



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, thanks to a 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 steel and techno-polymer gear wheels, sustained by hardened steel pinions, mounted on self-lubricating bushes and inserted in a strong structure of die-cast aluminium (excluding mod. VB015).
- 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 load variations in order to drive the cycle always in the same time.
- The whole range of actuators is provided with an electronic safety system for the torque control (torque limiter).
- The whole range of actuators is standard provided of heater activated with the powered actuator.
- The whole range of actuators (except for mod. VB015) is modifiable: and programmable in standard mode (4-20 mA or 0-10V) or reverse mode (20-4 mA or 10-0V)
- All electric actuators (except for mod. VB015) can be equipped with rotary potentiometer (5K Ω 1W).
- All electric actuators (except for mod. VB015 and for 12V power supply), can be equipped with battery backup for emergency control.

MODEL		VB015	VB030	VB060	VB110	VB190	VB270	VB350
MAX WORKING TORQUE (Nm)		15	30	60	110	190	270	350
NOMINAL TENSION (V)	LOW VOLTAGE	12V AC/DC	12V AC/DC	12V AC/DC	12V AC/DC	12V AC/DC	12V AC/DC	12V AC/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%	12V AC/DC	50%	12V AC/DC	50%	12V AC/DC	50%
	12VDC/24VDC	75%	24V AC/DC	75%	24V AC/DC	75%	24V AC/DC	75%
	100-240V AC		100-240V AC		100-240V AC		100-240V AC	
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 OVERRIDE		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 (type SPDT)	n°2 STD (type SPDT)	n°2 STD (type SPDT)	n°2 STD (type SPDT)	n°2 STD (type SPDT)	n°2 STD (type SPDT)	n°2 STD (type SPDT)
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 (mm)		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
			NOT AVAILABLE FOR MOD 12V					
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 1 W)		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

* F04 or F07 upon request

Electric Actuators



Also available with UL approval.

STANDARD VERSION 0° - 90° (ON REQUEST 0° - 180° / 0° - 270°)

MODEL	VB015	VB030	VB060	VB110	VB190	VB270	VB350
VOLTAGE	100-240V AC						
CODE	85H00001	85H00003	85H00006	85H00011	85H00019	85H00027	85H00035
VOLTAGE	24V AC/DC						
CODE	85L00001	85L00003	85L00006	85L00011	85L00019	85L00027	85L00035
VOLTAGE	12V AC/DC						
CODE	85L10001	85L10003	85L10006	85L10011	85L10019	85L10027	85L10035

VERSION WITH BATTERY BACKUP

MODEL	VB015	VB030	VB060	VB110	VB190	VB270	VB350
VOLTAGE	100-240V AC						
CODE OPERATING N.C.	NOT AVAILABLE	85H00203	85H00206	85H00211	85H00219	85H00227	85H00235
VOLTAGE	24V AC/DC						
CODE OPERATING N.C.	NOT AVAILABLE	85L00203	85L00206	85L00211	85L00219	85L00227	85L00235

For a different setting than (normally closed) of the operation of the electric actuator with battery pack, please contact sales department.

VERSION WITH POSITIONER STD (4-20 mA or 0-10V) OR REVERSE (20-4 mA or 10-0V)

MODEL	VB015	VB030	VB060	VB110	VB190	VB270	VB350
VOLTAGE	100-240V AC						
CODE	NOT AVAILABLE	85H00603	85H00606	85H00611	85H00619	85H00627	85H00635
VOLTAGE	24V AC/DC						
CODE	NOT AVAILABLE	85L00603	85L00606	85L00611	85L00619	85L00627	85L00635
VOLTAGE	12V AC/DC						
CODE	NOT AVAILABLE	85L10603	85L10606	85L10611	85L10619	85L10627	85L10635

VERSION WITH POTENTIOMETER

MODEL	VB015	VB030	VB060	VB110	VB190	VB270	VB350
VOLTAGE	100-240V AC						
CODE	NOT AVAILABLE	85H02003	85H02006	85H02011	85H02019	85H02027	85H02035
VOLTAGE	24V AC/DC						
CODE	NOT AVAILABLE	85L02003	85L02006	85L02011	85L02019	85L02027	85L02035
VOLTAGE	12V AC/DC						
CODE	NOT AVAILABLE	85L12003	85L12006	85L12011	85L12019	85L12027	85L12035

VERSION WITH BATTERY BACKUP AND POSITIONER STD (4-20 mA or 0-10V) OR REVERSE (20-4 mA or 10-0V)

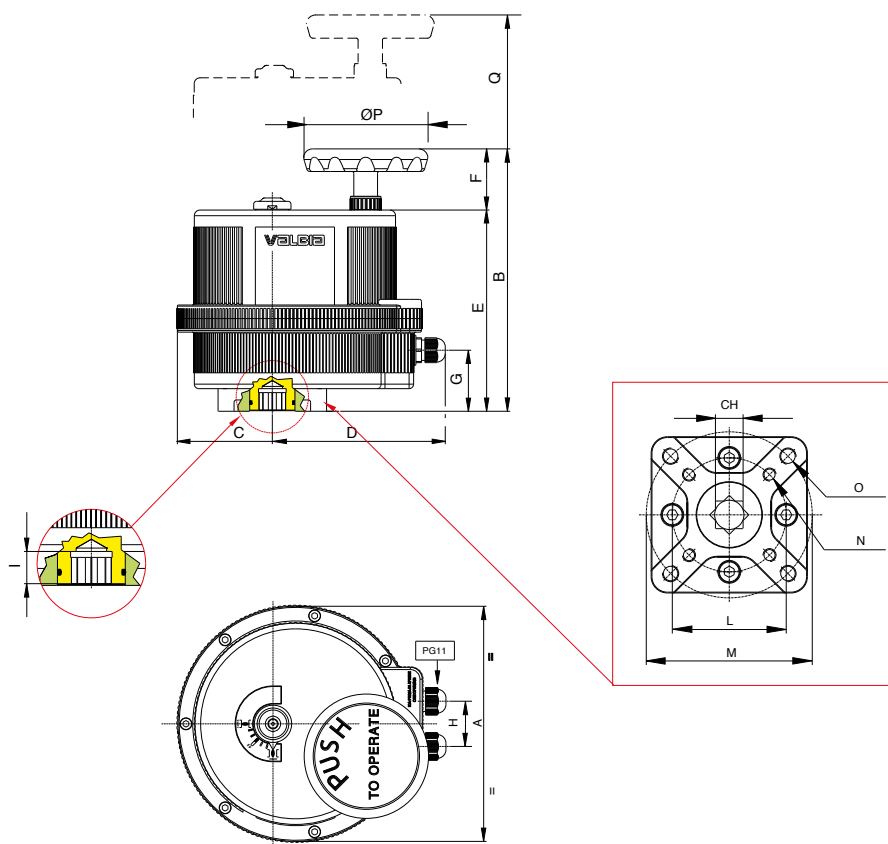
MODEL	VB015	VB030	VB060	VB110	VB190	VB270	VB350
VOLTAGE	100-240V AC						
CODE OPERATING N.C.	NOT AVAILABLE	85H0CA03	85H0CA06	85H0CA11	85H0CA19	85H0CA27	85H0CA35
VOLTAGE	24V AC/DC						
CODE OPERATING N.C.	NON DISPONIBILE - NOT AVAILABLE	85L0CA03	85L0CA06	85L0CA11	85L0CA19	85L0CA27	85L0CA35

For a different setting than (normally closed) of the operation of the electric actuator with battery pack, please contact sales department.

Electric Actuator Consumption and Dimensional Data



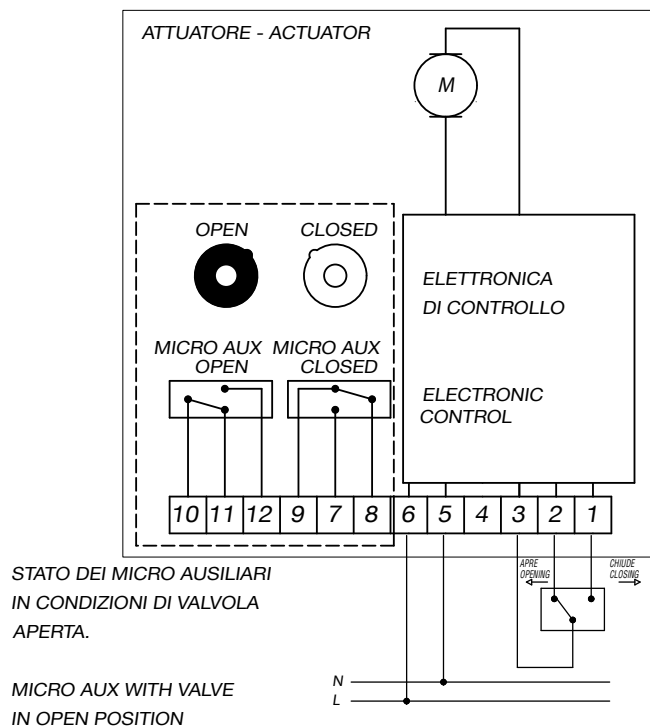
MODEL			VB015		VB030		VB060		VB110		VB190		VB270		VB350	
VERSION H	NOMINAL VOLTAGE		100-240V AC													
	ABSORBED CURRENT		0.3-0.19 A		0.4-0.2 A		0.6-0.3 A		0.4-0.2 A		0.6-0.3 A		0,6-0,3 A		0.75-0.4 A	
	ABSORBED POWER		30-46 VA		40-48 VA		60-72 VA		40-48 VA		60-72 VA		60-72 VA		75-96 VA	
VERSION L	NOMINAL VOLTAGE		12V AC/DC	24V AC/DC	12V AC/DC	24V AC/DC	12V AC/DC	24V AC/DC	12V AC/DC	24V AC/DC	12V AC/DC	24V AC/DC	12V AC/DC	24V AC/DC	12V AC/DC	24V AC/DC
	ABSORBED CURRENT		1.2 A	0.6 A	2.2-1.8 A	1-0.7 A	3.8-2.85 A	1.8-1.2 A	2.2-1.8 A	1-0.7 A	3.8-2.85 A	1.8-1.2 A	3.8-2.85 A	1.8-1.2 A	4.75-3.65 A	1.95-1.65 A
	ABSORBED POWER		15 VA		26.5-22 VA	24-17 VA	46-34 VA	43-29 VA	26.5-22 VA	24-17 VA	46-34 VA	43-29 VA	46-34 VA	43-29 VA	57-44 VA	47-40 VA
	FREQUENCY		50/60 HZ													



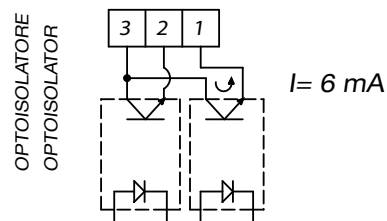
MOD.	DRILLING ISO 5211	CH	A	B	C	D	E	F	G	H	I	L	M	N	O	ØP	Q
VB015	F03-F05*	11	123	141.5	42.5	120.5	126	15.5	103	32	14	36	50	M5X12	M6X14	68	65
VB030	F03-F05*	11	157	188	60.5	129.5	146	42	33	36	12	36	50	M5X12	M6X14	65	100
VB060	F05-F07	14	185	215	67.5	146.5	173	42	51	36	16	50	70	M6X15	M8X17	65	110
VB110	F07-F10	17	211	232.1	84	153	178	54.1	54	40	19	70	102	M8X20	M10X20	110	115
VB190	F07-F10	17	211	232.1	84	153	178	54.1	54	40	19	70	102	M8x20	M10x20	110	115
VB270	F07-F10	22	222	233.5	77	170	182	51.5	54	40	24	70	102	M8x20	M10x20	110	115
VB350	F07-F10	22	222	233.5	77	170	182	51.5	54	40	24	70	102	M8x20	M10x20	110	115

*Upon request F04 or F07

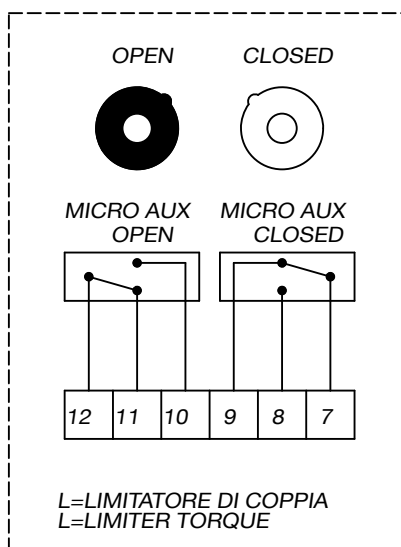
Electric Wiring VB015 100–240V 50/60Hz



COMANDO STATICO OPTOISOLATO DA PLC
STATIC IMPULSE DRIVE OPTOISOLATED BY PLC



Electric Wiring VB015 12V–24V AC/DC 50/60 Hz



STATO DEI MICRO AUSILIARI
IN CONDIZIONI DI VALVOLA
APERTA.

MICRO AUX WITH VALVE
IN OPEN POSITION

