

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



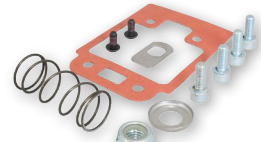
CH1215

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 24 V 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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