

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



LES1400-4

Lever

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

Kits

KT275

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

ESD5500E Analog Speed Control



- Adjustable Droop
- Speed Ramping
- Starting Fuel Control
- Idle Speed Adjustment
- Soft Coupling & Lead Circuit

The all electronic ESD5500E 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 except the ACB2001. Armed with high quality components, the ruggedly designed ESD will endure the harshness of any industrial engine environment.



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