

## Series 20

### DATA SHEET

#### Description

##### **Work output 4.7 ft lbf (6.4 joules)**

The REGULATEURS EUROPA Series 20 is a proportional fuel control actuator designed to be part of a speed governing system for diesel/gas engines or small turbines.

The output shaft position is proportional to the drive current from an electronic governor/ECU. This actuator will operate with the HEINZMANN DC 6-200 or other ECUs providing a 0 to 200 mA drive; thus making it eminently suited to retrofits and upgrades.

The Series 20 actuator operates using filtered oil from the engine or from a separate sump. The operating pressure is generated by an integral oil pump which is driven via the drive shaft in the base.

The Series 20 actuator has been designed to complement the wide range of actuators and governors provided by Regulateurs Europa Ltd. and offers the same degree of reliability; backed up by an extensive network of RE and HEINZMANN agents.



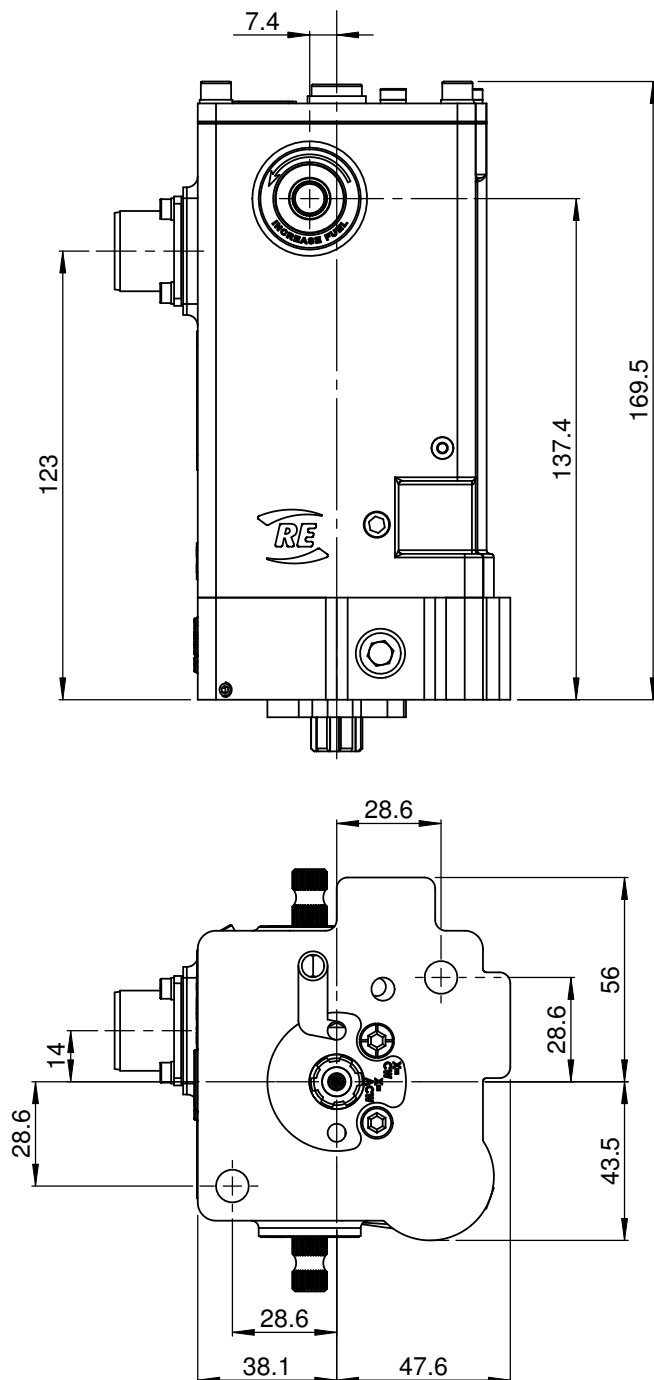
#### Features

- True proportional actuator. No position feedback required.
- Compact size envelope
- Manufactured in cast iron
- Provides a fuel control interface for the HEINZMANN DC 6-200 digital electronic governor or other ECUs
- Integral oil pump
- Low maintenance / high reliability
- Interchangeable with other proprietary actuators for simple retrofit and upgrades
- Vertical or horizontal (with configuration)

#### Application range

- ➔ Most suited to diesel/gas engines or turbines in industrial and power generating applications

## Dimensions



## Technical data

Actuator input signal	0-200 mA nominal operating range
Open loop positional accuracy	+/- 1.5 % FSD approx.
Work output (nominal)	4.72 ft lbf (6.4 joules)
Torque (increase fuel)	7.41 lb ft (10 Nm)
Torque (decrease fuel)	5.76 lb ft (7.78 Nm)
Output shaft angular movement	Nominal 42 degrees full travel. 28 degrees for no-load to full load.
Output shafts both sides	0.375 diameter 36 SAE serration
Drive shaft	0.562"-6 spline protruding 0.375" (9.5 mm) from base hub
Drive speed	1500 to 4000 rpm
Direction of rotation	Either direction via externally changeable rotation plugs
Oil supply pressure	1ft (300 mm) head to 100 psi (6.9 bar). Filtered at 25 microns (nominal).
Oil supply connections	2 x 0.250" NPTF around base and 1 x direct feed through base
Oil specification	SAE 20 – 40. For multi-grades consult RE for advice.
Oil operating range	Normal operating temperature range 60-90 °C
Actuator ambient temperature range	-20 to 100 °C normal operating range 60-90 °C
Electrical connection	4 Pin box mounting shell size 14S. Coil 32 Ω at 20 °C.
Mounting	2 x 5/16" (2 x M8) studs through base
Weight	11 lb (5 kg)

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