



JOB NAME:	CONTRACTOR:
JOB LOCATION:	APPROVAL:
ENGINEER:	CONTRACTOR P.O.:
APPROVAL:	REPRESENTATIVE:

EN500S

RUBBER-LINED DIRECT MOUNT, WAFER STYLE BUTTERFLY VALVE WITH EPDM SEATS AND STAINLESS STEEL DISC WITH VALBIA ELECTRIC ACTUATOR

SIZES 1-1/2" TO 12"

E530S - FKM SEATS

E540S - NBR SEATS

*001	12V AC/DC	*002	24V AC/DC	*003	100-240V AC
01	BATTERY BACKUP	*02*	POSITIONER	*04*	BATTERY BACKUP W POSITIONER

SPECIFICATIONS

Bonomi North America series EN500S, ductile iron wafer style, epoxy coated, ANSI class 150, resilient seat butterfly valves in sizes 1-1/2"-12", with EPDM seat are NSF/ANSI 61/372 certified. This series shall offer a dual stem design and ISO 5211/DIN 3337 direct mounting for high cycle automation capabilities. In addition, the EN500S series features a dovetail booted seat design which offers a 250 CWP maximum pressure rating and conforms to ANSI B16.1 and ANSI B16.5

The EN500S Series includes an electric actuator with a high-strength, weather-proof technopolymer housing with a heater and thermostat included. The NEMA 4, 4X housing is resistant to dusty areas, and in areas where water may be sprayed.

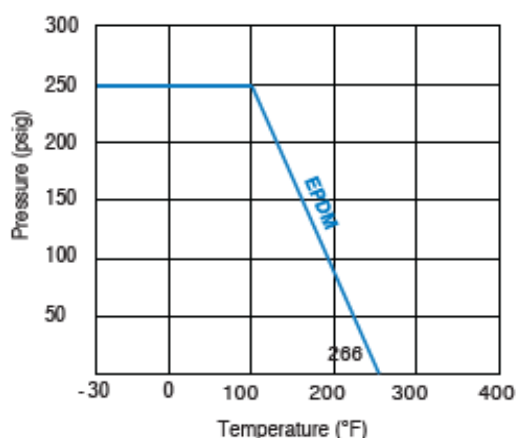
ACTUATOR FEATURES

- NEMA 4, 4X IP67 Housing
- CSA, UL approved
- Dual Voltages
- ISO 5211 dual patterns
- 75% Duty Cycle
- High-Strength, Impact Resistant IP67 Technopolymer Housing
- Temperature Range -4°F to 131°F
- PG11 Electrical Connection/Optional 1/2" Conduit

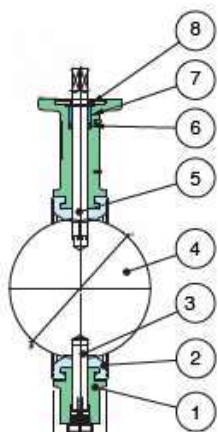
VALVE FEATURES

- ISO 5211 Direct Mount /Square Stem
- Epoxy coated Ductile Iron Wafer body
- Food Grade EPDM resilient seat (-30°F TO 266°F)
- 531S - FKM seats (10°F TO 300°F)
- 541S - NBR seats (10°F TO 250°F)
- API609 face to face flange
- Floating dual shaft disc design
- MSS SP 67 compliant
- No pins in disc prevent potential leak points
- NSF/ANSI 61, 372 approved
- ANSI class 150

PRESSURE - TEMPERATURE CHART FOR SERIES N500S

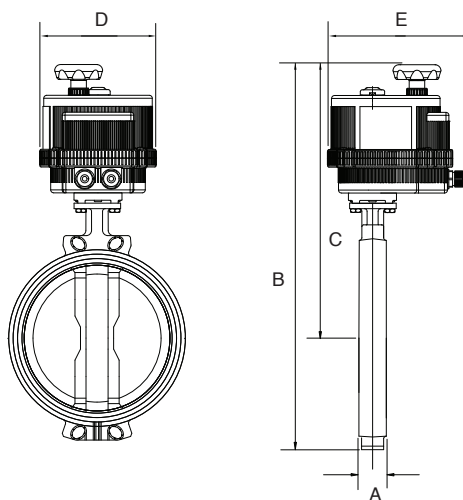


BILL OF MATERIALS FOR N500S



N POS	PART NAME	MODEL	MATERIAL	NPCS
1	BODY		DUCTILE IRON	1
2	SEAT	N501S	EPDM (-30°F TO 266°F)	1
		531S	FKM (10°F TO 300°F)	
		541S	NBR (10°F TO 250°F)	
3	LOWER SHAFT		A430F	1
4	DISC		ASTM A351 CF8M (A316)	1
5	UPPER SHAFT		A430F	1
6	O-RING		NBR	1
7	BUSHING		SINT. BRONZE	1
8	STOP RING		SPRING STEEL	1
9	LEVER		ALUMINIUM	1

DIMENSIONS

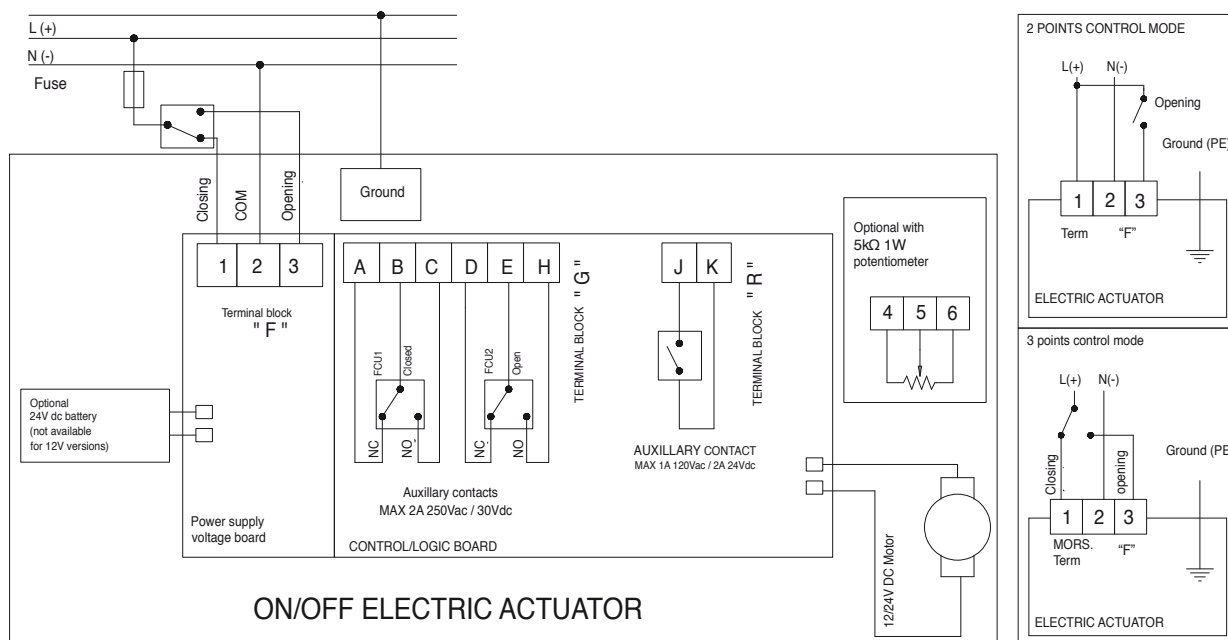


Note: EPDM Seats Std. Other Seating Material Available

Size	A	B	C	D	E	Seat Torque		Cv (GPM @ 1 psi)		ACT
						100 psi	250 psi	50% Open	100% Open	
1-1/2"	1.40	17.08	14.21	7.32	8.47	97	124	20.4	104	VB060
2"	1.81	17.67	14.52	7.32	8.47	106	133	31.8	134.9	VB060
2-1/2"	1.93	18.62	14.76	7.32	8.47	142	159	48	254.2	VB060
3"	1.93	19.56	15.31	7.32	8.47	266	354	72.6	431.5	VB060
4"	2.17	20.88	15.90	7.32	8.47	381	425	109.1	689.5	VB060
5"	2.32	22.54	17.09	8.24	9.38	460	620	173.2	1200	VB110
6"	2.36	23.76	17.72	8.24	9.38	531	797	260.7	1756.1	VB190
8"	2.56	26.55	19.19	8.67	9.78	947	1859	482.4	3105.2	VB270
10"	2.93	29.01	20.37	8.67	9.78	1549	2832	730.5	5191.8	VB350
12"	3.32	31.26	21.55	8.67	9.78	2390	3452	1054.8	8169	VB350

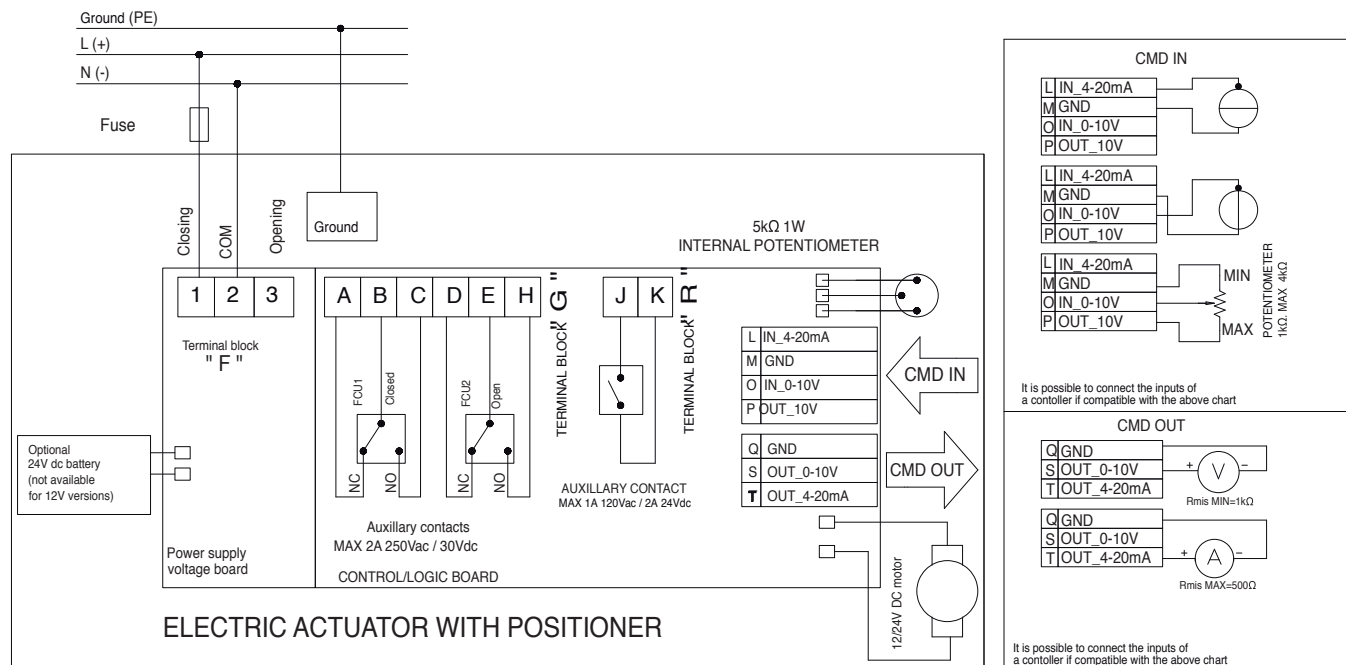
ON/OFF WIRING DIAGRAM - VB030 -VB350

12V AC/DC, 24V AC/DC & 100-240VAC



POSITIONER WIRING DIAGRAM - VB030 -VB350

12V AC/DC, 24V AC/DC & 100-240VAC



The power supply COM signal (pin "2" terminal block "F") cannot share the same electrical command ground signal (pin "GND" terminal block "CDM IN") or feedback ground signal (pin "GND" terminal block "CDM OUT").