw terminals accessible through actuator unit end cover with 20x 1.5 mm threaded gland entries
Application	Small frame gas turbines, steam turbines
Weight of assembly	28 kg
Gearbox casing and actuator end plate material	Aluminium
Actuator casing and gear material	Steel

Dimensions

