

# Pump Mounted Actuator

## 137 SERIES

*For BQ-Style Pumps*

GAC's 137 Series Pump Mounted Actuators are field proven proportional actuators mounted directly to BQ-Style fuel injection pumps, creating an integrated proportional servo fuel package. Benefiting from sealed components and no sliding parts, the design demonstrates outstanding reliability with no maintenance required. The availability of numerous options renders GAC's versatile design adaptable to a wide range of fuel engine applications.



## FEATURES

- Fast Response < 35 msec ( 10 - 90 %)
- Connects Directly to Injection Pump In Place Of Mechanical Governor
- Right or Left Hand Rack
- Adjustable Fuel Limits
- Manual Shut-Off Mechanism Available

## SELECTION CHART

	12 VOLT	24 VOLT	WITH SHUT-OFF MECHANISM	WITHOUT MATING CONNECTOR	RIGHT HAND RACK	LEFT HAND RACK
<b>ADD137-R-12</b>	●		●	●	●	
<b>ADD137-R-24</b>		●	●	●	●	
<b>ADD137-L-12</b>	●		●	●		●
<b>ADD137-L-24</b>		●	●	●		●

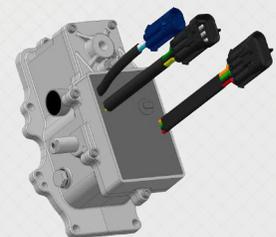
## INTEGRATED VERSIONS AVAILABLE



**DPG101**  
Idle and Fixed Speed



**DPG110**  
Multiple Fixed Speeds and Variable Speed Trim



**VDG200 Off Road**  
Foot Pedal with Variable Fuel Limiting

# ACCESSORIES



CH1215 Packard - 6' Actuator Mating Half  
EC1300 Packard - Electric Actuator / Mating Half Connector



# SPECIFICATIONS

## Performance

Force	4.0 in-lb (27.5N)
Operating Stroke	0.47 in (12mm)
Response Time (10-90% 0-12mm)	35 msec
Internal Sealing Pressure	0.7 bar (10 psi)

## Environmental

Operating Temperature	-40° to 95°C (-40° to +200°F)
Relative Humidity	up to 100%
Vibration	20G, 20 - 500 Hz
Shock	20 G @ 11msec

## Input / Output

Operating Voltage	12 VDC or 24 VDC
Coil Resistance	1.5 ± 0.2 Ohms (12 VDC Version) 6.0 ± 0.5 Ohms (24 VDC Version)
Nominal Operating Current	3.0 A (12 VDC Version) 2.0 A (24 VDC Version)
Maximum Current	7.2 A (12 VDC Version) 3.8 A (24 VDC Version)

## Physical

Dimension	Approx 4.25in x 4.63in x 6.77in (106.0mm x 117.6mm x 171.9mm)
Weight	4.75 lbs. (2.2 kg)

# OPTIONS

The electronic ESD Series speed control unit delivers a quick and precise response to transient load changes. When coupled with a proportional electric actuator and a magnetic speed sensor, the ESD will control a wide variety of engines operating in an isochronous, droop, or variable speed modes. Equipped with high quality components, the ruggedly designed ESD will endure the harshness of any industrial engine environment.



ESD5111

- Isochronous, Variable, & Droop Operation
- Speed Trim / Load Sharing Input
- Idle Speed Adjustment



ESD5500E

- Same features as ESD5111 also with:
- Starting Fuel Control
- Speed Ramping
- Soft Coupling / Lead Circuit

Governors America Corp.  
720 Silver Street Agawam, MA 01001  
Phone: 413.786.5600 Fax: 413.789.7736  
[www.governors-america.com](http://www.governors-america.com)  
[info@governors-america.com](mailto:info@governors-america.com)



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