

TYPE 2231

Ballhead Hydraulic Servo Actuator

Work output 8,15,25,34 or 40 ft.lb f

The Regulateurs Europa 2231 actuator is a proportional actuator in which the output shaft position is proportional to the electric input signal.

The essential part of the 2231 actuator is the high response electric servomechanism, which overrides the ballhead pilot valve.

In the event of a power failure or controller fault, the governor system will fail to the ballhead mode.

Ballhead actuators have backup speed setting options of:

1. Lever hand operated
2. Lever morse cable operated
3. Synchronous motor 115/230V AC or stepper motor
4. Handwheel control
5. Stepper motor with programmable controller with the facility for the mechanical governor to track the electronic governor speed

A booster unit can be supplied for applications where minimal start air consumption is required.



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FEATURES

- True proportional actuator
- Self contained oil supply
- Based on the popular 1100 series governor
- One module with 5 different work outputs all within the same frame size
- Designed for use with the Viking range of digital electronic governors and engine management systems
- Ballhead back-up with various options for speed setting
- Various speed setting options available
- Booster option
- Electric start fuel limit option
- Standard adaptors available to replace other manufacturers governors
- Can be used with other manufacturers electronic governors

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SPECIFICATION

Actuator Input Signal

0-1 amp (normal operating range
250mA - 750mA)

Open loop positional accuracy
approximately $\pm 1.5\%$ FSD

Actuator Drive Speed

Normal operating speed range 300 - 1500
r/min (maximum 1200 r/min for 40 ft ibf)

Speed Range

For ballhead governing the maximum
governor speed should be between 900 -
1500 r/min (unless otherwise agreed)

Output Shaft Movement

50° max. with 30° or greater to be used
from full load to no load.

Oil Supply

Self contained 0.3 imp galls (1.4 litres).

Power to Drive Actuator

0.37 hp (0.28kW)(1500 r/min actuator drive
speed).

Output Shaft Dimensions

$\frac{5}{8}$ in nominal diameter, 36 SAE serration's.

Drive Shaft Dimensions

Standard $\frac{3}{4}$ in nominal diameter, 48 SAE
serrations' or 25mm nom, diameter keyed.
Other drive shafts are available to suit
application.

All drive shafts are fitted with mechanical
face seals to prevent oil contamination.

Rotation

Either clockwise or counter clockwise.

Weight

52lb (24kg)

NOTE:

1. Signal conversion units are
available if actuator is to be driven by
non Regulateurs Europa controllers.
2. Base plate adaptors are available to
convert actuator to other manufacturers
base designs.Σ

REGULATEURS EUROPA Ltd.

Port Lane, Colchester, Essex CO1 2NX
United Kingdom

Phone: +44 (0)1206 799 556

Fax: +44 (0)1206 792 685

Email: sales@regulateurseuropa.com

Website: www.regulateurseuropa.com

REGULATEURS EUROPA BV

Ekkelkamp 3, 9301 ZZ Roden
The Netherlands

Phone: +31 (0)5050 19888

Fax: +31 (0)5050 13618

Email: sales@regulateurs-europa.com

Website: www.regulateurseuropa.com



REGULATEURS EUROPA

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