

8655 Series Electric Stop/Ratio Valves



The Young & Franklin 8655 Series Electric Stop/Ratio Valves are designed to regulate fuel pressure and provide rapid fuel shutoff capability. Fail Safe to closed position is accomplished by the use of two torsion springs. The actuator is suitable for fuel modules in Class 1 Div 2 Hazardous Locations.

8655 Series Electric Stop/Ratio Valve Specifications

Line Size:	4" Valve	6" Valve	8" Valve
Flow Profile	Equal Percentage		
Rated Cg (Class IV, / Class VI)	10,400 / 11,200	18,400 / 19,700	27,900 / 30,600
Estimated Dry Weight	260 lbs. (118 kg)	330 lbs. (150 kg)	450 lbs. (204.5 kg)
Slew Time	≤250 ms		
Trip Time	≤200 ms		
Maximum Operating Pressure	Metal Seat: 680 psig (46.88 barg)		Composite Seat: 730 psig (50.33 barg)
Valve Flange Size	ASME B16.5, Class 300 Flange		
Max Gas Fuel Temperature	Metal Seat: +450°F (+232°C)		Composite Seat: +300°F (+148.9°C)
Ambient Temperature Range	-4° to +212°F (-20° to +100°C)		
Mean Time Between Service- Valve	32,000 Hours		
Mean Time Between Service- Actuator	128,000 Hours		
Valve Materials	Carbon Steel, NACE Compliant		
Bandwidth/Frequency Response	Customizable up to 20 Hz with 3dB attenuation		
Independent Feedback	2 LVDTs (optional)		
Motor Coil	Class F insulation (311°F, 155°C)		
LVDT Wiring	6.56 ft (2 m) Flying Lead or MIL Connector		
Motor Wiring	32.8 ft (10 m) Jacketed Cable		
Visual Position Indicator	Yes		
Ingress Protection	IP65		
Stem Leakage	Zero leakage, as shipped		
Failure Mode	Spring to drive valve to safe position (Fail Close)		
Leakage Classification	ANSI FCI 70-2 Class IV (Metal Seat), Class VI (Composite Seat)		
Command	4-20 mA Position, -8 to +8 mA Triple Redundant Velocity		
Certifications	Class 1 Div 2, Group B, C & D, T3		

