



Pump Mounted Actuator

176 SERIES

For Bosch-Style 'A' Pumps

GAC's 176 Series Pump Mounted Actuators are field proven proportional actuators mounted directly to fuel injection Bosch-style "A" 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 and mounting kits renders GAC's versatile design adaptable to a wide range of fuel pumps.



FEATURES

- Adjustable Fuel Limits
- Manual Shut-Off Mechanism
- Left-Hand Rack (Right-Hand Rack Available Soon)*
- In Place of Mechanical Governor
- Feedback Position Sensor Available
- Fast Response < 35 msec (10 - 90%)
- Connects Directly to the Injection Pump

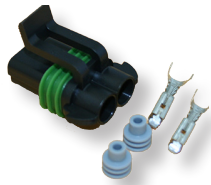
* Contact GAC For Availability

SELECTION CHART

	12 VOLT	24 VOLT	WITH SHUT-OFF LEVER	WITH COLD START	WITH MATING CONNECTOR	WITHOUT MATING CONNECTOR
ADD176A-12	●		●			●
ADD176A-24		●	●			●
ADE176A-12	●		●		●	
ADE176A-24		●	●		●	
ADE176AA-12	●			●	●	
ADE176AA-24		●		●	●	

* Contact GAC For Part Numbers Regarding Right-Hand Rack Versions

ACCESSORIES



EC1300

- EC107 Packard - Cold-Start Mating Connector
- EC1300 Packard - Electronic Actuator Mating Connector
- EC1515 Packard - Feedback Mating Connector

Mating Connector & Cable Harness

- CH1215 Packard - 6' Actuator Mating Cable Harness
- CH1515 Packard - 6' Feedback Mating Cable Harness

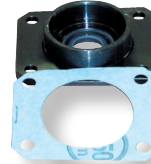


CH1215

Adaptor Kits

- KT176A Camshaft Bearing Retainer Kit

KT176A



SPECIFICATIONS

Performance

Force	6.2 ft-lb (27.5N)
Operating Stroke	0.80 in (21mm)
Response Time (10-90% 2-19mm)	35 msec
Internal Sealing Pressure	2 bar (29 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
All Surface Finishes	Fungus Proof and Corrosion Resistant

Input / Output

Operating Voltage	12 VDC or 24 VDC
Coil Resistance	1.7 ± 0.2 Ohms (12 VDC)
	7.2 ± 0.5 Ohms (24 VDC)
Nominal Operating Current	4.0 A (12 VDC)
	2.0 A (24 VDC)
Maximum Current	5.8 A (12 VDC)
	3.1 A (24 VDC)
Cold Start Minimum Operating Voltage (Dedicated Coil)	6.0 V (12 VDC)
	12.0 V (24 VDC)
Nominal Operating Current	1.3 ± 0.2A (12 VDC)
	4.0 ± 0.2A (24 VDC)

Physical

Dimension	Approx 4.25in x 4.63in x 6.77in (106.0mm x 117.6mm x 171.9mm)
Weight	4.94 lbs. (1.84 kg)

OPTIONS

ESD5100 Series Analog Speed Controls



- Adjustable PID
- Accessory Input
- Speed Ramping
- Auxiliary 10V Power System

The electronic ESD5100 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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