

## 8650 Series Electric Inlet Guide Vane Actuators



*8650E250 Series EIGV Actuator*



*8650E201 Series EIGV Actuator*

The Young & Franklin 8650 Series Electric Inlet Guide Vane Actuators are built to withstand the rigors of large frame turbine operating environments. These electric actuators are an upgrade from hydraulic air inlet controls, providing more reliability and better overall turbine performance. The EIGV Actuators are available with forces up to 30,000 lbf. and various stroke lengths.

The 8650 Series features a sealed gear-train lubrication system, is self-contained and requires minimal maintenance. The entire assembly has been tested to over 20 years at temperature and load.

### 8650 Series Electric Inlet Guide Vane Actuator Specifications:

Model:	8650E201 Series	8650E250 Series
Peak Force	Up to 30,000 lbf (133,400 N)	11,250 lbf (50,000 N)
Total Stroke	4 in (101.6 mm)	2 in (50.8 mm)
Slew Rate	Up to 0.60 in/s (15 mm/s)	Up to 1.18 in/s (30 mm/s)
Fail-Safe Mode	N/A	Spring (extend)
Mounting Type	Bolted or Welded	Bolted
Operating Temperature Range	-40° to +266°F (-40° to +130°C)	
Command	4-20 mA Position, -8 to +8 mA Triple Redundant Velocity	
Ingress Protection	Available in IP54 and IP65	
Mean Time Between Service	96,000 Hours	
Maintenance Interval	8 years (Gear-train oil change only)	
LVDT Wiring	6.56 ft (2 m) Flying Lead or MIL Connector	
Motor Wiring	32.8 ft (10 m) Jacketed Cable	
Service Life	20 Years	
Environmental	MIL-STD-810 - Shock and Vibration	
Certifications	Class 1 Div 2, Group B, C & D, T3 Ex db ib IIB+H2 T3 Gb	