



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

MEN501S-T*

3-WAY RUBBER LINED TANDEM BUTTERFLY VALVE ASSEMBLY WITH LINKAGE AND ACTUATION CONTROLLING FLOW WITHIN A 125# CAST IRON TREE WITH METAL VALBIA 86 SERIES ELECTRIC ACTUATOR

SIZES 2" TO 12"

E531S - VITON SEATS - E541S - BUNA SEATS

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

SPECIFICATIONS

The E501S Series 3-Way Butterfly "T" assemblies consist of Bonomi N501S Lug pattern rubber lined butterfly valves along with Valbia pneumatic and linkage assemblies.

In addition, the N501S series features a phenolic-backed cartridge seat design which offers a 250 CWP maximum pressure rating, dead-end service to 100 PSI, and conforms to ANSI B16.1 and ANSI B16.5

The MEN501S series also includes a rugged aluminum polyester powder coated metal housing NEMA 4 electric actuator, with standard features such as 2 extra limit switches, heater and thermostat, torque limiter, dual voltages, bubble type position indicator and a 75% duty cycle motor.

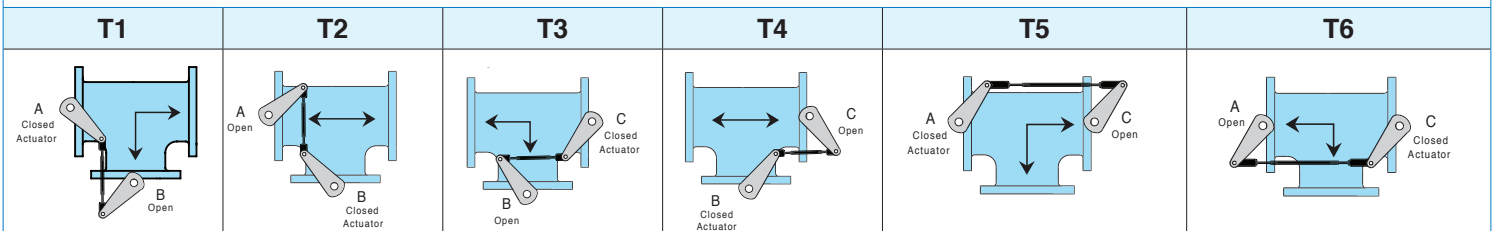
ACTUATOR FEATURES

- Dual Voltages
- 24V AC/DC and 100-240V AC
- ISO 5211 dual patterns
- 75% Duty Cycle
- High-Strength, Die Cast Aluminum Powder Coated Housing
- Temperature Range -4°F to 131°F
- NEMA 4 Housing
- Two Auxiliary Switches Standard
- Torque limiter standard
- 1/2" Conduit connections

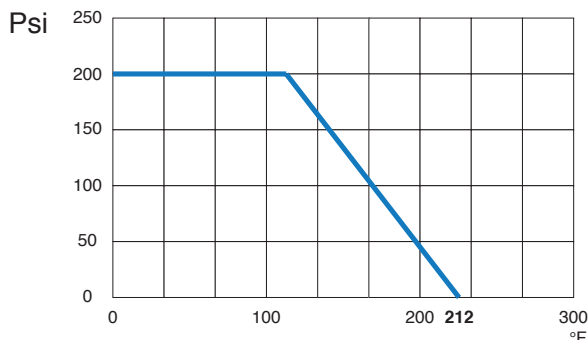
ASSEMBLY FEATURES

- Two N501S Series lug style butterfly valves with EPDM liner and stainless steel disc
- 125# cast iron Tee
- Optional butterfly liners, Buna-N (N541S) or Viton (N531S)
- Custom designed linkage
- Fully assembled and tested
- Six separate arrangement options and NACE MR 0103

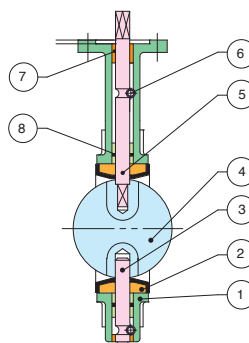
TEE FLOW ARRANGEMENTS



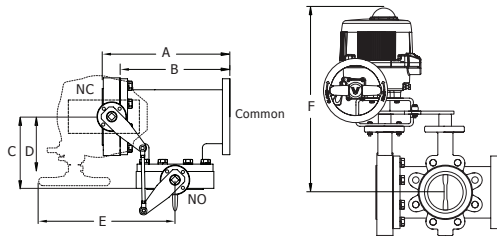
PRESSURE - TEMPERATURE CHART FOR SERIES N501S



BILL OF MATERIALS FOR N501S

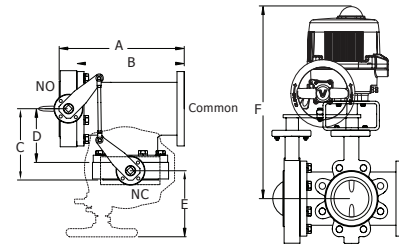


N POS	PART NAME	MATERIAL	N PCS
1	BODY	CAST IRON	1
2	SEAT	EPDM (-30°F TO 250°F)	1
3	LOWER SHAFT	SS416	1
4	DISC 501S	STAINLESS STEEL	1
5	UPPER SHAFT	SS416	1
6	LOCATING PIN	CARBON STEEL	1
7	BUSHING	P.T.F.E.	1
8	O-RING	EPDM	1
9	LEVER	EPOXY-COATED CARBON STEEL	1



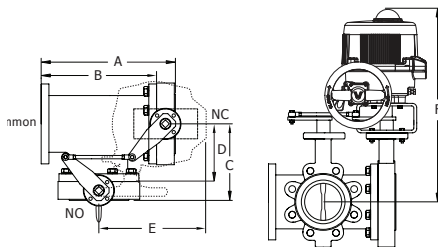
MEN501S-T1

Size	A	B	C	D	E	F	ACT.
2"	10.65	9.00	6.15	4.50	7.81	17.17	VB030M
2-1/2"	11.76	10.00	6.76	5.00	8.36	18.55	VB060M
3"	12.78	11.00	7.28	5.50	8.87	18.78	VB060M
4"	15.05	13.00	8.55	6.50	14.01	20.55	VB110M
5"	17.14	15.00	9.64	7.50	15.06	21.06	VB190M
6"	18.20	16.00	10.20	8.00	15.59	21.57	VB190M
8"	20.34	18.00	11.34	9.00	17.41	26.21	VB350M
10"	24.58	22.00	13.58	11.00	19.53	28.99	EA450
12"	27.03	24.00	15.03	12.00	20.74	30.76	EA450



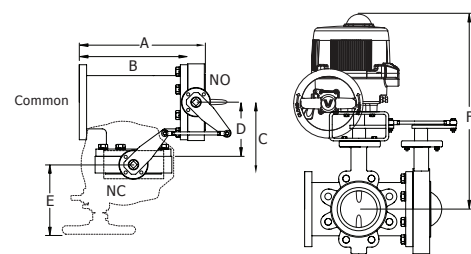
MEN501S-T2

Size	A	B	C	D	E	F	ACT.
2"	10.65	9.00	6.15	4.50	3.17	17.17	VB030M
2-1/2"	11.76	10.00	6.76	5.00	3.46	18.55	VB060M
3"	12.78	11.00	7.28	5.50	3.46	18.78	VB060M
4"	15.05	13.00	8.55	6.50	3.38	20.55	VB110M
5"	17.14	15.00	9.64	7.50	3.28	21.06	VB190M
6"	18.20	16.00	10.20	8.00	3.28	21.57	VB190M
8"	20.34	18.00	11.34	9.00	3.27	26.21	VB350M
10"	24.58	22.00	13.58	11.00	5.40	28.99	EA450
12"	27.03	24.00	15.03	12.00	5.40	30.76	EA450



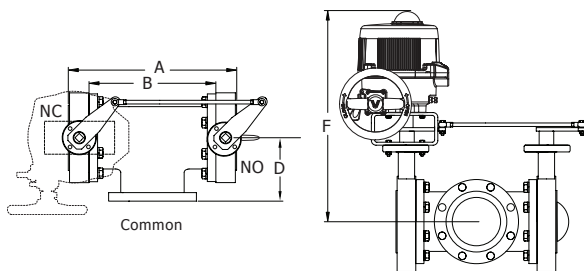
MEN501S-T3

Size	A	B	C	D	E	F	ACT.
2"	10.65	9.00	6.15	4.50	10.21	17.17	VB030M
2-1/2"	11.76	10.00	6.76	5.00	11.15	18.55	VB060M
3"	12.78	11.00	7.28	5.50	11.66	18.78	VB060M
4"	15.05	13.00	8.55	6.50	11.49	20.55	VB110M
5"	17.14	15.00	9.64	7.50	12.54	21.06	VB190M
6"	18.20	16.00	10.20	8.00	13.07	21.57	VB190M
8"	20.34	18.00	11.34	9.00	13.91	26.21	VB350M
10"	24.58	22.00	13.58	11.00	16.99	28.99	EA450
12"	27.03	24.00	15.03	12.00	18.20	30.76	EA450



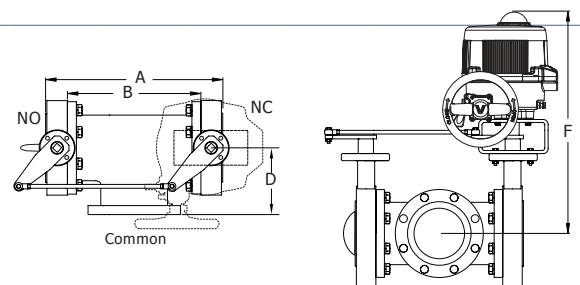
MEN501S-T4

Size	A	B	C	D	E	F	ACT.
2"	10.65	9.00	6.15	4.50	3.17	17.17	VB030M
2-1/2"	11.76	10.00	6.76	5.00	3.46	18.55	VB060M
3"	12.78	11.00	7.28	5.50	3.46	18.78	VB060M
4"	15.05	13.00	8.55	6.50	3.38	20.55	VB110M
5"	17.14	15.00	9.64	7.50	3.28	21.06	VB190M
6"	18.20	16.00	10.20	8.00	3.28	21.57	VB190M
8"	20.34	18.00	11.34	9.00	3.27	26.21	VB350M
10"	24.58	22.00	13.58	11.00	5.40	28.99	EA450
12"	27.03	24.00	15.03	12.00	5.40	30.76	EA450



MEN501S-T5

Size	A	B	D	F	ACT.
2"	10.65	9.00	4.50	17.17	VB030M
2-1/2"	11.76	10.00	5.00	18.55	VB060M
3"	12.78	11.00	5.50	18.78	VB060M
4"	15.05	13.00	6.50	20.55	VB110M
5"	17.14	15.00	7.50	21.06	VB190M
6"	18.20	16.00	8.00	21.57	VB190M
8"	20.34	18.00	9.00	26.21	VB350M
10"	24.58	22.00	11.00	28.99	EA450
12"	27.03	24.00	12.00	30.76	EA450

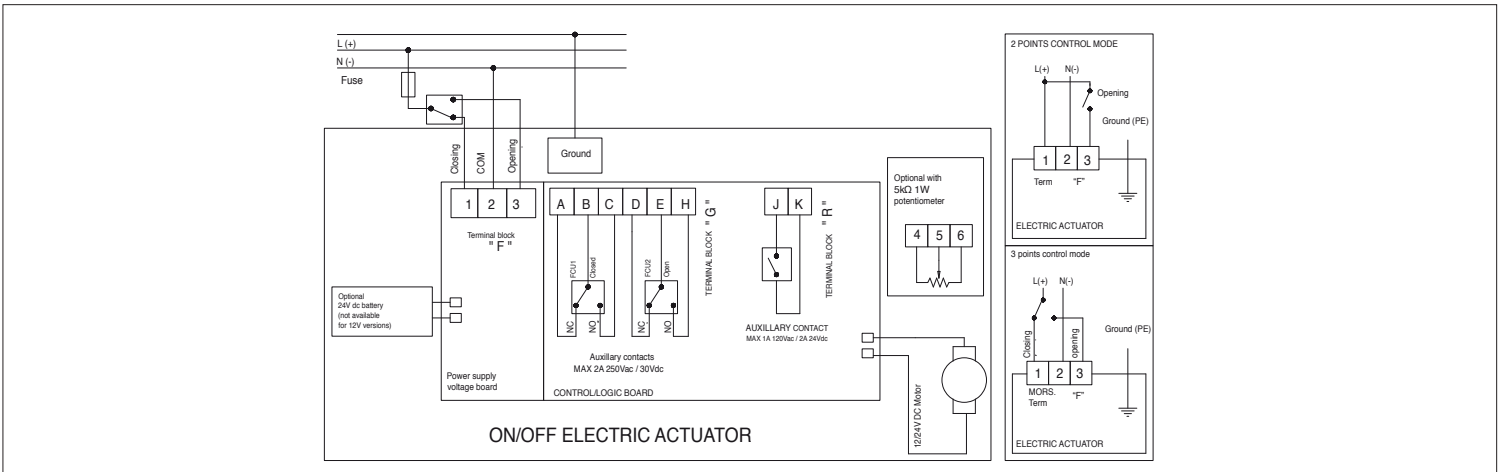


MEN501S-T6

Size	A	B	D	F	ACT.
2"	10.65	9.00	4.50	17.17	VB030M
2-1/2"	11.76	10.00	5.00	18.55	VB060M
3"	12.78	11.00	5.50	18.78	VB060M
4"	15.05	13.00	6.50	20.55	VB110M
5"	17.14	15.00	7.50	21.06	VB190M
6"	18.20	16.00	8.00	21.57	VB190M
8"	20.34	18.00	9.00	26.21	VB350M
10"	24.58	22.00	11.00	28.99	EA450
12"	27.03	24.00	12.00	30.76	EA450

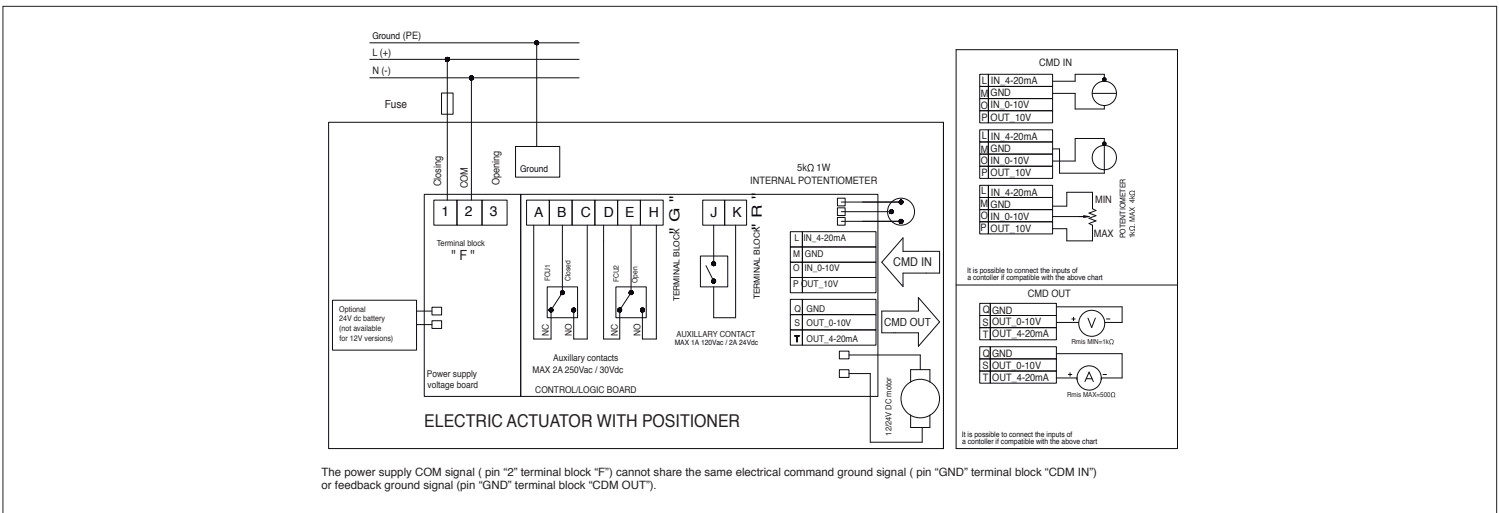
ON/OFF WIRING DIAGRAM

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



POSITIONER WIRING DIAGRAM

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



3-POSITION WIRING DIAGRAM - 3-WAY VALVES ONLY

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

