



Integrated Pump Mounted Electric Actuator

295 SERIES

For Bosch-Style 'P' 9000 and 10000 Fuel Injection Pumps

The 295 Series Electric Actuator is a second generation design more powerful than its predecessor. Coupling the 295 Series with a fuel pump results in a high performance fuel control system without external linkages or brackets.

Two isolated chambers eliminate the possibility of any magnetic particles collecting and jamming the actuator. As a result, the 295 Series typically outlasts the life of a diesel engine and is maintenance-free. Camshaft bearing retainer kits and position feedback sensors are available.



FEATURES

- Mounts Directly on Bosch 'P' 9000 and 10000 Series Fuel Injection Pumps in Place of a Mechanical Governor
- Control Up to 16 Cylinder Pumps
- Optimum Performance for In-line Pumps
- Includes Manual Rack Return Mechanism
- Adjustable Maximum Fuel Limit

SELECTION CHART

	ACTUATOR ASSY	PACKARD CONNECTOR	AB POSITION FEEDBACK SENSOR
ACE295-24	*	*	
ACE295F-24	*	*	*

ACCESSORIES

Cable Harnesses



Packard - 6' Actuator Mating Half



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



KT295 and KT296



Kits

Installation Kit and Mounting
Hardware & Gasket Kit /
Included With Actuator

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

Performance

Force	13.2 lbf (58.7 N)
Operating Stroke	0.79 in +/- .04 in (20 mm +/- 1 mm)

Power Input

Operating Voltage	24 V DC
Normal Operating Current	2.4 A at 24 V DC
Maximum Current-Continuously Rated	4.5 A at 24 V DC

Physical

Dimensions	* APPROX 4.33 in x 6.47 in x 8.29 in
Weight	11 lb. (4.9 kg)
Mounting	Directly on 'P' 9000 and 'P' 10000

*See PIB4160 For Diagram With Dimensions

OPTIONS

ESD5330 Analog Speed Control



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

The 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, variable, 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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