

## Valbia Plastic 190Nm Electric Valve Actuator

**Type: VB190** 

Available with actuator function: POWER OPEN - POWER CLOSE, FAILSAFE, MODULATING, FAILSAFE MODULATING

# **VB190**



#### Overview

The VB190 multi-voltage electric valve actuator from the European electric actuator manufacturer Valbia offers an impressive list of standard features that include multi-voltage capability, protection against damage from over-torque or condensation, and emergency hand operation facility.

Available modulating on request with either 4-20mA or 0-10V input and output, with factory fitted internal positioning system.

Available failsafe on request (except 12V version) with factory fitted internally installed battery back-up system.

VB190 VALBIA Electric Actuator Specifica	itions				
Voltage range / Duty rating	Low voltage version	12V AC (1ph) or DC / 50%			
		24V AC (1ph) or DC / 75%			
	High voltage version	100-240V AC (1ph) / 75%			
Operating time (0-90° no load)	27 seconds				
Maximum break torque	190 Nm (1682 lb.ins)				
P Rating (IEC 60529)		IP67			
Working angle Standard (on request)		90° (180° & 270° option)			
Mounting ISO:5211 x DIN 3337		F07 & F010 x 17 (std)			
Motor switches		2 x SPDT micro switches			
End of travel confirmation (volt free)		2 x SPDT micro switches			
Heater		Yes			
Ambient temperature range		-20° to +55°C (-4 to +131°F)			
Electrical connections		PG11 x 2			
Veight		4.9 kg			
VB190 Consumption					
High Voltage Version	Nominal Voltage	100-240V AC (1 ph 50/60Hz)			
	Current	0.3 - 0.6A			
	Power	60-72 VA			
High Voltage Version	Nominal Voltage	12V AC/DC / 24V AC/DC			
	Current 12V / 24V	2.85 - 3.8A / 1.2 - 1.8A			
	Power	34 - 46A / 29 - 43VA			
requency		50/60Hz			

#### How this VB190 electric 1/4 turn valve actuator works (on-off)

Electrically operated valves are driven by an electric actuator containing a motor and gearbox. On receipt of a continuous voltage signal (not pulse) the motor runs and, via a gearbox in the electric actuator, rotates the valve stem. The motor stops at the desired position (usually 0° or 90°) by an internal cam striking a micro-switch. The valve actuator remains in this position, with the voltage still applied continuously, until switched and a continuous voltage reversing signal (not pulse) is applied, which runs the motor in the opposite direction, reversing the rotation until a separate internal cam strikes a separate micro-switch and stop the motor. The VB190 actuator is designed to have the external power continuously applied, and power must not be switched off when end of travel is achieved.



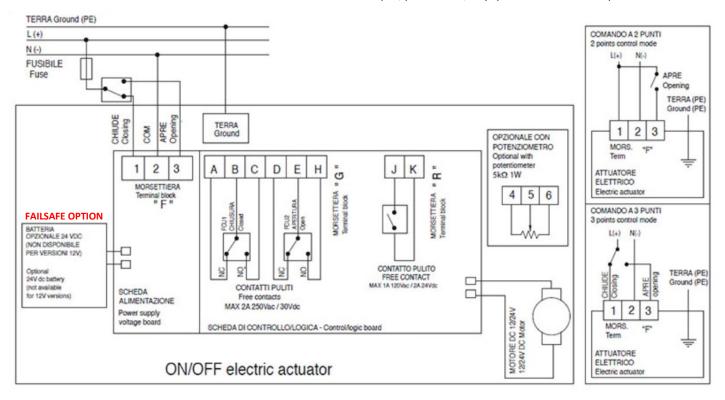


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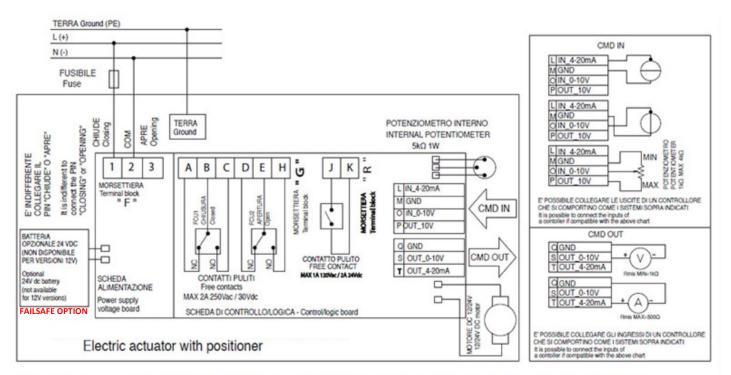
#### **Electrical Connections**

## **VB-190 ON - OFF ELECTRIC ACTUATOR** Power open, power close, stays put on loss of external power.



### **VB-190 MODULATING ELECTRIC ACTUATOR**

Proportional control, stays put on loss of external power.



Evitare che il segnale di massa/neutro dell'alimentazione COM collegato al morsetto "2" della morsettiera "F", non sia allo stesso potenziale elettrico della massa del segnale di comando "GND" della morsettiera "CDM IN" o della massa dell'uscita di segnalazione "GND" della morsettiera "CDM OUT".

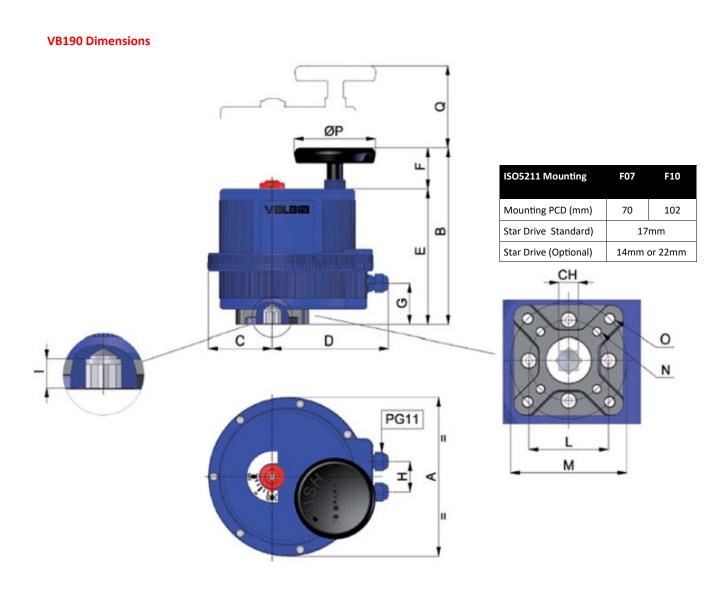
The power supply COM signal ( pin "2" terminal block "F") must not share the same electrical command ground signal ( pin "GND" terminal block "CDM IN") or feedback ground signal (pin "GND" terminal block "CDM OUT").





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Dimensions (mm):															
СН	Α	В	С	D	E	F	G	Н	I	L	М	N	0	Р	Q
17	211	232.1	84	153	178	54.1	52	40	19	70	102	M*x20	M10x20	110	105

