



GENERAL SPECIFICATIONS

NEW – DESIGN PROTECTED

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.

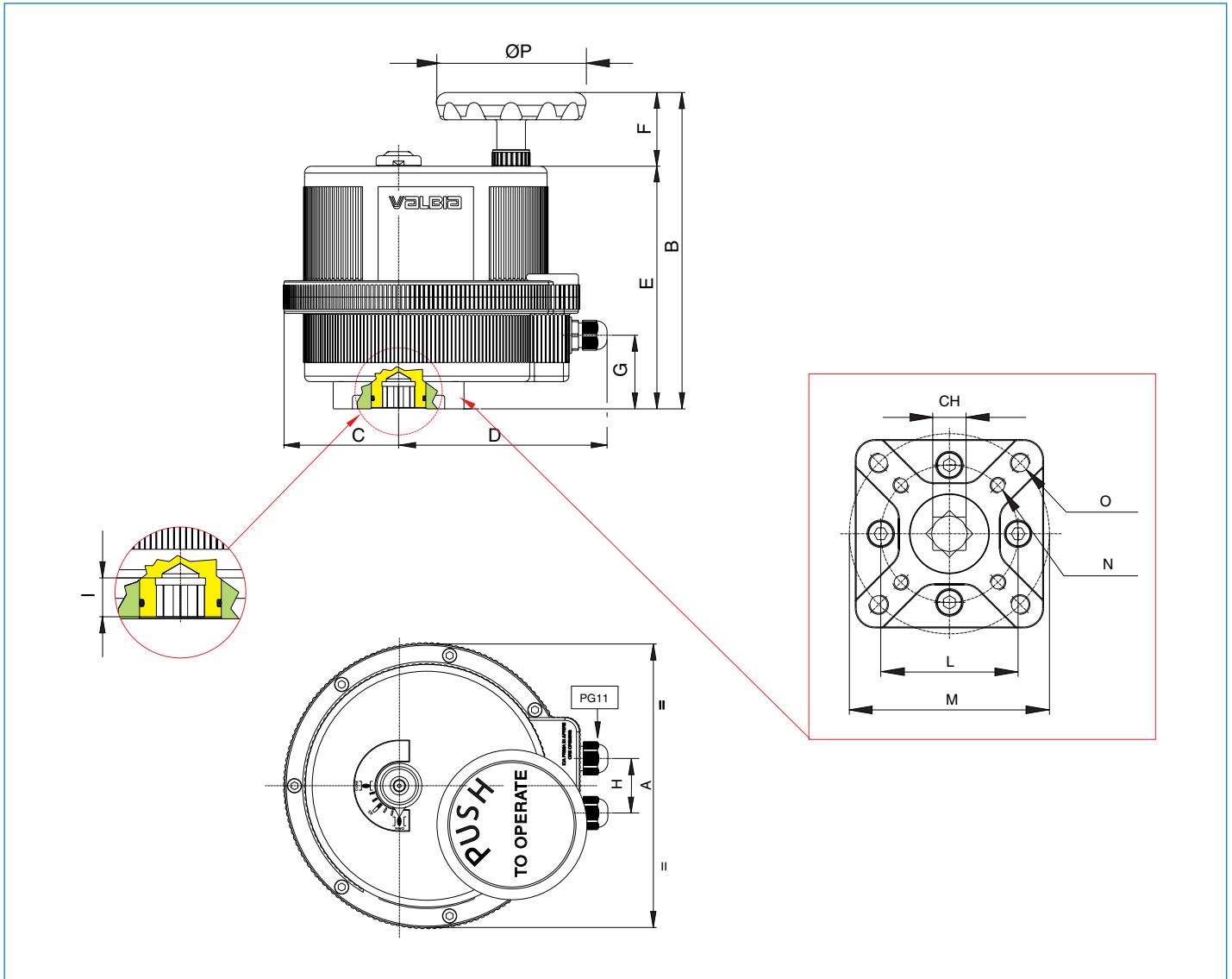
The range has been manufactured with following characteristics:

- 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, 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.
- A heating resistance is activated, by powered actuator, once the temperature inside the housing drops below 77°F and the motor is not running.
- Valbia may supply (on request) electric actuators (MOD. VB015 excluded) with modulating option 4-20mA or 0-10V, or with battery block for safety operation.
- Grant of the UL authorization under evaluation.

MODEL			VB015	VB030	VB060	VB110	VB190	VB270	VB350
MAX WORKING TORQUE (in-Lbs)			133	266	530	975	1.680	2.390	3.100
1	TENSION (V)	LOW TENSION	12/24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC
		HIGH TENSION MULTITENSION	110V AC 220V AC NOT AVAILABLE	100-240V AC	100-240V AC	100-240V AC	100-240V AC	100-240V AC	100-240V AC
2	WORKING TIME (sec.)		12/24V 10 110/220V 25	8	9	27	27	50	50
3	TORQUE LIMITER		STD	STD	STD	STD	STD	STD	STD
4	DUTY RATING		50%	75%	75%	75%	75%	75%	75%
5	PROTECTION		IP65-67	IP65-67	IP65-67	IP65-67	IP65-67	IP65-67	IP65-67
6	ROTATION		90°	90°	90°	90°	90°	90°	90°
7	UPON REQUEST		180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°
8	MANUAL INTERVENTION		STD	STD	STD	STD	STD	STD	STD
9	POSITION INDICATOR		STD	STD	STD	STD	STD	STD	STD
10	WORKING TEMPERATURE		-4°F + 131°F	-4°F + 131°F	-4°F + 131°F	-4°F + 131°F	-4°F + 131°F	-4°F + 131°F	-4°F + 131°F
11	HEATER		STD	STD	STD	STD	STD	STD	STD
12	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
13	DRILLING ISO 5211		F03* - F05	F03* - F05	F05 - F07	F07 - F10	F07 - F10	F07 - F10	F07 - F10
14	SQUARE (in)		0.43	0.43	0.55	0.67	0.67	0.67	0.67
15	SQUARE UPON REQUEST		0.35	0.35-0.55	0.43-0.67	0.55-0.87	0.55-0.87	0.55-0.87	0.55-0.87
16	SAFETY BLOCK		NOT AVAILABLE	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST
17	POSITIONER (4~20mA or 0~10 VDC)		NOT AVAILABLE	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST
18	ELECTRICAL CONNECTIONS		PG11	PG11	PG11	PG11	PG11	PG11	PG11
19	WEIGHT (Lbs)		3.09	5.07	7.28	10.80	10.80	13.23	13.23

* Upon request F04 only

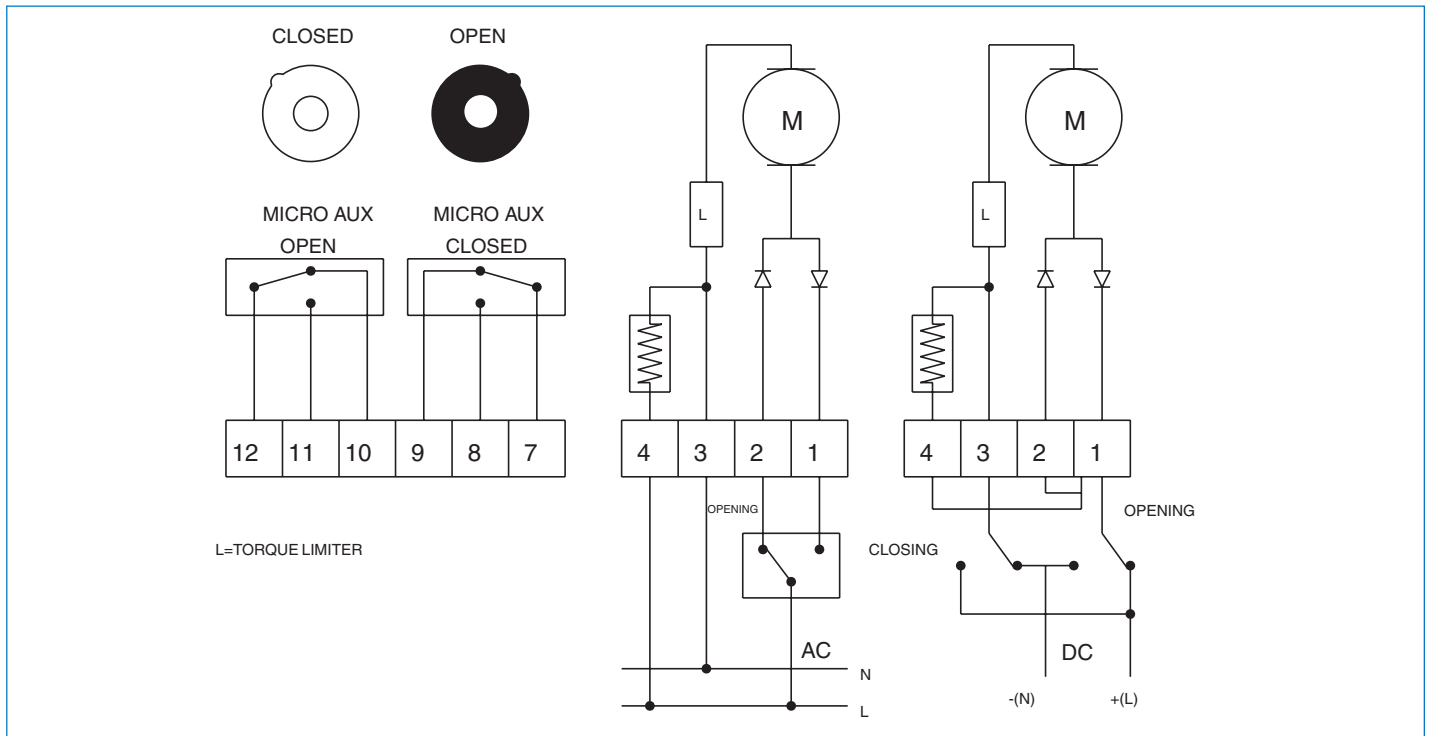
ELECTRIC ACTUATOR CONSUME DATA									
VERSION H	MODEL	VB015		VB030	VB060	VB110	VB190	VB270	VB350
		NOMINAL TENSION	110V ac	220V ac	100-240 V ac				
	ABSORBED CURRENT	50mA	25mA	0,3-0,2A	0,6-0,3A				
	ABSORBED POWER	6,6 VA	6 VA	30-48VA	60-72 VA				
VERSION L	NOMINAL TENSION	12 ac/dc		24V ac/dc					
	ABSORBED CURRENT	1,2A	0,6A	1,0A	1,8A	1,0A	1,8A	1,8A	1,8A
	ABSORBED POWER	15 VA	15 VA	24 VA	44 VA	24 VA	44 VA	44 VA	44 VA
	FREQUENCY	50/60 Hz							



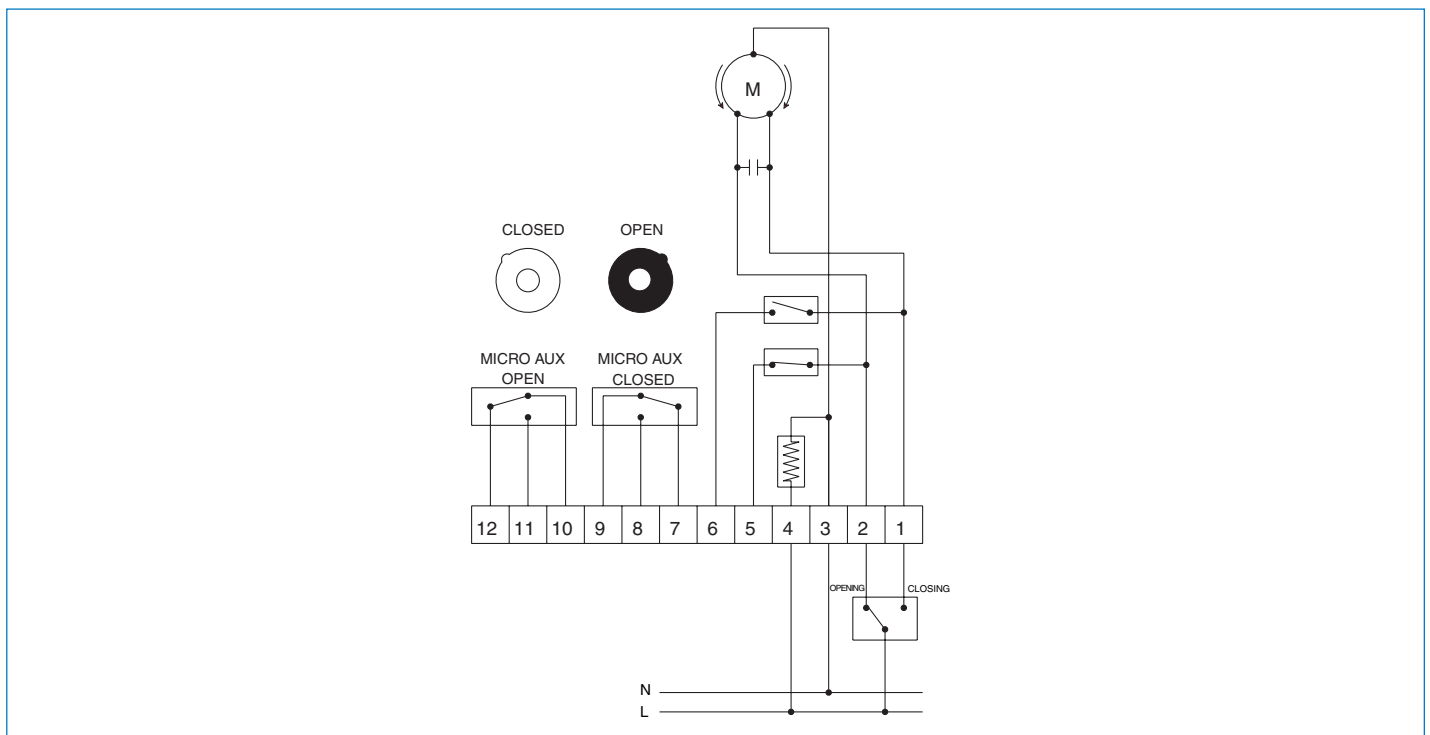
MOD.	DRILLING ISO 5211	CH	A	B	C	D	E	F	G	H	I	L	M	N	O	ØP
VB015	F03 - F05 *	0.43	4.84	5.57	1.67	4.74	4.96	0.61	4.35	1.26	0.55	1.42	1.97	10-24 UNC 2BX0.47	1/4-20 UNC 2BX0.55	2.68
VB030	F03 - F05 *	0.43	6.18	7.40	2.38	5.12	5.75	1.65	1.30	1.42	0.47	1.42	1.97	10-24 UNC 2BX0.47	1/4-20 UNC 2BX0.55	2.56
VB060	F05 - F07	0.55	7.28	8.46	2.66	5.77	6.81	1.65	2.01	1.42	0.63	1.97	2.76	1/4-20 UNC 2BX0.59	5/16-18 UNC 2BX0.67	2.56
VB110	F07 - F10	0.67	8.31	9.14	3.31	6.02	7.01	2.13	2.13	1.58	0.75	2.76	4.02	5/16-18 UNC 2BX0.79	3/8-16 UNC 2BX0.79	4.33
VB190	F07 - F10	0.67	8.31	9.14	3.31	6.02	7.01	2.13	2.13	1.58	0.75	2.76	4.02	5/16-18 UNC 2BX0.79	3/8-16 UNC 2BX0.79	4.33
VB270	F07 - F10	0.67	8.74	9.19	3.03	6.69	7.17	2.03	2.13	1.58	0.75	2.76	4.02	5/16-18 UNC 2BX0.79	3/8-16 UNC 2BX0.79	4.33
VB350	F07 - F10	0.67	8.74	9.19	3.03	6.69	7.17	2.03	2.13	1.58	0.75	2.76	4.02	5/16-18 UNC 2BX0.79	3/8-16 UNC 2BX0.79	4.33

* Upon request F04 only

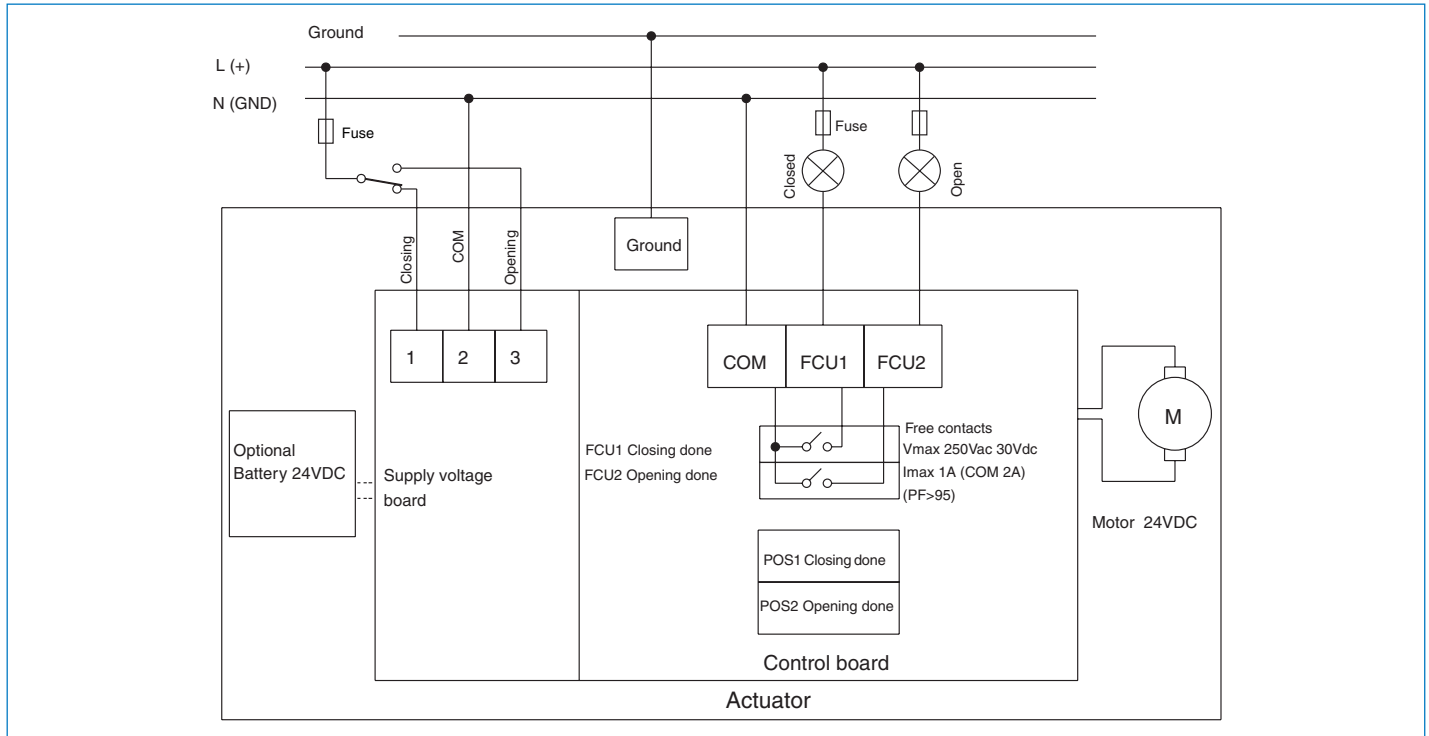
ELECTRIC WIRING VB015 12V-24V AC/DC



ELECTRIC WIRING VB015 1 15V-230V AC



ELECTRIC SPECIFICATION FROM VB30 TO VB350



CABLING OF THE POSITIONER FROM VB30 TO VB350

