

The 7600 Series EGCV/ESRV Skid:

- The 7600 Skid is a replacement for the 7B-EA & 9E Hydraulic Combined Gas Control-Stop/Speed Ratio Valve Assembly
- Made up of the 8655 Series Electric Stop/Ratio Valve and the 3010 Series sonic flow Gas Control Valve
- Valves can be independently removed for service
- At 1033 lbs., the 7600 is less than half the weight of its hydraulic predecessor
- Compatible with Triple Redundant -8 to +8 mA Servo Commands or 4-20 mA Position Command
- Standard LVDTs and/or 4-20 mA output provide position feedback
- Both valves interface to the 1100D300 DMC, providing in-situ performance monitoring
- Composite Seat of the 7600 ESRV is Class VI; reduced leakage and failed starts
- Rotary ESRV wiping action eliminates buildup seen on 7500 SRV plug and seat
- Electric actuators eliminate hydraulic leaks and failures
- Maximum 200ms trip time; 5X faster than the 7500
- The actuator is suitable for fuel modules in Class 1 Div 2 Hazardous Locations

	Gas Control Valve	Stop/Ratio Valve
Flow Profile	Linear	Equal Percentage
Rated Cg	Up to 4,300 Cg	11,200 Cg
Slew Time	≤700 ms	≤500 ms
Trip Time	≤350 ms	≤200 ms
Maximum Operating Pressure	620 psig (42.75 barg)	730 psig (50.33 barg)
Valve Flange Size	ASME B16.5, Class 300 Flange	ASME B16.5, Class 300 RF Flange
Fluid Temperature Range	0°F to 450°F (-18°C to 232°C)	-4° to +212°F (-20° to +100°C)
Seat Classification	Class IV per ANSI FCI 70-2	Class VI per ANSI FCI 70-2
Mean Time Between Service- Valve	96,000 Hours	32,000 Hours
Mean Time Between Service- Actuator	128,000 Hours	
Ambient Temperature Range	-4°F to 212°F (-20°C to 100°C)	
Valve Materials	Carbon Steel (NACE MR0175 Compliant)	
Bandwidth/Frequency Response	Customizable up to 23 Hz with 3dB attentuation	
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 type to drive valve to safe position (Fail Close)	
Command	4-20 mA Position, -8 to +8 mA Triple Redundant Velocity	
Estimated Dry Weight	1,033 lbs. (468.56 kg)	
Certifications	Standard Assembly: Class 1 Div 2, Gro With Optional LVDTs: Class 1 Div 2, Gro	up B, C & D, T3 Ex db IIB+H2 T3 Gb up B, C & D, T3 Ex db ib IIB+H2 T3 Gb





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