

Overview

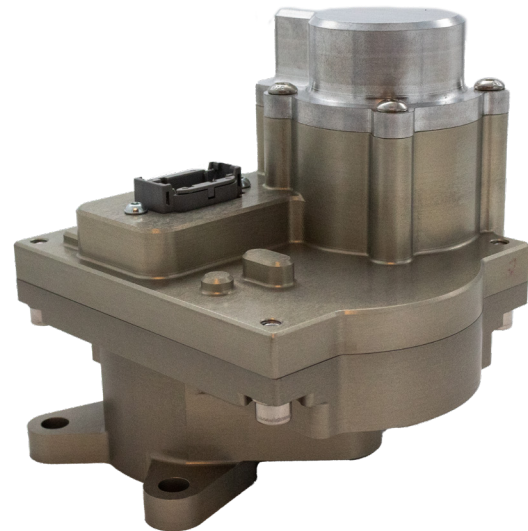
The EHC Actuator has a wide range of actuators all built for harsh applications, where exposed to wider temperature ranges or subjected to high levels of shock & vibration, while continuing to operate at a 100% duty.

Typical Applications

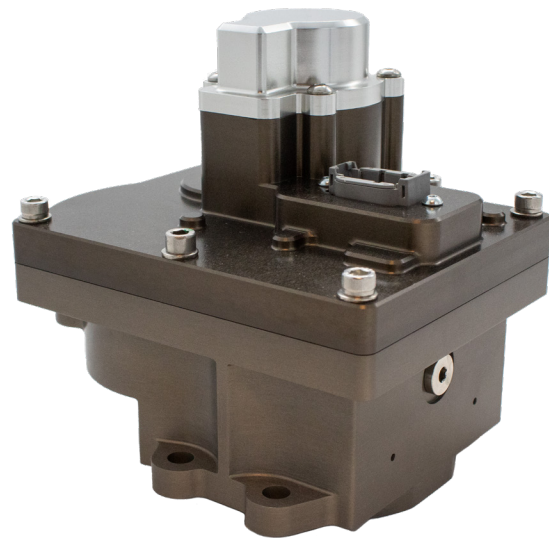
- Naval Vessels
- Locomotives
- Hydrogen Fuel Cells
- Oil & Gas Equipment
- Process Control
- On-Engine

Features and Benefits

- High vibration and shock resistance
- -40°C to +125°C standard operating temperature range.
- CE/UKCA certified
- Manual override available
- Configurable analog IO options
- SAE J1939 CAN capable
- High speed, configurable quarter turn time, minimum 0.5s
- 24VDC operation
- 10 Nm, 25 Nm
- IP67, IP69K



Model EHC10

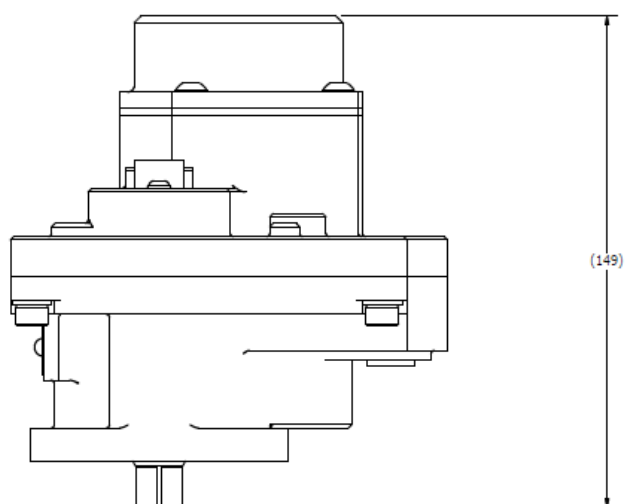
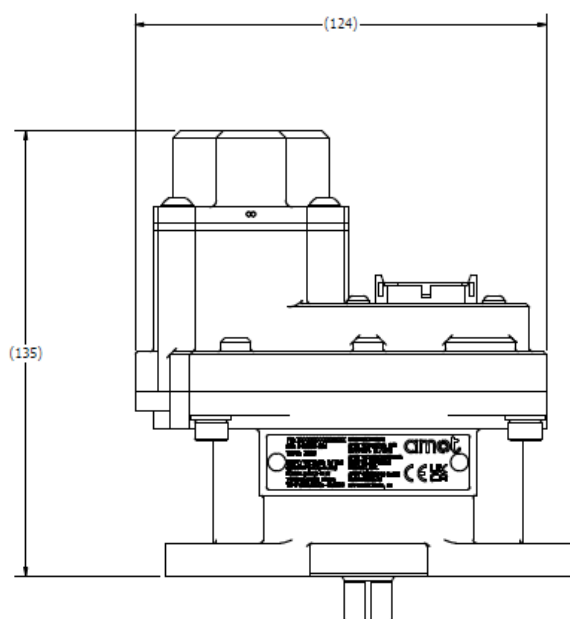
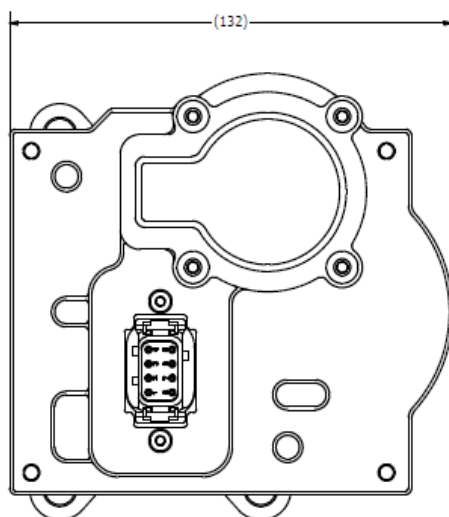


Model EHC25

Dimensions

EHC Series

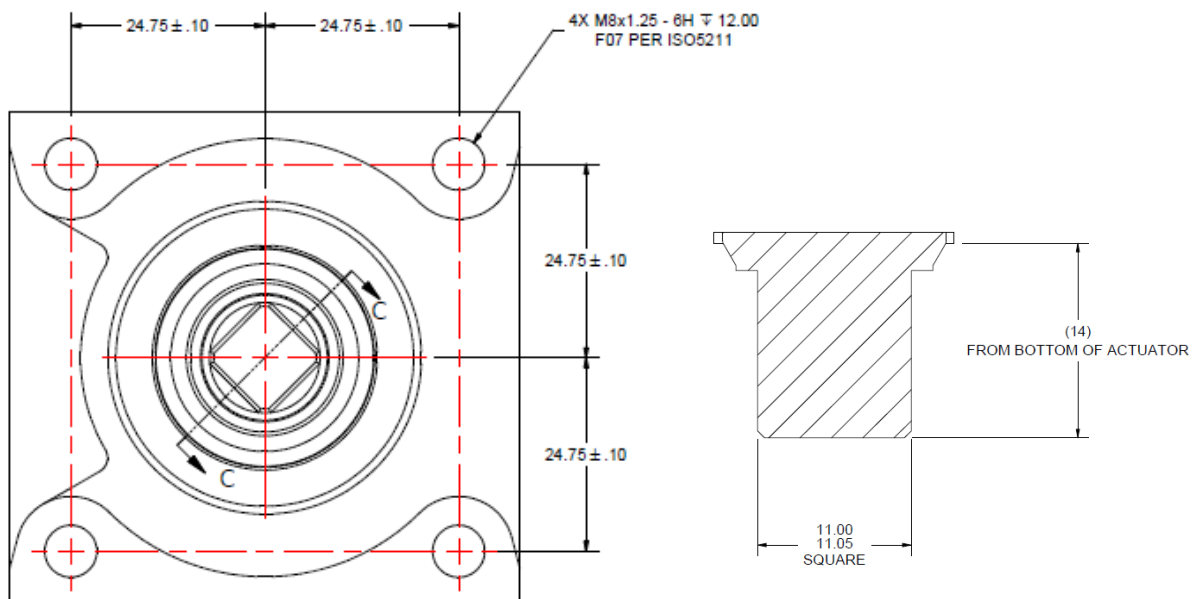
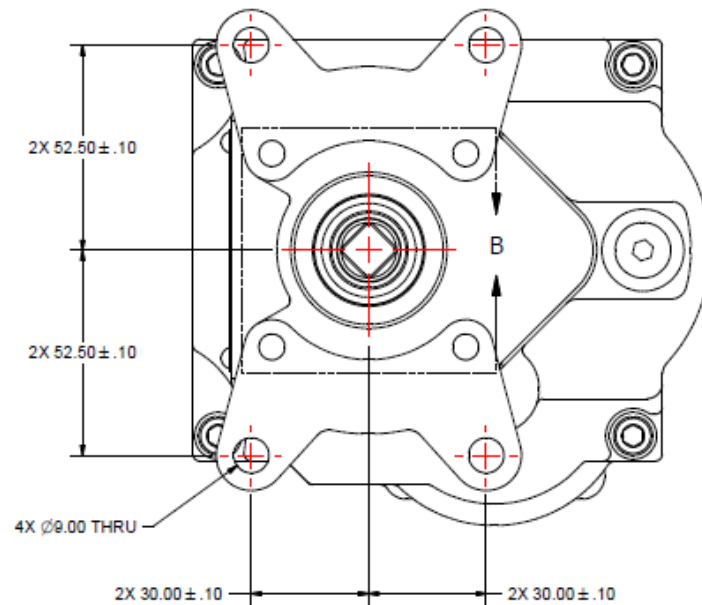
EHC10



Dimensions

EHC Series

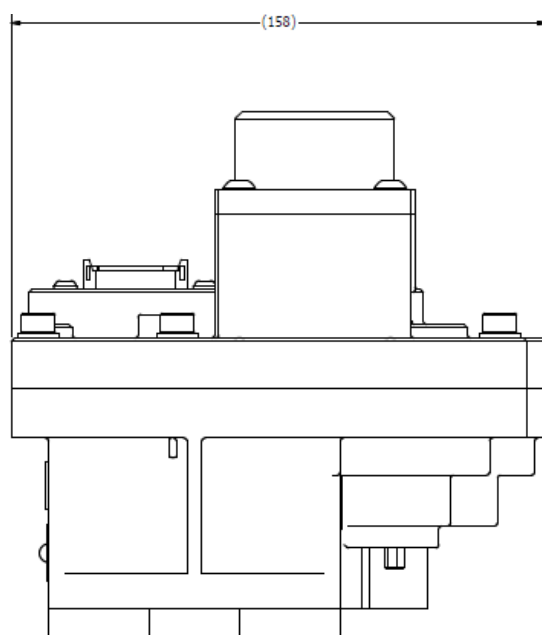
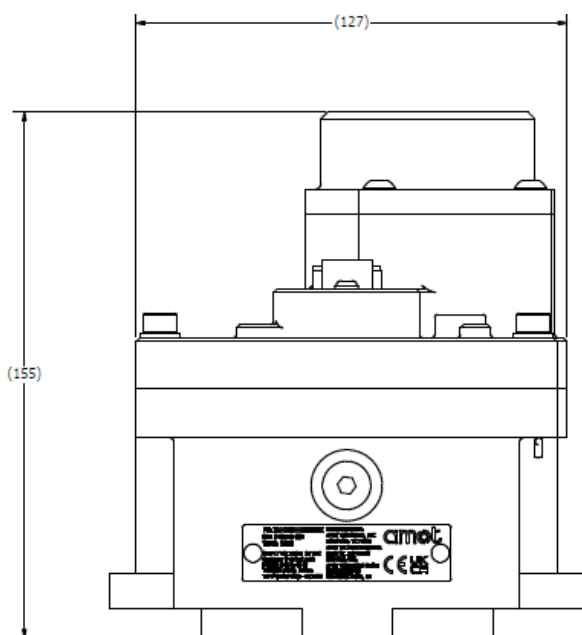
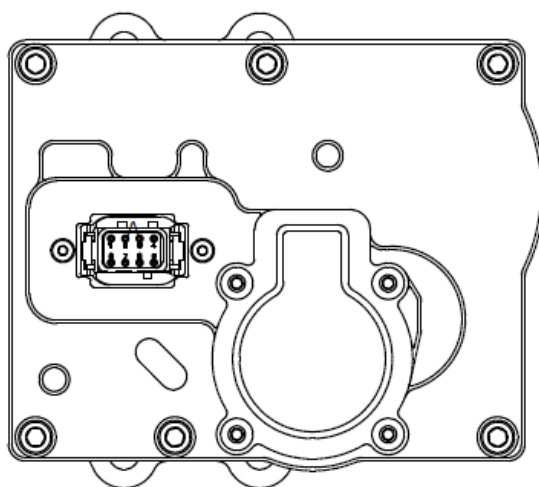
EHC10



Dimensions

EHC Series

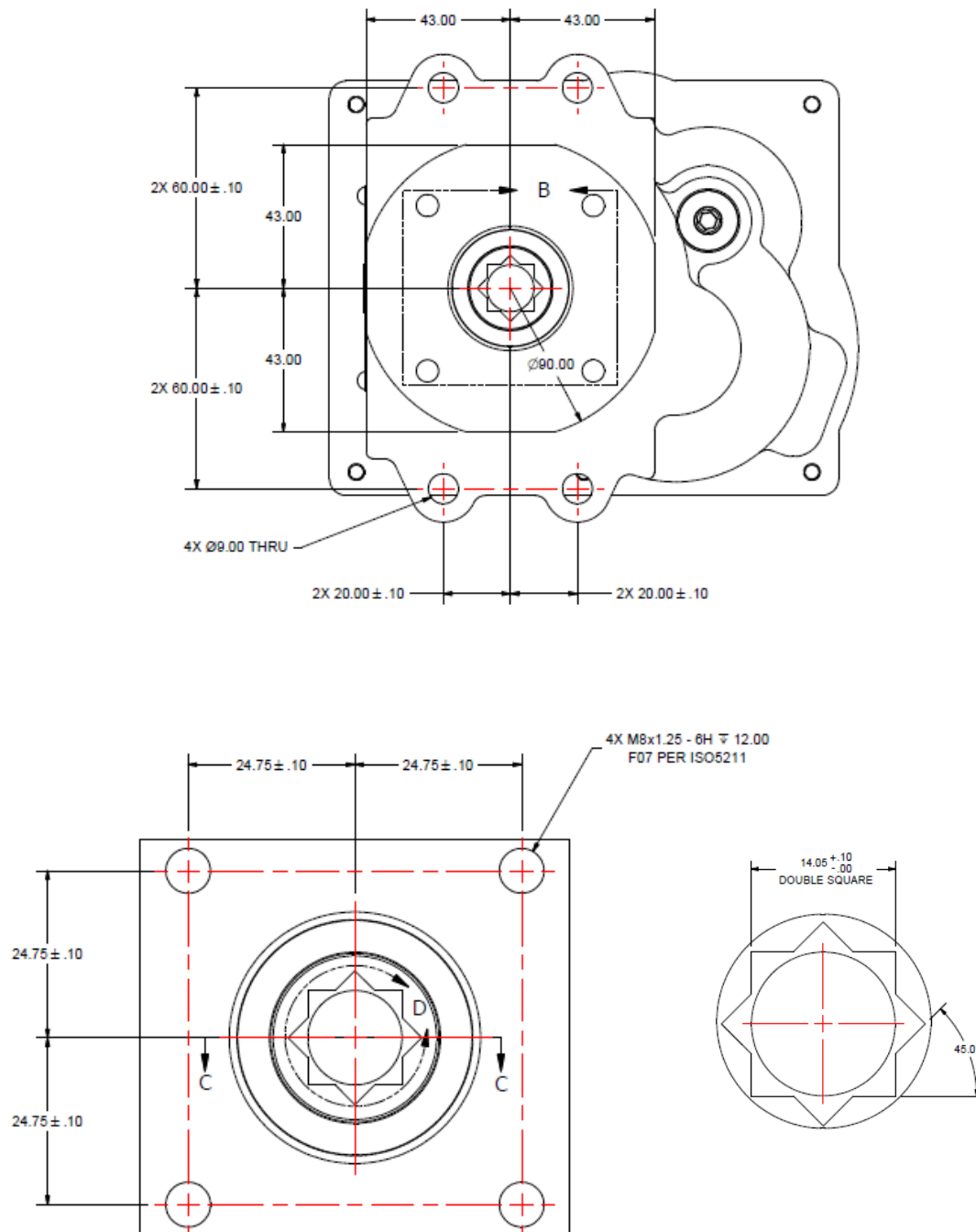
EHC25



Dimensions

EHC Series

EHC25



Specifications

EHC Series

Power	24V DC, 5A Max	
Duty Cycle	100%	
Limit Switches	CAN only, Software configurable	
Motor Thermal Protection	Fitted as standard	
Angular Rotation	90° standard	
Mounting	ISO5211 F07 pattern, High vibration mount pattern Mounted in any orientation	
Mass	10Nm = 2.5kg	25Nm = 4.0kg
Position Sensor	Hall Effect	
Cable Entry	8 pin bulkhead connector	
I/O	0-10 V, 4-20 mA, PWM, J1939 CAN Software configurable (1 input, 1 output)	
Electrical Safety	CE marked	
Mechanical Stop	Internal, non-adjustable	
Manual Override	10Nm = Optional	25Nm = Standard
Materials	Aluminium alloy, stainless steel	
External Coating	Anodized aluminum	
Weatherproof Enclosure	IP 67, IP 69K	
Ambient Temperature	-40°C to 125°C = standard	
Vibration Resistance	10+ GRMS random vibration	
Mechanical Shock	MIL-STD-810G, 516.6 Shock, 40G	
Life	Tested to +1M cycles	
Hazardous Area	IECEX IIB+H2 variants available	

Performance

Actuator	Quarter Turn Time (seconds)	Accuracy (deg)	Power
EHC10	0.5	0.5	24 VDC
EHC25	1.5	0.5	24 VDC

Note: Zero deadband

Example Code	EHC	10	A	A	1	B	B	2	A	Code Description
Actuator Type										Actuator Type
Actuator Type	EHC									Electric
Size										Size
Size		10								10Nm
		25								25Nm
		50								*50Nm (Available upon request)
Rotation Travel										Rotation Travel
Rotation Travel			A							90 Degrees
Failure State										Failure State
Failure State										Loss of Power
			A							Fail-in-Place
			B							Fail 0° (CCW Limit)
			C							Fail 90° (CW Limit)
			D							Fail 0° (CCW Limit)
			E							Fail 90° (CW Limit)
*Options D & E, EHC10 4 Nm max torque, EHC25 10Nm max torque *Options D & E have alternate outline										Loss of Signal
										Fail-in-Place
Supply Voltage										Supply Voltage
Supply Voltage					1					24VDC
Control Signal										Control Signal
Control Signal						B				4-20 mA
						C				20-4 mA
						K				0-10 VDC
						L				10-0 VDC
						M				0-1000 CAN J1939
						N				1000-0 CAN J1939
						R				0-100 PWM
						S				100-0 PWM
Note: Signal limits correspond to CCW limit (Start) to CW Limit (End). Ex: 4mA (CCW limit) – 20mA (CW limit)										
Feedback Signal										Feedback Signal
Feedback Signal						B				4-20 mA
						C				20-4 mA
						K				0-10 VDC
						L				10-0 VDC
						M				0-1000 CAN J1939
						N				1000-0 CAN J1939
						R				0-100 PWM
						S				100-0 PWM
Note: Signal limits correspond to CCW limit (Start) to CW Limit (End). Ex: 4mA (CCW limit) – 20mA (CW limit)										
Temperature										Temperature
Temperature								2		-40°C to 125°C
Wiring Connection										Wiring Connection
Wiring Connection									A	8 Pin bulkhead connector (Standard Option)

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