

Integral Governor System

Stanadyne D series - G2

Description

The 2nd generation (G2) Woodward/Barber-Colman integral governor system is used to electronically govern diesel engines with a mechanical Stanadyne D series fuel pump.

Stanadyne pump compatibility (models)

DB	JDB	DC	DB2	DB4	DM2	DM4
----	-----	----	-----	-----	-----	-----

The original mechanically governed system is easily adapted where closer governor regulation, fuel efficiency, and increased engine performance is desired. No internal parts of the injection pump need to be added or replaced. The actuator is installed on top of the fuel pump, in place of the governor cover.

The early Barber-Colman controller models DYN1-1078x and DYN1-1079x are replaced with the more advanced and economical Woodward DPG series controllers.

The standard G2 governor system is a typical 3-component system: an actuator, a controller, and a speed sensor (mpu). There is availability of two styles of actuators and a Stanadyne dedicated DPG controller model, for isochronous Operation (see pictures on the right).



Upper section terminal

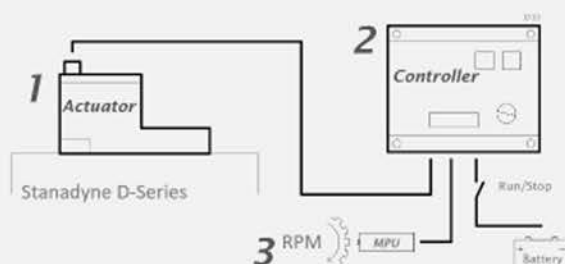
Lower section terminal



3-Component System (G2)

Features

- Improved fuel efficiency
- Improved engine performance
- All electric, 3-component system
- Precision RPM control: 0,25%
- Superior temperature stability
- Optional: 2-speed, load sharing, and remote speed



System Components

2 nd Generation Stanadyne system (70025-series)	12Vdc	24Vdc
Actuator, upper section terminal - Standard model	STAN-G2-12	STAN-G2-24
Actuator, lower section terminal	STAN-G2A-12	STAN-G2A-24
Controller Stanadyne-D (DPG single-speed plug and play)*	STANC-G2	STANC-G2
Speed Sensor (mpu)	Depending on engine type; ask for advice on compatible speed sensors.	

Mounting Accessories (mechanical)

Contents	Item #
Mechanical Installation kit I	Gasket seal, fuel return o-ring & mounting bolts
	STAN-G-MA1

Integral Governor System

Stanadyne D series – G2

Technical Specifications

Actuator	12Vdc	24Vdc
Operating temperature	-55 to 124 °C	-55 to 124 °C
Current, nominal	2.5 Amp	1.95 Amp
Current, peak	6.0 Amp	2.20 Amp
Stroke CCW	0,94 mm (linear)	0,94 mm (linear)
Duty operation	Cont.	Cont.
Controller	9 to 30 Vdc	
Operating temperature	-40 to 82 °C	
Dimension (WxHxD)	116x97x45 mm	
Sealing	Oil, water and dust resistant	
Weight	280 gram	
Vibration (SEA J1455)	1 to 500 Hz, 5G amplitude	
Speed signal input	10 to 12k Hz, >1Vrms	
Manual buttons	INC/DEC set speed	
Manual potentiometer	PID gain (270°)	