

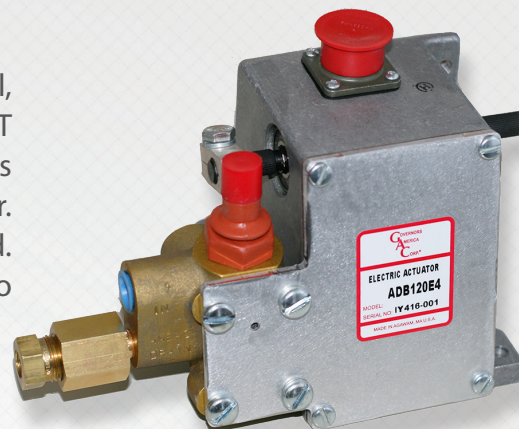


Electric Actuator With Fuel Metering Valve

## ADB120E4

CUMMINS ENGINES WITH PT FUEL SYSTEMS

The ADB120E4 is a rotary output, linear torque, proportional, electric fuel metering servo for use on Cummins engines with PT fuel systems. Energized by signals from a speed control unit, this actuator is capable of delivering fuel at rates up to 1700 lbs/hr. Since the design is totally sealed, outstanding reliability is achieved. A single compression spring is used to improve reliability. No maintenance is required.



## FEATURES

- Multi Voltage
- Easy Installation
- Maintenance Free
- Proven Reliability
- Compact Size
- Precise Engine Speed Control
- Enhances Engine Performance
- Rapid Response to Transient Conditions
- Available With or Without Stop Lever

## ACCESSORIES



CH1203

### Cable Harness

CH1203 12' Harness - Straight Connector (MIL)

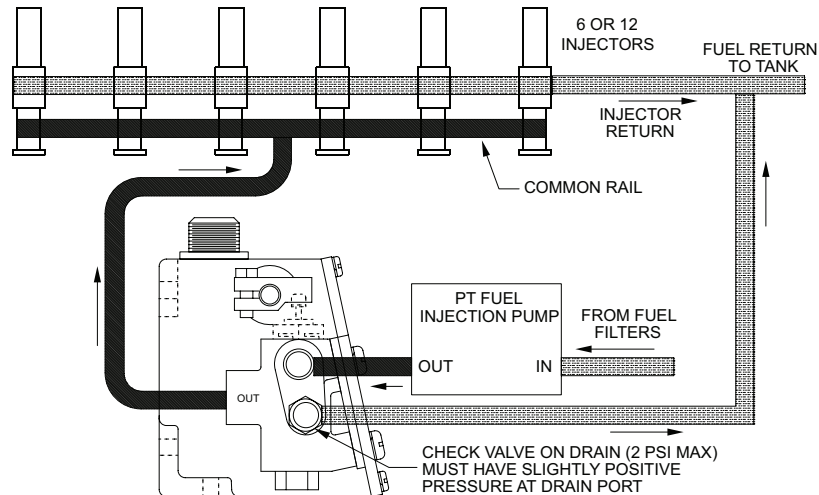
### Lever

LE1400 3.3" Lever - 1/4" Holes / Serrated Shaft



LE1400

# CONNECTION



# SPECIFICATIONS

## Performance

Torque	1.1 lb-ft (1.49 Nm)
Operating Stroke	25° ±1°
Response Time (10-90% 2-19mm)	30 msec

## Power Input

Operating Voltage	12, 24, or 32VDC
Normal Operating Current	2 Amps at 12VDC 1 Amp at 24/32VDC
Maximum Current/Continuously Rated	6 Amps at 12VDC 3 Amps at 24/32VDC

## Environmental

Temperature Range	-40° to +200 °F (-40° to +95 °C)
Relative Humidity	up to 100%
All Surface Finishes	Fungus Proof and Corrosion Resistant
Vibration	Up to 20 G, 50 - 500 Hz

## Physical

Dimensions	Approx. 4.00 in x 6.98 in x 4.86 in (101.6 mm x 177.3 mm x 123.3 mm)
Weight	4.75 lbs. (2.2 kg)
Mounting	Vertical /Electrical Connector on Top

# 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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