

VALBIA



ELECTRIC ACTUATORS



Valbia	
SIRIOZZO (BS) - ITALY	
MODEL	www.valbia.it
CCP	valbia@bonomi.it
VOLTAGE	VB190
WATTAGE	85H00019
TEMPERATURE	VERSION HT
27 sec	100-240V ac
-4°F +131°F	TORQUE 1680 Lbf.in
	DUTY 75%
	SERIE 42 BF
	IP 66
	NEMA 4

BONOMI
USA, INC.



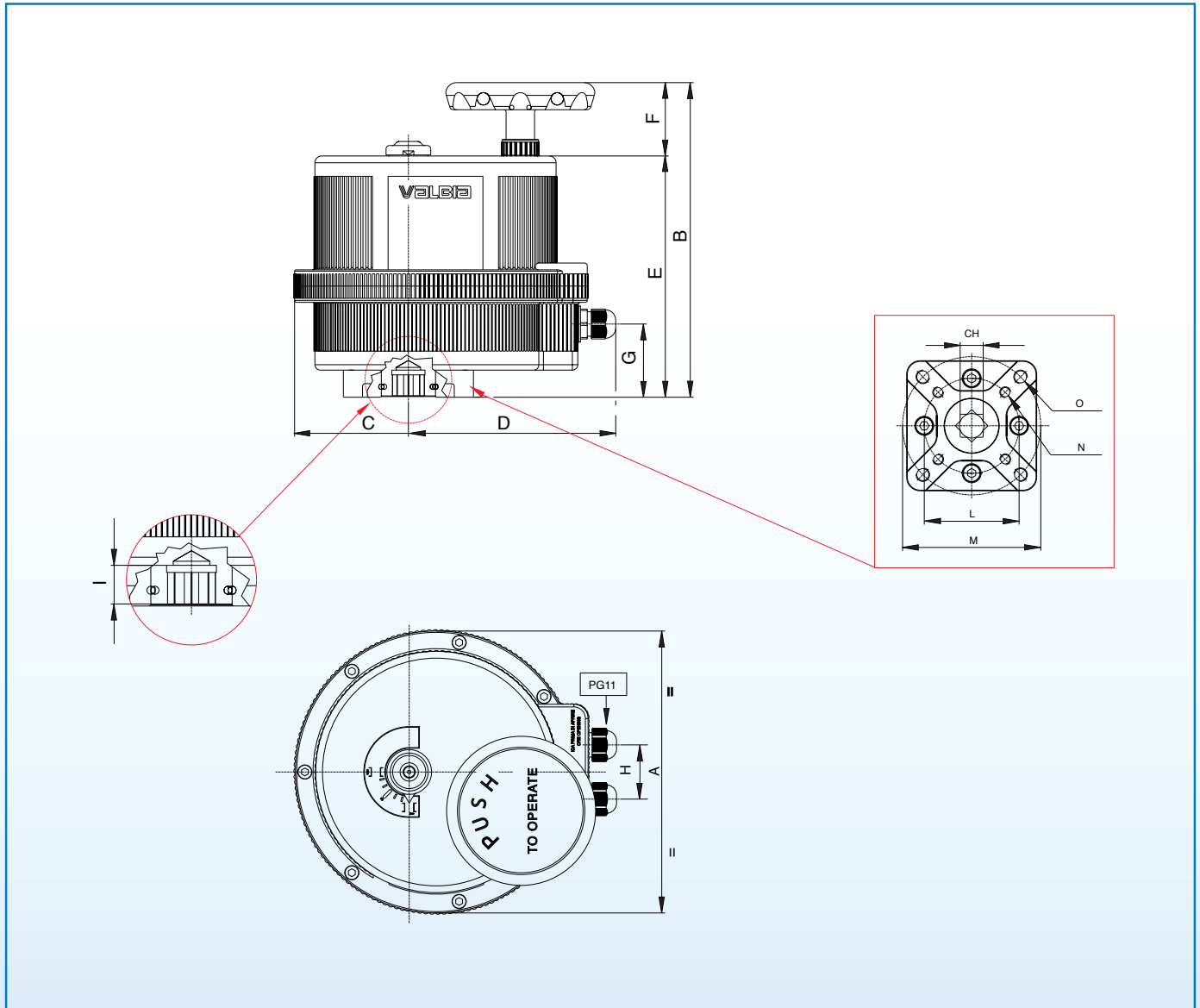
GENERAL SPECIFICATIONS

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 W0 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 into a rigid die-casted aluminium structure.
- 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 limitation.
- 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 with battery block for safety operation. The function with batteries is only enabled if the electric power supply fails for at least 5 seconds time. This system is integrated inside the actuator and therefore no external housing is required. The safety system may be set-up on request with the order and starts automatically under following conditions:
 - a) PROSECUTION OF THE ON-GOING OPERATION – the motor, once the battery system operation has been activated, goes on with its operation until the limit switch is reached.
 - b) OPENING – the actuator, under emergency condition, does always di “OPEN” operation.
 - c) CLOSING – the actuator, under emergency condition, does always di “CLOSE” operation.

MODEL		VB015	VB030	VB060	VB110	VB190	VB270	VB350	
MAX WORKING TORQUE (Lbf.in)		133	266	530	975	1680	2390	3100	
1	TENSION (V)	LOW TENSION	24V AD/DC	24V AD/DC	24V AD/DC	24V AD/DC	24V AD/DC	24V AD/DC	24V AD/DC
		HIGHT TENSION MULTITENSION	110V AC 220V AC NO	100-240V AC	100-240V AC	100-240V AC	100-240V AC	100-240V AC	100-240V AC
2	WORKING TIME (sec)	24V 10s 110/220V 25s	8	9	27	27	35	35	
3	LIMITER TORQUE	STD	STD	STD	STD	STD	STD	STD	
4	DUTY RATING %	75%	75%	75%	75%	75%	75%	75%	
5	PROTECTION	IP66	IP66	IP66	IP66	IP66	IP66	IP66	
6	ENCLOSURE NEMA TYPE 4	STD	STD	STD	STD	STD	STD	STD	
7	ROTATION (°)	90°	90°	90°	90°	90°	90°	90°	
8	UPON REQUEST ROTATION (°)	180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°	180° or 270°	
9	MANUAL INTERVENTION	STD	STD	STD	STD	STD	STD	STD	
10	POSIZIONATION INDICATOR	STD	STD	STD	STD	STD	STD	STD	
11	WORKING TEMPERATURE (°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	-4°F +131°F	
12	N°2 ADDITIONAL FREE LIMIT SWITCHES	STD	STD	STD	STD	STD	STD	STD	
13	HEATER	STD	STD	STD	STD	STD	STD	STD	
14	DRILLING ISO 521 1	F03 - F05	F03 - F05	F05 - F07	F07 - F10	F07 - F10	F07 - F10	F07 - F10	
15	SQUARE	0,43	0,43	0,55	0,67	0,67	0,67	0,67	
16	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	
17	SAFETY BLOCK	NO AVAILABLE	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	
18	OPTION WITH POSITIONER (4~20mA or 0~10 VDC)	NO AVAILABLE	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	UPON REQUEST	
19	CONNECTIONS (CABLE GLAND)	PG11	PG11	PG11	PG11	PG11	PG11	PG11	

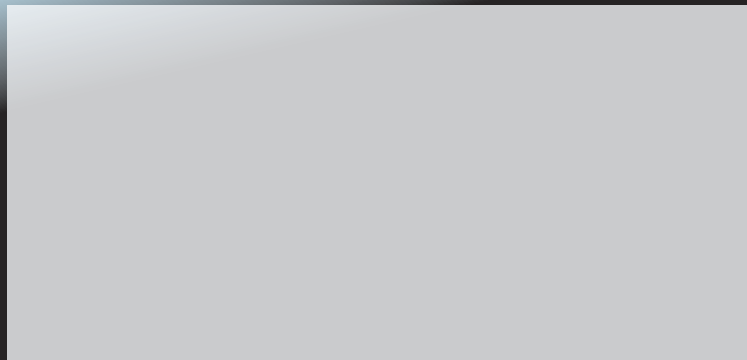


MOD.	DRILLING ISO 5211	CH	A	B	C	D	E	F	G	H	I	L	M	N	O
VB015	F03-F05	0,43	4,84	6,28	1,67	4,78	5,67	0,61	4,35	1,26	0,47	1,42	1,97	10-24 UNC 2BX0,55	1/4-20 UNC 2BX0,55
VB030	F03-F05	0,43	6,18	7,39	2,38	5,01	5,75	1,64	1,30	1,42	0,47	1,42	1,97	10-24 UNC 2BX0,55	1/4-20 UNC 2BX0,55
VB060	F05-F07	0,55	7,28	8,46	2,66	5,77	6,81	1,65	2,01	1,42	0,63	1,97	2,76	1/4-20 UNC 2BX0,67	5/16-18 UNC 2BX0,67
VB110	F07-F10	0,67	8,19	9,14	3,31	6,02	7,01	2,13	2,13	1,57	0,75	2,76	4,02	5/16-18 UNC 2BX0,79	3/8-16 UNC 2BX0,79
VB190	F07-F10	0,67	8,19	9,14	3,31	6,02	7,01	2,13	2,13	1,57	0,75	2,76	4,02	5/16-18 UNC 2BX0,79	3/8-16 UNC 2BX0,79
VB270	F07-F10	0,67	8,58	9,19	3,03	6,69	7,16	2,02	2,13	1,57	0,75	2,76	4,02	5/16-18 UNC 2BX0,79	3/8-16 UNC 2BX0,79
VB350	F07-F10	0,67	8,58	9,19	3,03	6,69	7,16	2,02	2,13	1,57	0,75	2,76	4,02	5/16-18 UNC 2BX0,79	3/8-16 UNC 2BX0,79

VALBIA



Authorized Bonomi USA Distributor



Bonomi USA, Inc.
128 Rental Court - Rock Hill, SC 29732
www.bonomiusa.com
Phone: 803/324-9738 - Fax: 803/325-1542



www.bonomi.it

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To ensure that quality and technical standards at the highest level, the manufacturer reserves the right to alter the specifications without notice.