



## Integrated Pump Mounted Electric Actuator

# 275 SERIES

*For Bosch-Style 'P' 3000-7000 Fuel Injected Pumps*

The 275 Series Electric Actuator is a second generation design more powerful than its predecessor. Coupling the 275 Series with a fuel pump results in a high performance fuel control system without external linkages or brackets. Two isolated chambers eliminates the possibility of any magnetic particles collecting and jamming the actuator. As a result, the 275 Series typically outlasts the life of a diesel engine and is maintenance-free. Camshaft bearing retainer kits, position feedback transducer and heavy duty bearing retention options are available.



## FEATURES

- High Performance Fuel Control
- Maintenance-Free Operation
- Stop Lever for Manual Control
- Available With Feedback Sensor
- 24 Volt
- Control Up to 12 Cylinder Pumps
- Adjustable Maximum Fuel Limit
- Mounts Directly on Bosch 'P' and 'RP 21' Fuel Injection Pumps in Place of a Mechanical Governor

## SELECTION CHART

	MIL CONNECTOR	PACKARD CONNECTOR	WITH MATING CONNECTOR	FEEDBACK SENSOR	LESSER RETURN SPRING	GREATER RETURN SPRING	HEAVY DUTY BEARING RETENTION
ACB275H	•				•		
ACE275H		•			•		
ACE275HD		•					•
ACE275J		•				•	
ACE275K		•		•			•



# ACCESSORIES

## Cable Harnesses



CH1203

12' Harness - Straight Connector  
ACB/ADB Actuators (MIL)



CH1215

Packard - 6' Actuator Mating Half /  
ACE275 & ACE275K Actuators



CH1515

AB Position Sensor Mating Half /  
6' Shielded Cable / Feedback Sensor /  
ACE275 Actuators

## Lever



LES1400-4

3.3" Lever - 1/4" Holes /  
Serrated Shaft ACB/ADB Actuators

## Mating Connectors



EC1000

ACB Actuators / Straight /  
Military Style Connector



EC1010

ACB Actuators 90° /  
Military Style Connector



KT275

KT275

## Kits

Adaptor Kit - Bosch "P" 3000 Pump

KT276

Adaptor Kit - Bosch "P" 7000 Pump

KT278

Adaptor Kit - Bosch RP21 Pump

KT278-1

Adaptor Kit - Bosch RP21 Pump for  
Marine Applications

# SPECIFICATIONS

## Environmental

Operating Temperature Range	-40 ° to +185 °F (-40° to +85 °C)
Relative Humidity	up to 100%
All Surface Finishes	Fungus Proof and Corrosion Resistant

## Power Input

Operating Voltage	24VDC
Normal Operating Current	1.5A at 24 VDC
Maximum Current-Continuously Rated	4.5A at 24 VDC

## Performance

Force	13.2 ft-lb max (58.7 N)
Operating Stroke	0.79 in max (20mm)

## Physical

Dimensions	* APPROX 4.33 in x 6.47 in x 8.29 in
Weight	11 lb (4.9 kg)
Mounting	Directly on 'RP 21', 'P' 3000 and 'P' 7000 Bosch fuel injection pumps

\* See PIB2030 B for Diagram with Dimensions

# OPTIONS

## ESD5330 Analog Speed Control



- Adjustable PID
- Speed Ramping
- Starting Fuel Control
- Idle Speed Adjustment
- High Power Drive Circuit

The all electronic ESD5300 Series speed control 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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