



## Barber-Colman Integrated Actuator For Stanadyne "D" Series Injection Pump Model DYNA 70025

— Factory Approved by Stanadyne —

### General

The Barber-Colman Integral Governor System for Stanadyne "D" Series\* injection pumps has been designed in close cooperation with Stanadyne. Through this cooperation a uniquely simple integrated governor is now available.

Barber-Colman has taken a proven rotary actuator and built it into a new cover design for Stanadyne "D" Series injection pumps. This new integrated approach eliminates all brackets and external linkage. No internal parts to the injection pump need to be added or replaced.

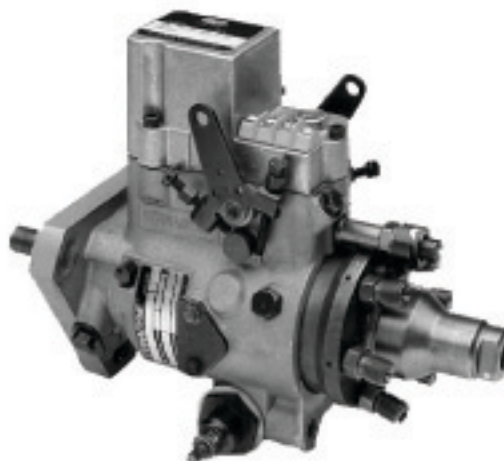
The actuator design utilizes the principle of variable reluctance. This simple design of a proportional electric solenoid has a rotating armature whose magnetic force is proportional to input coil current.

The integrated actuator and injection pump housing is very easy to install. Simply remove the existing cover and install the new cover. Along with the standard model (DYNC-70025-000-0-12/24), a completely sealed model (DYNC-70025-001-0-12/24) is also available. Pollutants from contaminated fuel can cause the actuator to bind and hinder the engine governing. For those contaminated fuel applications, the completely sealed model prevents pollutants from entering the actuator and causing erratic governing.

### Standard Features

- 1 All Electric
- 1 Fast Response
- 1 Compact
- 1 Precise Repeatability
- 1 No External Linkage
- 1 No Mounting Bracket
- 1 Spring Return to Shut Off

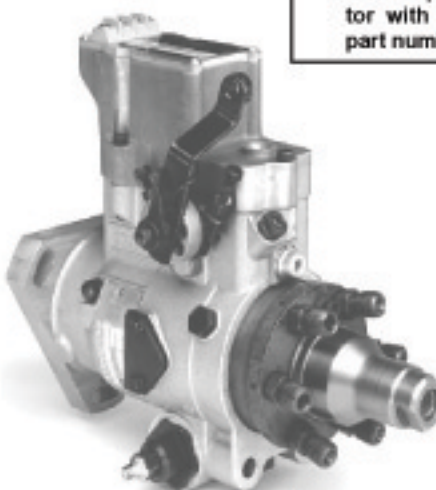
\*Manufactured by Stanadyne Automotive Corp.



**Standard Models**  
**DC70025-002-012**  
**DC70025-002-024**



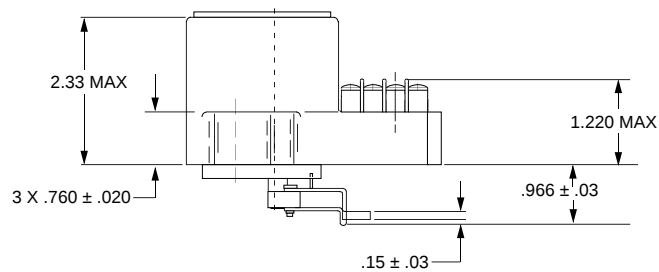
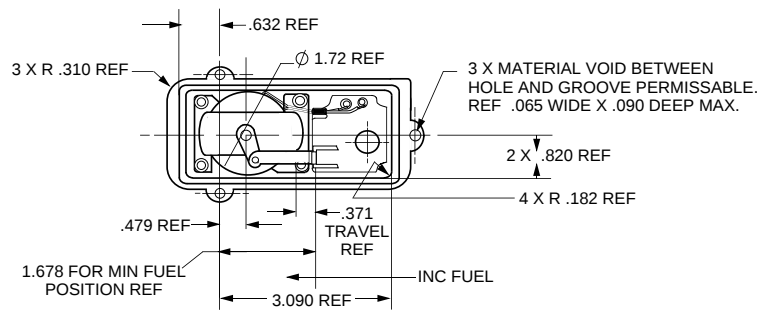
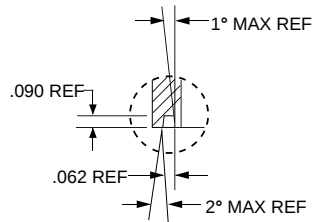
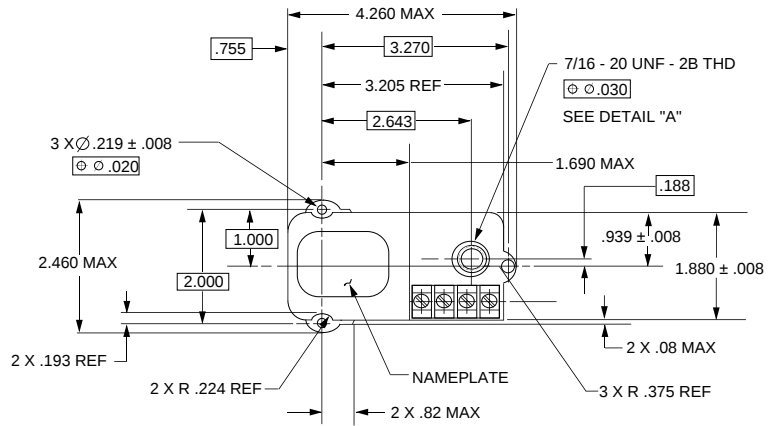
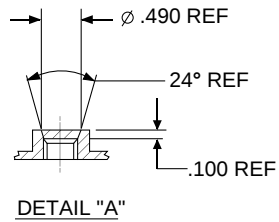
Actuator is available with flying lead connector, which mates with Packard weatherpak 2 way connector with female sleeves, part number 1201 5792.



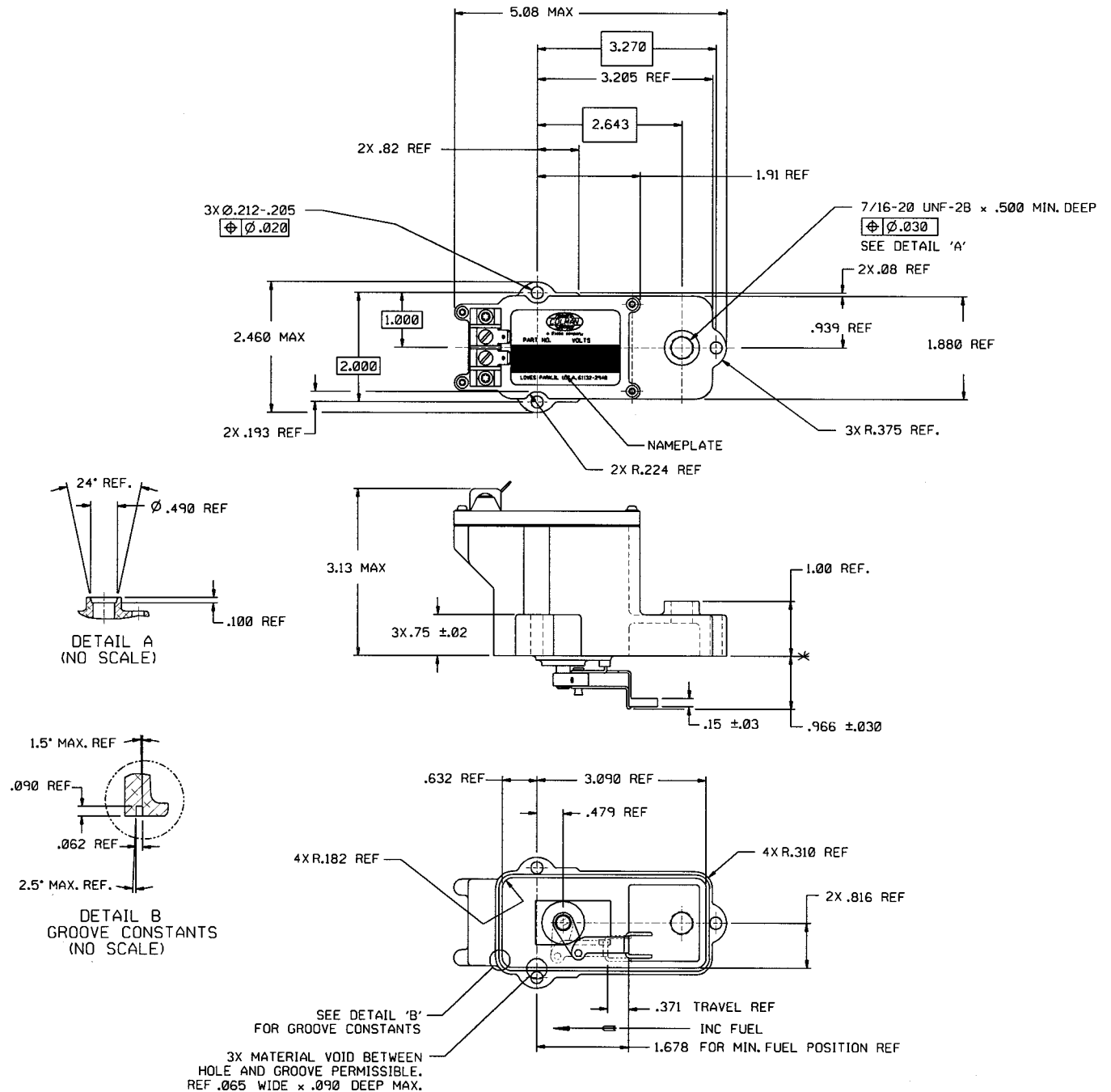
**Sealed Model**  
**DYNC-70025-001-0-12/24**



# Installation Dimensions — DYNC-70025-000-0-12/24 & DYNC-70025-200-0-12/24



# Installation Dimensions — DYNC-70025-001-0-12/24



## Specifications

| Operating Characteristics |                                                                    |             |
|---------------------------|--------------------------------------------------------------------|-------------|
| Nominal Voltage           | 12 Volts DC                                                        | 24 Volts DC |
| Current Amps Nominal      | 2.5 Amps                                                           | 1.94 Amps   |
| Current Max Stall         | 8 Amps                                                             | 2.2 Amps    |
| Stroke                    | As Shown                                                           |             |
| Duty Cycle                | Continuous                                                         |             |
| Temperature Range         | -55°C to 124°C<br>-65°F to 250°F                                   |             |
| Direction Of Travel       | Increasing current causes travel in the direction shown (INC FUEL) |             |
| Finished Weight           | 1 lb. 12 oz. max                                                   |             |
| Finished Mass             | .79 kg max                                                         |             |

### Typical Applications

- 1 Generator Sets
- 1 Forklift Trucks
- 1 Ground Power Carts
- 1 Agriculture Vehicles
- 1 Off-Road Vehicles
- 1 Pump Sets
- 1 Pleasure Boats
- 1 Wood Chippers

### Available Controllers

DYN1-10784-000-0-12/24  
DYN1-10786-000-0-12/24  
DYN1-10794-000-0-12/24

DYN1-10784-001-0-12/24  
DYN1-10786-001-0-12/24  
DYN1-10794-002-0-12/24



### Input Signal Frequency

2500 - 5000 Hz  
5000 - 9500 Hz  
2500 - 5000 Hz

2500 - 5000 Hz  
5000 - 9500 Hz  
2500 - 5000 Hz

### Stanadyne Pump Models

- 1 DB
- 1 JDB
- 1 DC
- 1 DB2
- 1 DB4
- 1 DM2
- 1 DM4



# WOODWARD

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#### NOTE

Barber-Colman believes that all information provided herein is correct and reliable and reserves the right to update at any time. Barber-Colman does not assume any responsibility for its use unless otherwise expressly undertaken.

#### CAUTION

As a safety measure, the engine should be equipped with an independent overspeed shutdown device in the event of failure which may render the governor inoperative.