

TYPE 2222 ACTUATOR

The Regulateurs Europa 2222 actuator is a proportional actuator in which the output shaft position is proportional to the electric input signal.

The actuator has many parts in common with our 1800 series hydraulic servo governor and like the 1800 hydraulic servo governor, it has a two stage high stiffness, backlash free hydraulic servo mechanism, enabling the best possible control to be obtained on engines having fuel control systems with large stiction forces.

A Booster unit can be supplied for application where minimal starting air consumption is required.



TYPE 2222 ACTUATOR Series

FEATURES

- 60 or 80 ft.lbf (81 or 108 Joules) work output within the same external dimensions, plus other common design features, give maximum application flexibility to suit all Prime Mover duties
- Drive speed, drive shaft, base mounting, common to both models
- Base adaptors and drive shafts available to suit mountings engineered for other manufacturers governors, these factors contribute to lower engine design and production costs.

TYPE 2222 ACTUATOR

SPECIFICATION

Actuator Drive Speed

Speed range at rated engine speed
- 900 to 1200 rev./min.
Output shaft movement 40° (maximum)
with 24° or greater to be used from
No Load to Full Load.

Stalled Work Capacity

60 ft.lbf (81 Joules)
80 ft.lbf (108 Joules)

Output Torque

90 lbf.ft (122Nm)
120 lbf.ft (163 Nm)

Servo Oil Pressure

200 lbf./in² (13.8 bar)
265 lbf./in² (18.3 bar)

Output is proportional to an input signal of
0 to 1 amp (nominal)
250 m A at position 2
(recommended working range)
750 m A at position 8
(recommended working range)

Open loop positional tolerance
approximately ± 1.5% FSD

Note: The load on the actuator should not
exceed 60% of the above stalled torque
and work capacity figures to cover
conditions when one or more fuel
pumps are seized.

Oil Supply

Self contained 4.25 litres

Output Shaft Dimensions

$\frac{7}{8}$ in. nominal diameter, 48 SAE Serrations,
both sides of actuator.

Drive Shaft Dimensions

$\frac{1}{8}$ in. nominal diameter, 48 SAE Serrations,
Standard.
Alternatively $\frac{5}{8}$ in. nominal diameter with
 $\frac{3}{16}$ in. x $\frac{3}{16}$ in. Key.

Rotation

Either clockwise or counter-clockwise.

Weight

114 lbs (52kg)

Oil Cooler

An oil cooler may be required when
operating in an ambient temperature in
excess of 40°C.

Note: Oil Cooler to be mounted on
governor. Cooling media can be fresh or
salt water or engine oil providing latter
does not exceed 50°C.

Flow rate approximately 5 litres/min. water,
10 litres/min.oil.

Power to drive actuator (at 1000 rev/min
Actuator Drive Speed)

60 ft.lbf. Work output -0.50 hp (0.37 kW)
Input Torque 2.62 lbf. Ft. (3.54 Nm.)
80 ft.lbf. Work Output -0.75 hp (0.56 kW)
Input Torque 3.5 lbf.ft. (4.74 Nm.)

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