

GENERAL SPECIFICATIONS

The VALBIA electric actuators are suitable for the automation of ball and butterfly valves for the industrial and construction sector. The usage of electronic components of last generation, together with precise mechanic, fruit of careful research and development, enables high performance and long-term reliability of the product.

The range has been manufactured with following characteristics:

- The housing of the actuators provides a V0 self-extinguish Class techno-polymer material.
- The kinematics is made by two steel and techno-polymer gear wheels, sustained by hardened steel pinions, mounted on self-lubricating bushes (excluding mod. VB015), and inserted in a strong structure of die-cast aluminium.
- The connection part of the actuators with the valves, is made by a die-casted and painted aluminium plate cataphoresis, with a dual drilling interface as per the ISO5211 – DIN 3337 Standard.
- The electronic circuit adjusts automatically the motor speed depending on the mechanical charge variations in order to drive the cycle always in the same time.
- All actuators are provided with an electronic system for torque limiter.
- The whole actuator range is standard provided of Heater actives with the powered actuator.
- Whole range of actuators (except for VB015 and for 12V power supply) are modulable: standard setting is 4-20 mA or 0-10 V. Reverse option 20-4 mA or 10-0 V is programmable (except for 12 V power supply).
- All electric actuators (except for VB015) can be equipped with linear potentiometer ratind 5K Ω .
- All electric actuators (except for VB015 and for 12V power supply), can be equipped with battery for emergency control.

MODEL		VB015	VB030	VB060	VB110	VB190	VB270	VB350
MAX WORKING TORQUE (Nm)		15	30	60	110	190	270	350
VOLTAGE (V)	LOW VOLTAGE	12V AC/DC	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC
		24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC
	MULTIVOLTAGE	100-240V AC	100-240V AC	100-240V AC	100-240V AC	100-240V AC	100-240V AC	100-240V AC
WORKING TIME (sec)		10	8	9	27	27	50	50
TORQUE LIMITER		STD	STD	STD	STD	STD	STD	STD
DUTY RATING		12VAC/24VAC 50% 12VDC/24VDC 75% 100-240VAC	75%	75%	75%	75%	75%	75%
PROTECTION		IP65	IP67	IP67	IP67	IP67	IP67	IP67
ROTATION		90°	90°	90°	90°	90°	90°	90°
UPON REQUEST		180°	180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°
MANUAL INTERVENTION		STD	STD	STD	STD	STD	STD	STD
POSITION INDICATOR		STD	STD	STD	STD	STD	STD	STD
WORKING TEMPERATURE		-20°C + 55°C	-20°C + 55°C	-20°C + 55°C	-20°C + 55°C	-20°C + 55°C	-20°C + 55°C	-20°C + 55°C
HEATER		STD	STD	STD	STD	STD	STD	STD
ADDITIONAL FREE LIMIT SWITCHES		n°2 STD	n°2 STD	n°2 STD	n°2 STD	n°2 STD	n°2 STD	n°2 STD
DRILLING ISO 5211		★F03 - F05	★F03 - F05	F05 - F07	F07 - F10	F07 - F10	F07 - F10	F07 - F10
SQUARE (mm)		11	11	14	17	17	22	22
SQUARE UPON REQUEST		9	9-14	11-17	14-22	14-22	17	17
SAFETY BLOCK		NOT AVAILABLE	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST
POSITIONER STD (4-20mA or 0-10 VDC) REVERSE (20-4mA or 10-0 VDC)		NOT AVAILABLE	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST
LINEAR POTENTIOMETER (5K Ω 1W)		NOT AVAILABLE	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST
ELECTRICAL CONNECTIONS		PG11	PG11	PG11	PG11	PG11	PG11	PG11
WEIGHT (Kg)		1.40	2.30	3.30	4.90	4.90	6.00	6.00