

UG Governor

UG-5.7, UG-8, and UG-10 Dial and Lever

Applications

The UG Governor is a mechanicalhydraulic governor for controlling diesel, gas, or dual fuel engines, or steam turbines.

UG-Dial governors are particularly suited for constant speed applications. Knob speed settings make synchronization easy for generator applications. Motor speed setting is available for remote synchronization. Adjustable droop makes load sharing between engines precise.

UG Lever governors are widely used for variable speed control. Remote speed setting can be either mechanical through the speed setting lever or pneumatic with a special speed setting device. Special attachments are available for other applications.

The UG pump is designed for applications which reverse engine rotation.

The governor provides extremely reliable speed control throughout the drive speed and temperature range.

This proven design has been industry standard for many years. World-wide acceptance provides easy service in most engine and governor shops.

Description

UG Governors (generally known as the "UG-8") are available in either a UG Dial or UG Lever configuration. Each model is available with any of three different work outputs: 7.1, 13.2, and 15.9 N·m (5.2, 9.7, and 11.7 lb-ft).

The UG-5.7 and UG-8 use 827 kPa (120 psi) operating pressure. The UG-5.7 unit has a reduced area servo piston which produces a quicker response to load changes and reduces overshoots at start up and on major load changes.

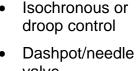
The UG-10 uses a 1034 kPa (150 psi) internal operating pressure to produce the higher work output.

Dashpot pressure compensation provides governor stability and allows the UG governor to operate in isochronous rather than droop. Droop is available to permit load sharing. A needle valve provides optimum adjustment that exactly matches the governor with a particular engine's dynamics.

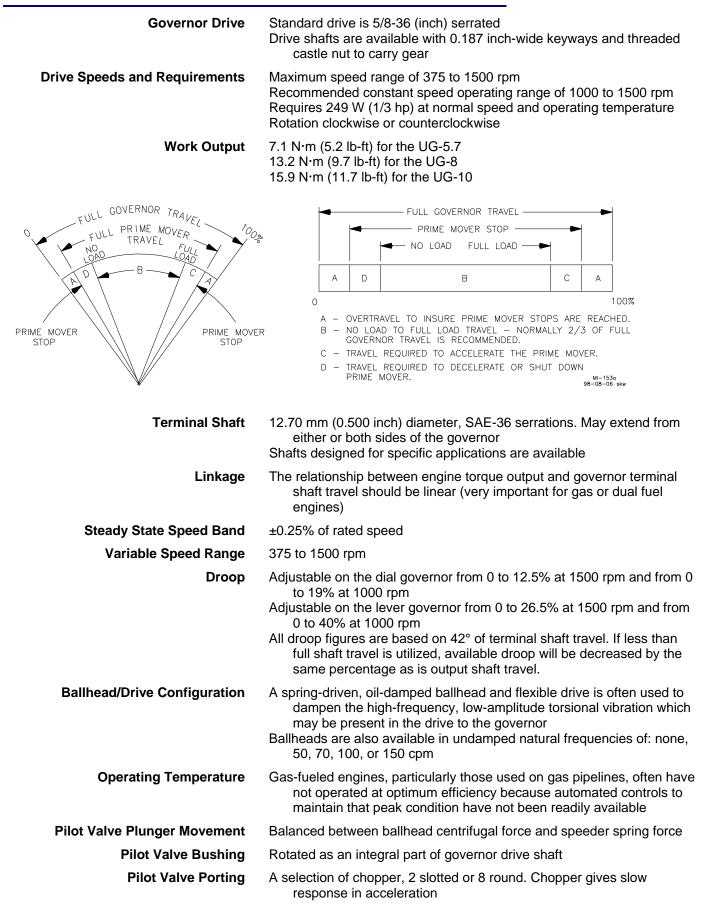
The UG governor has an internal oil pump driven from the governor's drive shaft. An arrangement of check valves permits the governor to operate in either direction. Oil pressure is maintained by a relief valve-accumulator system with a drain to an internal oil sump.



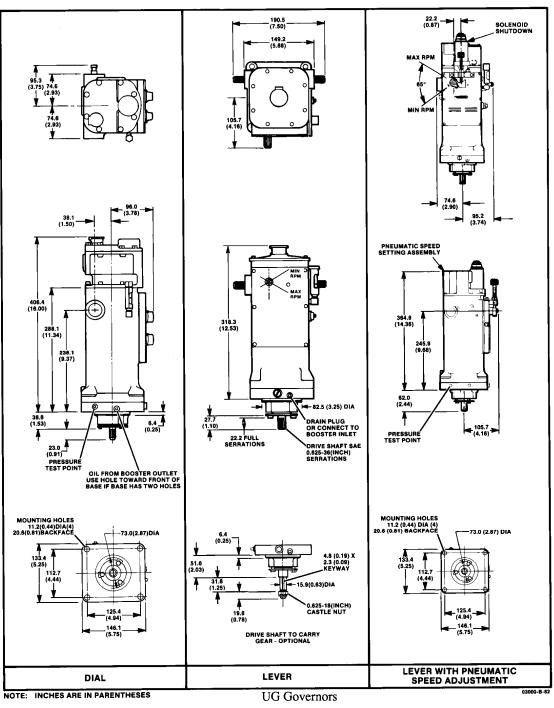


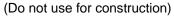


- valve compensation
- Lever, dial, motor, or pneumatic speed settings
- Damped ballhead
- Self contained oil sump



Oil	Self contained sump 1.9 L (2.0 US quart) capacity SAE 10 to 50 is recommended with a viscosity of 100 to 300 SUS. 15 to 70 CTS
Oil Pressure	758 to 827 kPa (110 to 120 psi) maintained by relief valve-accumulator system. 1034 kPa (150 psi) for the UG-10 governor
Weight (Dial Type)	22 kg (48 lb), 23 kg (50 lb) with synchronizing motor
Weight (Lever Type)	20 kg (45 lb)
Weight (Pneumatic Type)	23 kg (50 lb)
Case, Base, and Cover Construction	Cast iron
Mounting Configuration	Vertical to 45° (dial plate up)
Mounting Studs	7.9 mm (5/16 in.).diameter (4)
Technical Manuals	03040 (Dial) 03036 (Lever) 54042 (Installation)





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