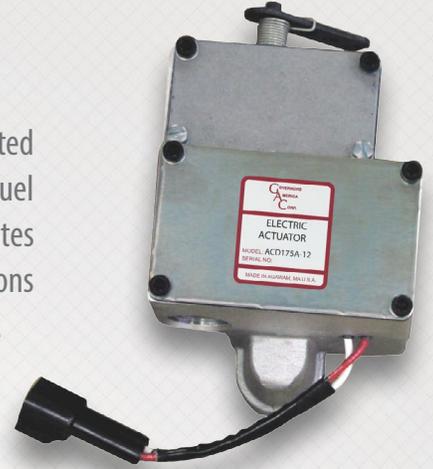


# Pump Mounted Actuator

## 175 SERIES

*For Bosch-Style 'P' Pumps*

GAC's 175 Series Pump Mounted Actuators are field proven proportional actuators mounted directly to fuel injection Bosch-style "P" pump, 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 and mounting kits renders GAC's versatile design adaptable to a wide range of fuel pumps.



## FEATURES

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

## SELECTION CHART

	12 VOLT	24 VOLT	WITH SHUT-OFF LEVER	WITH MATING CONNECTOR	RETURN SPRING	BYC MOUNTING KIT	FEEDBACK SENSOR
ACD175A-12	●		●			●	
ACD175A-24		●	●			●	
ADD175A-12	●		●				
ADD175A-24		●	●				
ADD175SA-24		●	●		●		
ADE175A-12	●		●	●			
ADE175A-24		●	●	●			
ADE175F-12	●						●
ADE175F-24		●					●

# ACCESSORIES



CH1215

## Mating Connector & Cable Harness

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

## Installation Kits included with Actuator

- KT283 Installation Kit - ASIMCO Pump Only
- KT289 Installation Kit - Bosch Governor Only



KT283

A VARIETY OF INSTALLATION KITS ARE AVAILABLE

# SPECIFICATIONS

## Performance

Force	6.2 lbf-ft [27.5 N m]
Operating Stroke	0.80 in [21 mm]
Response Time (10-90 % 2-19 mm)	35 ms
Internal Sealing Pressure	2 bar (29 psi)

## Environmental

Operating Temperature	-40 to 95 °C [-40 to +200 °F]
Relative Humidity	up to 100 %
Vibration	20 g, 20 - 500 Hz
Shock	20 g @ 11 ms

## Input / Output

Operating Voltage	12 V DC or 24V DC
Coil Resistance	2.1 Ω Nominal (12 V DC Version) 7.1 Ω Nominal (24 V DC Version)
Nominal Operating Current	4.0 A (12 V DC Version) 2.0 A (24 V DC Version)
Maximum Current	5.8 A (12 V DC Version) 3.1 A (24 V DC Version)

## Physical

Dimension	Approx 4.25 x 4.63 x 6.77 in [106.0 x 117.6 x 171.9 mm]
Weight	4.75 lbf [2.2 kgf]

# OPTIONS

## ESD5500E Series Analog Speed Controls



- Speed Ramping
- Starting Fuel Control
- Enhanced Droop Control
- Fully Adjustable PID & Idle Adjustment

The electronic ESD5500E 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 or droop mode. Armed with high quality components, the ruggedly designed ESD will endure the harshness of any industrial engine environment.

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