

TG-13 Governors

for Ajax Engines

Applications

The two TG-13 Governor models for combustion engines are self-contained mechanical-hydraulic governors and are intended for use where isochronous (constant speed) operation is not required. They are designed to quickly and efficiently replace mechanical governors on Ajax integral enginecompressors used for gas gathering and production.

As efficient speed control devices, the new models significantly reduce speed excursions during load changes. Their ability to stabilize engine operation eliminates both overspeed trips and bogged engines, which result from



changing load conditions. In addition to improved engine operation, an operator often can realize reduced governor-service and governor-maintenance costs.

Description

Simplicity and low cost are distinct advantages of the TG-13 Governors. The governors operate with speed droop for stability of control and allow the engines to run unattended.

An internal oil pump, driven by the governor's drive shaft, transports oil from the selfcontained sump. Internal pressure is maintained by a relief valve accumulator system. The unit can use the same type of lube oil as the engine. A sight glass provides ease in checking oil level. The built-in relief valve accumulator helps maintain full oil pressure in the governor hydraulic system during transient conditions.

The two governor models are identical except for the base and the drive shaft length. Both models are easily installed, require no modifications to engine mounting pad, and generally use existing linkage. Once installed, they require minimal maintenance.

Two types of speed-setting adjustments are available: Screw speed setting is standard, and pneumatic speed setting is optional.

Weather-resistant construction and a self-contained oil sump reduce, if not eliminate, the possibility of contamination.

- Self-contained mechanical/ hydraulic governor
- Low cost
- Accurate speed control
- Weather resistant
- 16 N·m (12 lb-ft) output
- Pneumatic speed setting available

Specifications

Speed Setting

Screw	Adjustment on top of cover
Optional Pneumatic	Direct acting, 21 to 103 kPa (3 to 15 psi)

Governor Drive

Shaft 1/2-in Speed Range Can b (engir Drive Power Requirement 373 V Rotation Count

1/2-in. (12.7 mm) diameter. Number 5 Woodruff key (1/8 in. [3.2 mm])
Can be adjusted with a high speed of 1850 rpm and a low speed of 740 rpm (engine speed 500 to 200 rpm)
373 W (1/2 hp) maximum required to turn drive shaft at rated speed Counterclockwise as viewed from the top of the governor

Output



References

Manual 04042, TG-13 and TG-17 Governors Manual 25071, Oils for Hydraulic Controls



Outline Drawing of TG-13 Governor (Ajax SGL) (Do not use for construction)



Outline Drawing of TG-13 Governor (Ajax MULT)

(Do not use for construction)

