

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

VB190M



Overview

The VB190M aluminum housed 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.

VB190M VALBIA Electric Actuator Specifications

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		1682lb.ins (190Nm)
IP Rating (IEC 60529)		Similar to NEMA 4 (IP67 Type 4)
Working angle Standard (on request)		90° (180° & 270° option)
Mounting ISO:5211 x DIN 3337		F07 & F10 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		-4 to +131°F (-20° to +55°C)
Electrical connections		M20x1.5 x 2
Weight		18.7lbs (8.5 kg)

VB190M 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	22 - 26.5VA / 17 - 24VA
Frequency		50/60Hz

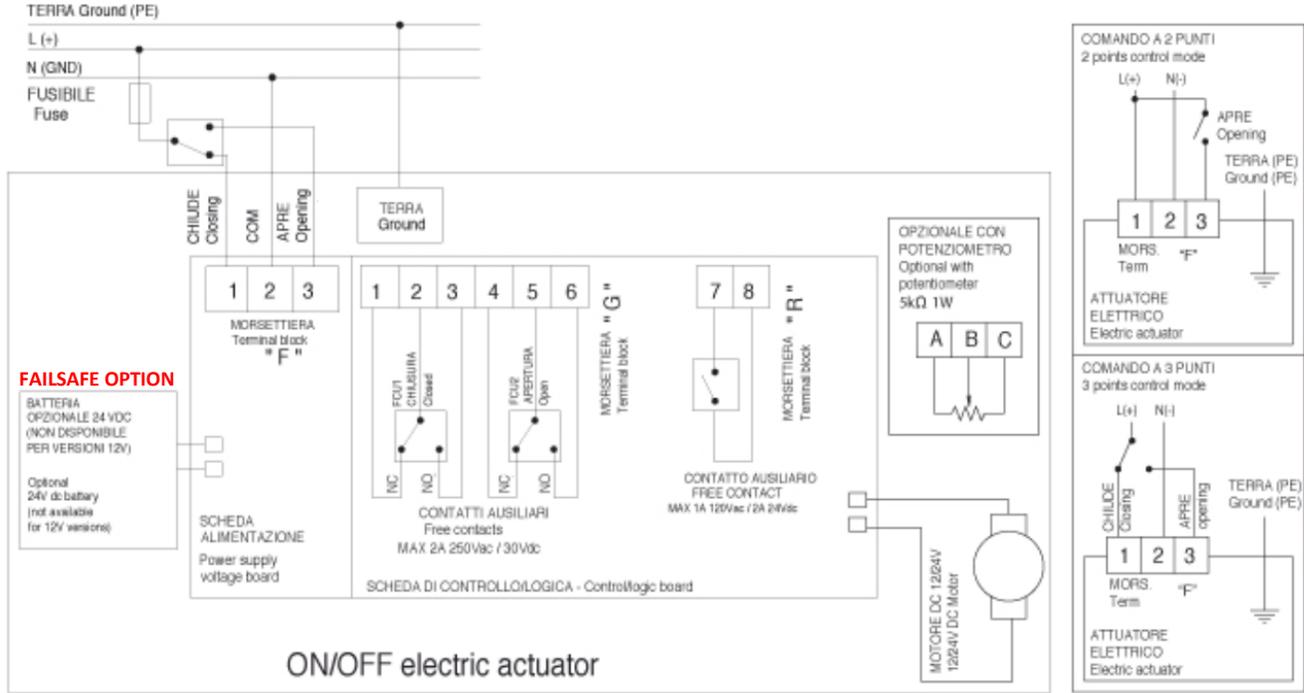
How this VB190M electric 1/4 turn valve actuator works (on-off)

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 VB190M 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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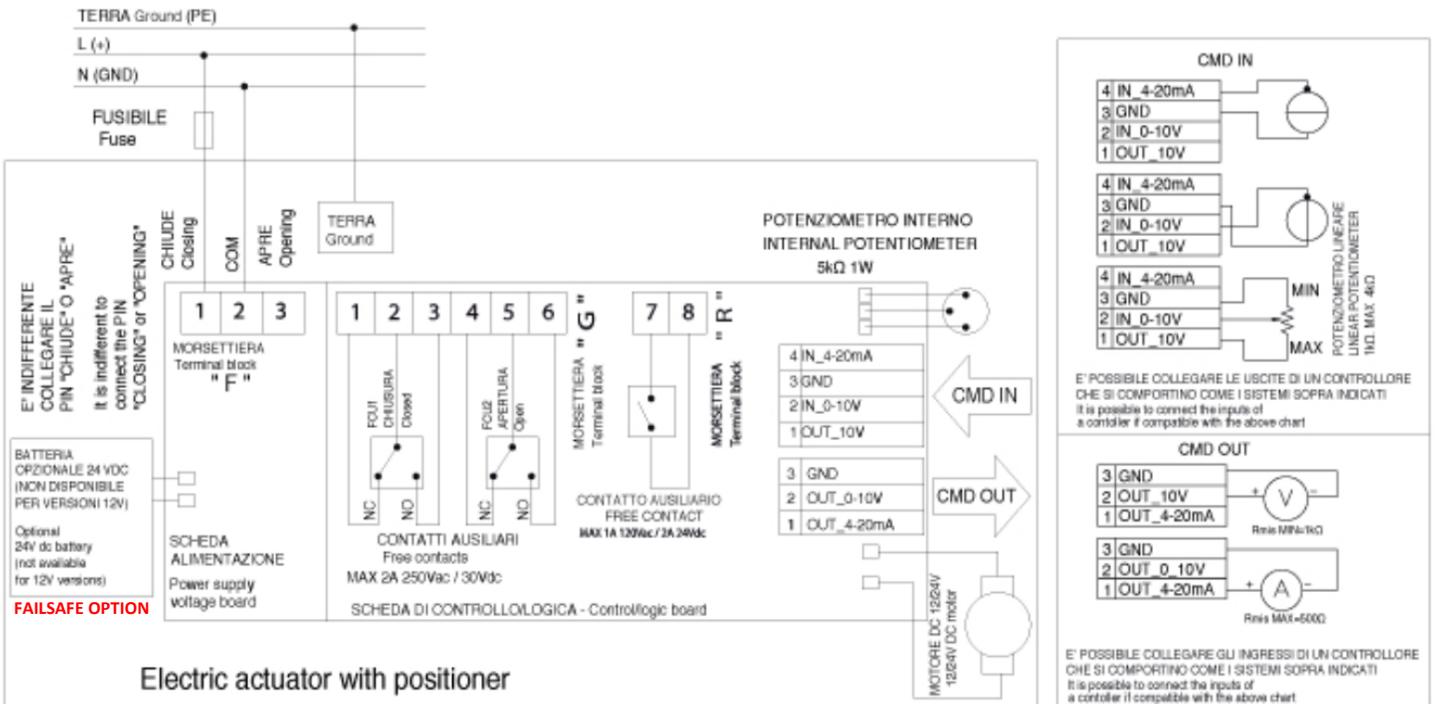
VB190M ON - OFF ELECTRIC ACTUATOR

Power open, power close, stays put on loss of external power.



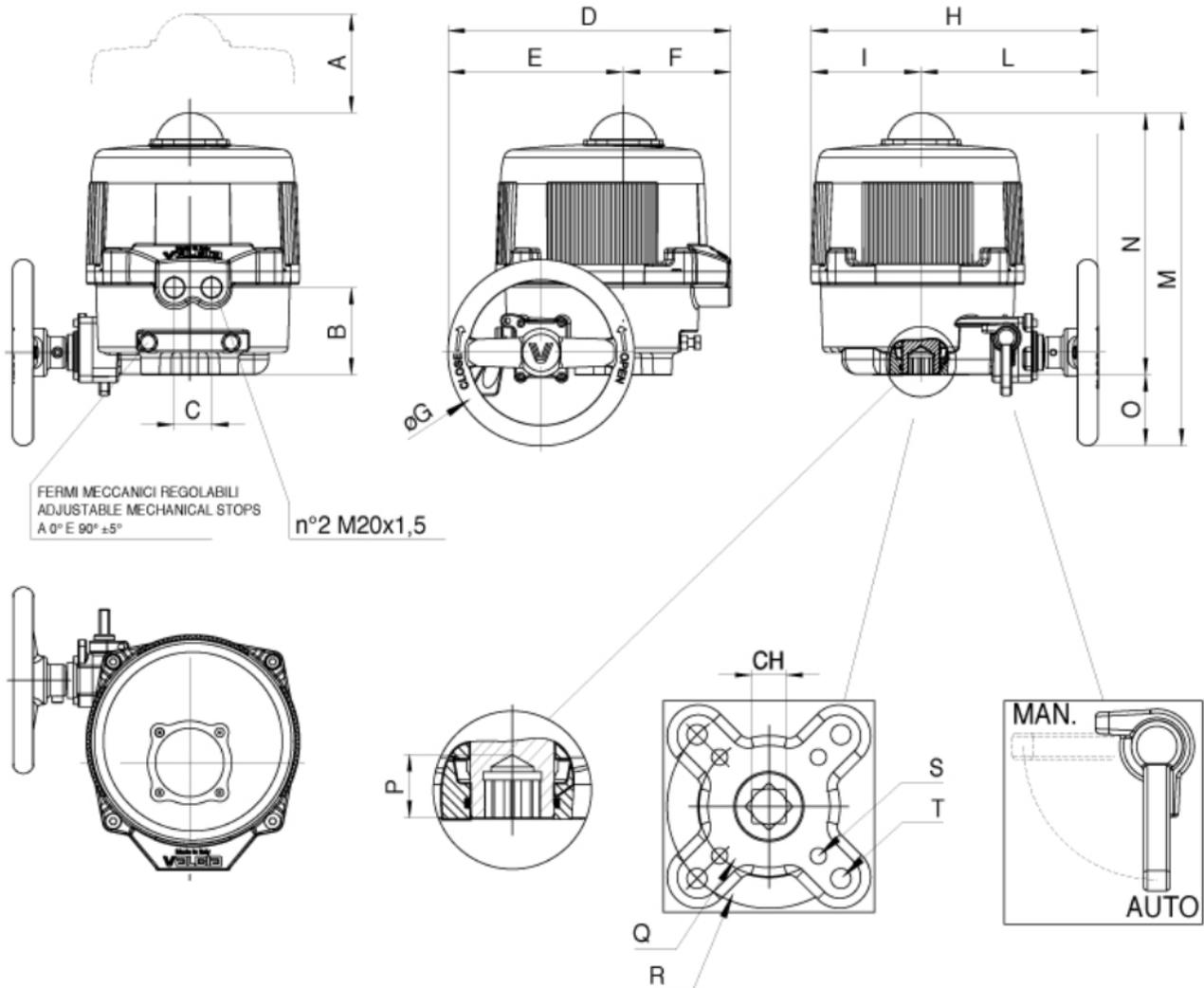
VB-190M MODULATING ELECTRIC ACTUATOR

Proportional control, stays put on loss of external power.



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VB190M Dimensions (mm)



ISO5211 Mounting	F07	F10
Mounting PCD (mm)	50	70
Star Drive Standard)	17mm	
Star Drive (Optional)	14mm or 22mm	

Dimensions (mm):

CH	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T
17	139	82	35	266	165	101	175	270	103	167	313	246	67	19	70	102	M8x15	M10x15