

BONOMI**500 Series Manual, Electric & Pneumatic Butterfly Valves***Direct Mount Cartridge-Style ANSI 150 Butterfly Valves, 1.5" to 12" Pipe Sizes*

SERIES 500 Cast Iron Wafer Body

SERIES 501 Ductile Iron Lug

Standard Models

500N - Nylon-11 Coated Disc, Wafer Body

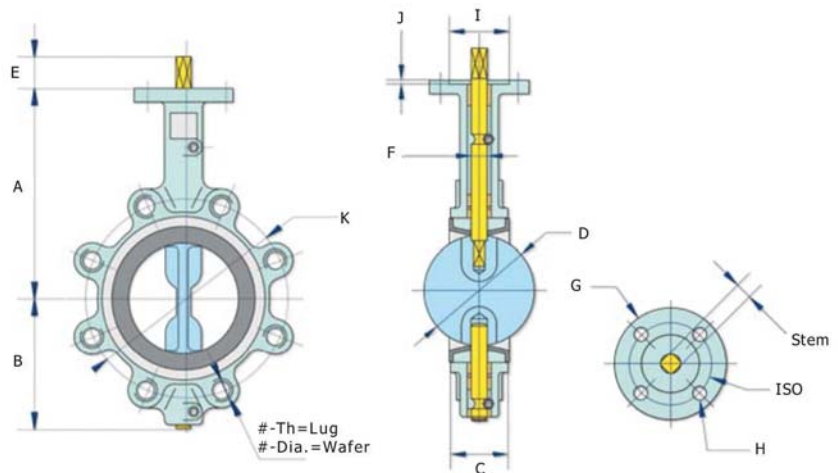
500S - CF8M S.S. Disc, Wafer Body

501N - Nylon-11 Coated Disc, Lug Body

501S - CF8M S.S. Disc, Lug Body

Standard Features

- ISO 5211/DIN 3337 Direct Mounting Flange
- Conforms to API598, API609, and MSS SP-67
- Conforms to ASTM/ANSI B16.1 and B16.5
- Phenolic-Backed Cartridge Seats-No Gaskets Necessary

**Table 1**

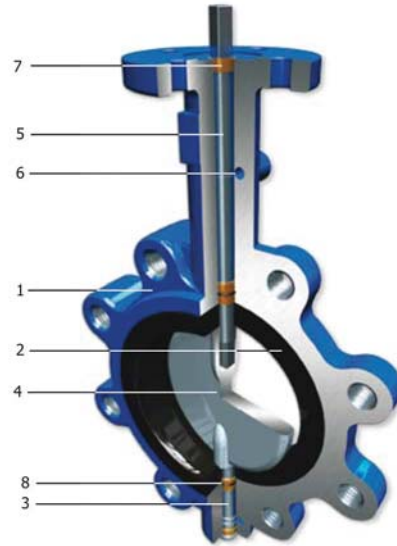
Size (Inch)	ISO 211	Stem (mm)	A	B	C	D	E	F	Upper Flange				ANSI Wafer #-Dia.	Wt. (lbs)	Lug #-Thd (lbs)	Wt. (lbs)	Seat Torque		Cv (gpm@1psi)		
									G	H	I	J					100 psi	200 psi	50% OP	100% OP	
*1.5	F05	9	5.71	2.97	1.61	1.67	0.47	0.50	3.03	4-0.28	1.38	0.12	3.88	4-0.75	4.8	4-5/8"-11	7.1	101	105	35	108
2	F05	9	6.34	3.15	1.65	2.07	0.47	0.50	3.03	4-0.27	1.38	0.12	4.74	4-0.75	5.5	4-5/8"-11	8.4	107	115	45	135
2.5	F05	9	6.89	3.50	1.76	2.54	0.47	0.50	3.03	4-0.27	1.38	0.12	5.49	4-0.75	7.1	4-5/8"-11	9.3	234	167	65	220
3	F05	9	7.13	3.74	1.78	3.10	0.47	0.50	3.03	4-0.27	1.38	0.12	6.00	4-0.75	8.4	4-5/8"-11	10.4	205	223	70	300
4	F07	11	7.87	4.49	2.05	4.09	0.63	0.62	3.54	4-0.35	2.17	0.12	7.50	4-0.75	10.8	8-5/8"-11	19.8	339	385	140	605
5	F07	14	8.34	5.00	2.14	4.85	0.75	0.75	3.54	4-0.35	2.17	0.12	8.50	4-0.87	15.4	8-3/4"-10	24.0	523	602	235	1010
6	F07	14	8.90	5.47	2.20	6.13	0.75	0.75	3.54	4-0.35	2.17	0.12	9.50	4-0.87	17.2	8-3/4"-10	31.3	677	871	360	1620
8	F10	17	10.24	6.89	2.34	7.97	0.75	0.87	4.92	4-0.47	2.76	0.14	11.75	4-0.87	29.1	8-3/4"-10	40.1	1205	1450	715	3205
10	F10	22	11.50	7.99	2.58	9.86	0.95	1.12	4.92	4-0.47	2.76	0.14	14.25	4-1.00	42.2	12-7/8"-9	59.1	1890	2200	1225	5305
12	F10	22	13.27	9.53	3.03	11.87	0.95	1.24	5.51	4-0.47	2.76	0.14	17.00	4-1.00	71.5	12-7/8"-9	88.2	2808	3350	1900	8250

*1-1/2" available only in model 500S

Note:

1. Maximum Working Pressure is 200psi
2. Seating Torque Tested at 70°F Water-No Safety Factors
3. Series 501 Maximum Dead Head Service is 100psi
4. All Dimensions are Inches Unless Specified
5. All Threads UNC

Table 2 Standard Materials			
Part	Description		Material
1	Body	Lug	Epoxy Coated Ductile Iron
		Wafer	Epoxy Coated Cast Iron
2	Seat		EPDM (-30°F to 360°F)
3	Lower Shaft		416 Stainless Steel
4	Disc	500N/501N	Ductile Iron & Nylon 11
		500S/501S	CF8M
5	Upper Shaft		416 Stainless Steel
6	Locating Pin		Carbon Steel
7	Bushing		PTFE
8	O-Ring		EPDM
Optional Seat Materials			
Food Grade EPDM (-30° to 225°F)			520 Wafer
			521 Lug
VITON (+10° to 400°F)			530 Wafer
			531 Lug
Buna-N (+10° to 180°F)			540 Wafer
			541 Lug



SERIES 500 and SERIES 501 Manually Operated Butterfly Valves

Standard Models

LEVER
L500N
L500S
L501N
L501S

Standard Features

- LEVER
- GEAR
- Light Weight
- 10 Position Stop
- All Sizes
- GEAR
- Direct Mount ISO 5211
- Low Turn Ratio
- IP54 Enclosure

Table 3

Seal Material & Temp Range	Style	Wafer Body		Lug Body	
		Nyl-11	CF8M	Nyl-11	CF8M
EPDM (-30 to 250°F)	Lever	L500N	L500S	L501N	L501S
	Gear	G500N	G500S	G501N	G501S
FG EPDM (-30 to 225°F)	Lever	L520N	L520S	L521N	L521S
	Gear	G520N	G520S	G521N	G521S
Viton (+10 to 400°F)	Lever	L530N	L530S	L531N	L531S
	Gear	G530N	G530S	G531N	G531S
Buna-N (+10 to 180°F)	Lever	L540N	L540S	L541N	L541S
	Gear	G540N	G540S	G541N	G541S



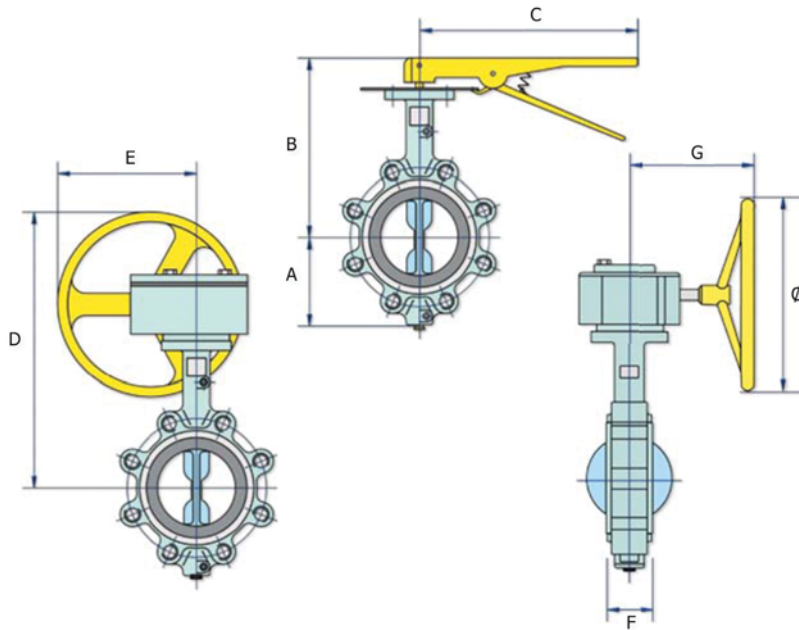


Table 4

Size	A	B	C	D	E	F	G	Manual Operator		Wafer- Weight w/operator		Lug- Weight w/operator		ØH	Cv (gpm@1psi)	
								Lever	Gear	Lever	Gear	Level	Gear		50% OP	100% OP
1.5"	2.97	7.24	10.63	10.15	4.75	1.61	6.00	50L-1	50G-1	6.8	16.3	9.6	19.1	5.91	34	104
2"	3.14	7.60	10.63	10.78	4.75	1.65	6.00	50L-1	50G-1	7.5	17.0	10.4	19.9	5.91	45	135
2.5"	3.50	8.15	10.63	11.33	4.75	1.75	6.00	50L-1	50G-1	9.1	18.6	11.3	20.8	5.91	65	220
3"	3.74	8.38	10.63	11.57	4.75	1.77	6.00	50L-1	50G-1	10.4	19.9	12.4	21.9	5.91	70	300
4"	4.48	9.13	10.63	12.31	4.75	2.05	6.00	50L-1	50G-1	12.8	22.3	21.8	31.3	5.91	140	605
5"	4.99	9.60	10.63	12.78	4.75	2.14	6.00	50L-1	50G-1	17.4	26.9	26.0	35.5	5.91	235	1010
6"	5.47	10.16	10.63	13.34	4.75	2.19	6.00	50L-1	50G-1	19.2	28.7	33.3	42.8	5.91	360	1620
8"	6.88	12.01	14.17	17.84	8.35	2.38	9.84	50L-2	50G-2	33.4	57.8	44.4	68.8	11.81	715	3205
10"	7.99	13.27	19.68	19.04	8.35	2.58	9.84	50L-3	50G-2	48.1	70.9	64.9	87.8	11.81	1225	5305
12"	9.52	15.04	19.68	20.81	9.06	3.02	9.84	50L-3	50G-3	77.3	104.6	94.0	121.3	11.81	1900	8250

Note: 1. The Maximum Working Pressure is 200psi 2. Series 501 Dead-End Service is 100psi maximum 3. All Dimensions are Inches Unless Specified

ELECTRIC VALVE ACTUATORS

Series VB actuators are designed for the automation of ball and butterfly valves for the industrial, commercial and OEM markets. A result of years of intensive R & D, advanced high-tech electrical components design and precise gearing, VB electric actuators offer the best in performance and long term reliability.

The actuator housing is made from a V-O rated, self-extinguishing class techno-polymer material. The gear drive is made of two steel and techno-polymer gear wheels, sustained by hardened steel pinions, mounted on self-lubricating bushings (excluding model VB015), and inserted in a rugged die-cast aluminum structure.

The direct connection of the actuators to the valves is made via a painted die-cast aluminum plate with a dual drilled ISO 5211 interface. All actuators are provided with an electronic system and torque limiter. A heater is built-in and is activated once the actuator is powered and when the temperature inside the housing drops below 77°F to prevent condensation.

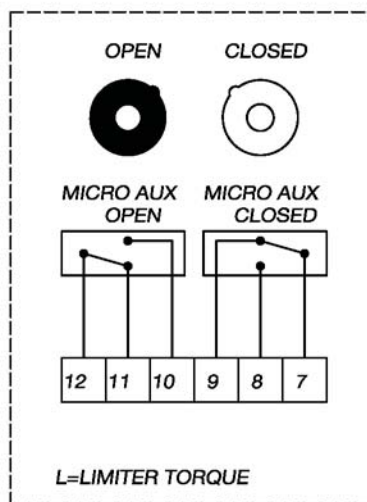
Two auxiliary limit switches are standard and optional 4-20 mA/0-10V modulating boards and battery backup protection are available.



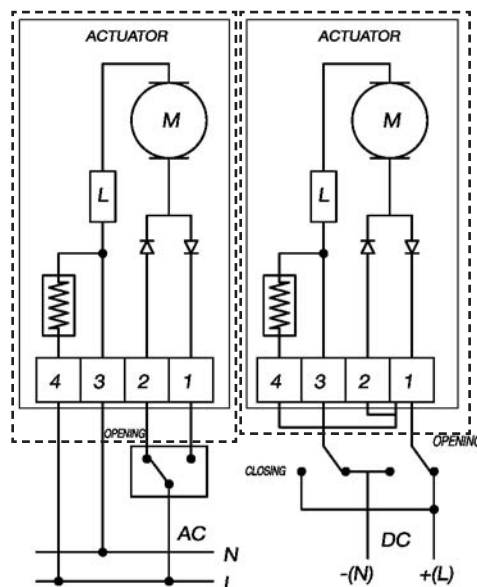
Table 5 Model	VB015	VB030	VB060	VB110	VB190	VB270	VB350
Max Working Torque (in-lbs)	133	266	530	975	1680	2390	3100
Working Time (sec)	10	8	9	27	27	50	50
Operating Temperature	-4 to 131°F						
Torque Limiter	STD	STD	STD	STD	STD	STD	STD
Duty Rating	50%	75%	75%	75%	75%	75%	75%
Protection	NEMA 4 X IP65	NEMA 4 X IP65-67	NEMA 4 X IP65-67	NEMA 4 X IP65-67	NEMA 4 X IP65-67	NEMA 4 X IP65-67	NEMA 4 X IP65-67
Rotation	90°	90°	90°	90°	90°	90°	90°
Optional Rotation	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
Heater	STD	STD	STD	STD	STD	STD	STD
Additional Limit Switches	2 supplied, VMax 250 VAC, 30 VDC, imax 1A						
Positioner PCB 4-20 mA & 0-10 V	Not Available	Available Option (except 12V models)	Available Option (except 12V models)	Available Option (except 12V models)	Available Option (except 12V models)	Available Option (except 12V models)	Available Option (except 12V models)
Linear Potentiometer 5K Ohms, 1 Watt	Not Available	Available Option	Available Option	Available Option	Available Option	Available Option	Available Option
Enclosure Electrical Conn.	2 x PG11 Cable Gland	2 x PG11 Cable Gland	2 x PG11 Cable Gland	2 x PG11 Cable Gland	2 x PG11 Cable Gland	2 x PG11 Cable Gland	2 x PG11 Cable Gland
Version H Nominal Voltage	110VAC or 230 VAC	100-240 VAC					
Version H Current Consumption	110 VAC- 75mA 230 VAC-25mA	0.3-0.2A	0.6-0.3A				
Version H Power Consumption	110 VAC- 6.6 VA 230 VAC-6.0 VA	30-48 VA	60-72 VA				
Version L Nominal Voltage	12V or 24V AC/DC	12 VDC or 24V AC/DC	12 VDC or 24V AC/DC	12 VDC or 24V AC/DC	12 VDC or 24V AC/DC	12 VDC or 24V AC/DC	12 VDC or 24V AC/DC
Version L Current Consumption	12V- 1.2A 24V- 0.6A	12V- 2.0A 24V- 1.0A	12V- 3.6A 24V- 1.8A	12V- 2.0A 24V- 1.0A	12V- 3.6A 24V- 1.8A	12V- 3.6A 24V- 1.8A	12V- 3.6A 24V- 1.8A
Version L Power Consumption	15 VA	24 VA	44 VA	24 VA	44 VA	44 VA	44 VA
Frequency	50/60 Hz						
Weight	3.09	5.07	7.28	10.80	10.80	13.23	13.23

WIRING

VB015 12-24V AC/DC



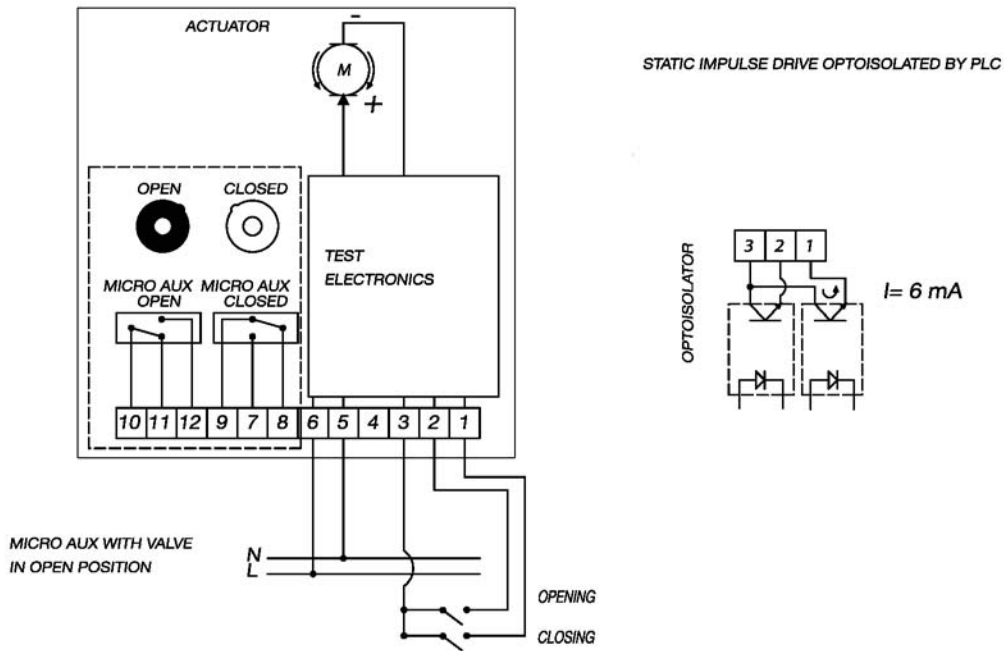
MICRO AUX WITH VALVE
IN OPEN POSITION



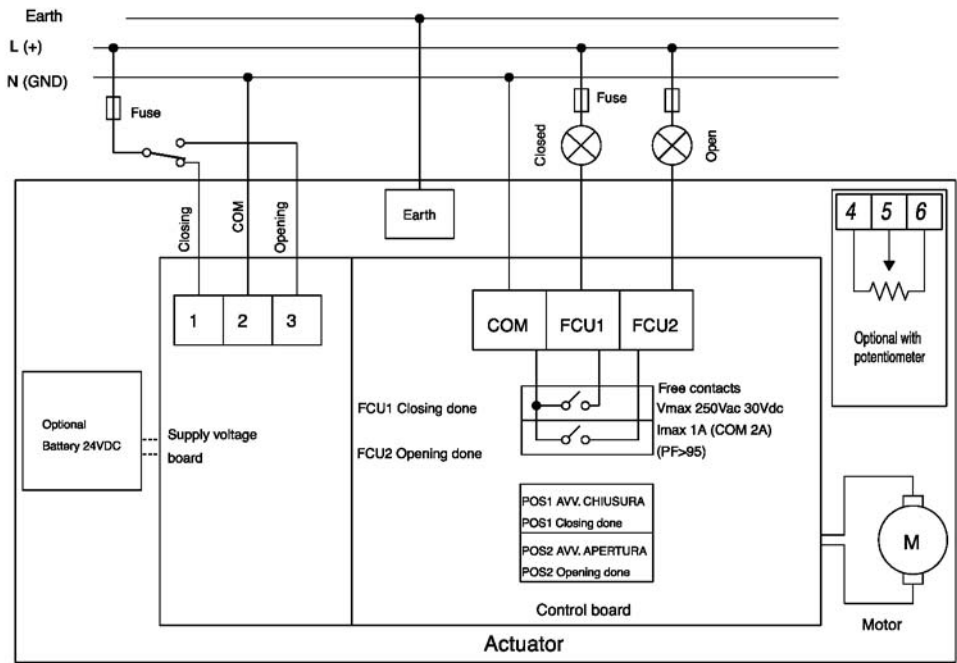
DC Power

To open: Line to 2
Neutral to 3
To Close: Line to 3
Neutral to 1

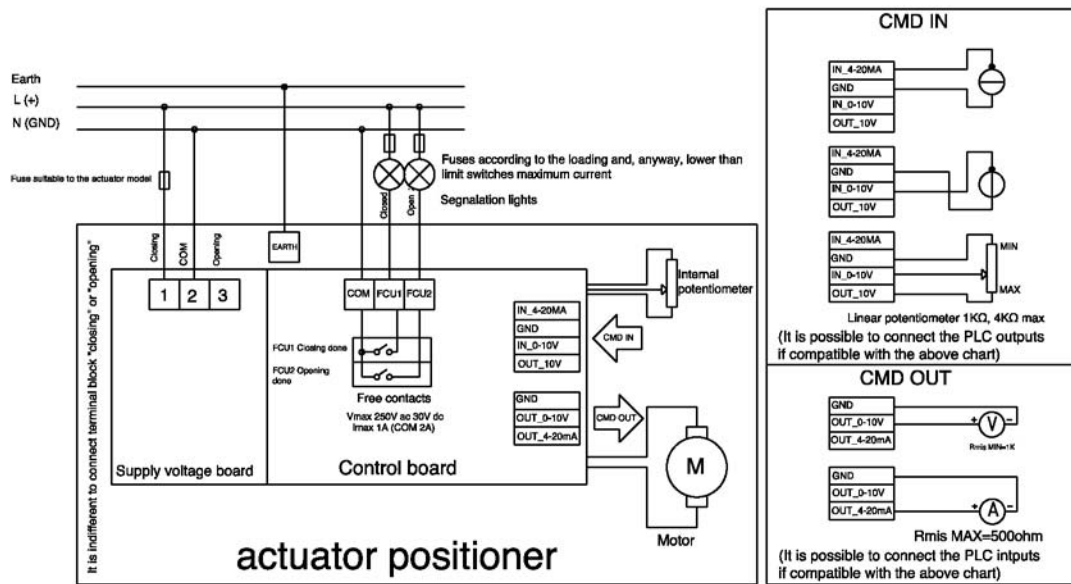
VB015 115V-230V AC



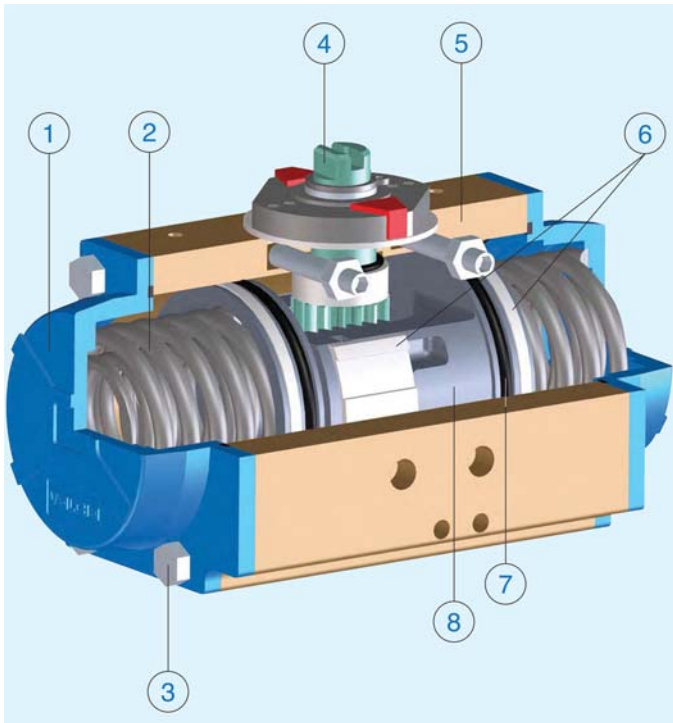
VB30 TO VB350 12 V DC, 24V AC/DC, 110-240 VAC



4-20 M/O-10V ACTUATOR POSITIONER WIRING VB30 TO VB350 12 V DC, 24V AC/DC, 110-240 VAC



PNEUMATIC VALVE ACTUATORS



GENERAL SPECIFICATIONS

Types:

- DA- Double Acting
- SR- Spring Return

Actuation Pressure Rating: Minimum 80 PSI, maximum 115 PSI

Temperature Range:

- Standard (NBR Seals): -4°F to +185°F
- High Temp Option (Viton Seals): -4°F to +302°F
- Low Temperature Option (Silicon Seals): -40°F to +185°F

Rotation: 0-90° adjustable $\pm 5^\circ$ in both clockwise and counterclockwise directions by means of adjusting screws outside the internal supply chambers

Position Indicator: Standard

Air Supply Connections:

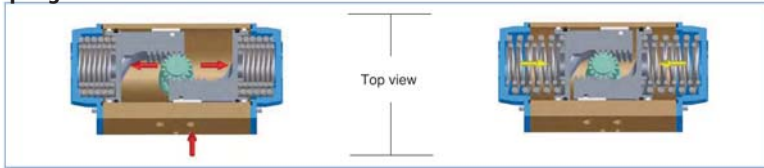
- Models 32, 52, 63, 75, 85- 1/8" NPT;
- Model 100- 1/4" NPT

Lubrication: Pre lubricated for life of actuator on assembly

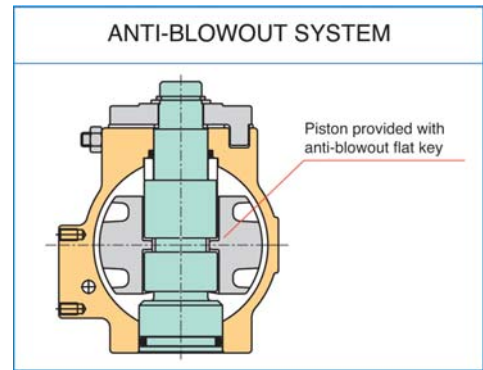
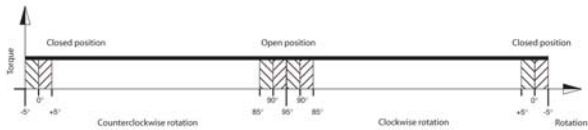
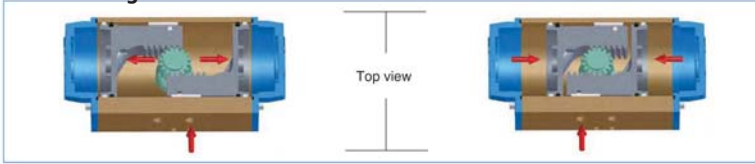
Table 6	Description
1	Die Cast Aluminum End Caps -Standard polyester powder coated
2	Concentric Spring Sets -Standard treatment phosphated- -High resistance and reliability - Long securing screws to allow safe dismantling for maintenance -Same body dimensions for DA/SR versions
3	Assembling Screw -Stainless Steel
4	Steel Pinion - Standard version nickel plated - Stainless steel for corrosive environments -Anti-blow out design
5	Extruded Aluminum Body UNI 6060 -Hard-coat anodized finish 40-50 (microns) -Nickel or epoxy coating optional -Good Wear & high corrosion resistance - Bore finish to high standard to ensure low friction
6	POM Piston Guides - Large contact area -Low friction material with long life
7	Seals - NBR: Standard -Viton: High temp. version -Silicon: Low temp. version
8	Pistons - Die Cast Aluminum (nickel plating available)

ACTUATOR OPERATION

Spring Return Actuator



Double Acting Actuator



The torque of a double acting actuator remains constant throughout the complete actuation while the torque of the spring return actuator is not constant but decreasing. Series 8P valve assemblies have actuators selected by the factory to meet the valve torque requirements. This assumes the actuation supply pressure is a minimum of 80 PSI.

Table 7	Model	32	52	63	75	85	100
Working Time (sec)							
Direct Acting Counterclockwise Rotation		0.03	0.03	0.06	0.12	0.20	0.30
Direct Acting Clockwise Rotation		0.03	0.04	0.08	0.12	0.19	0.27
Spring Return Counterclockwise Rotation		-	0.09	0.14	0.22	0.31	0.44
Spring Return Clockwise Rotation		-	0.09	0.14	0.22	0.33	0.46
Actuator Air Consumption (cubic inches per stroke)							
Direct Acting Counterclockwise Rotation		2.44	6.10	11.60	21.97	31.12	48.21
Direct Acting Clockwise Rotation		1.83	7.93	14.04	26.85	39.06	61.02
Spring Return Clockwise Rotation		-	6.71	11.60	21.97	32.34	48.82
Weight (lbs)							
Direct Acting		1.08	2.25	3.26	5.51	7.39	11.02
Spring Return		-	2.62	3.97	6.94	9.37	14.40

ACTUATOR PARTS

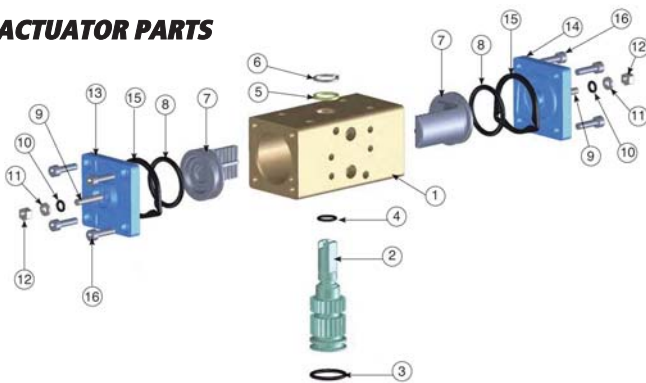
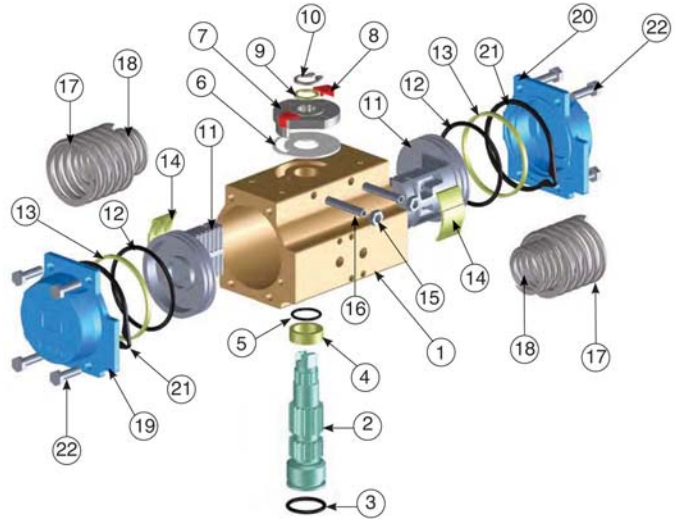


Table 8 Model 32 Actuator Parts				
	Part Name	Material	Treatment	QTY
1	Body	Extruded Aluminum	Hard Anodized	1
2	Anti-blowout pinion	Steel	Nickle plated	1
*3	Lower pinion o-ring	NBR		1
*4	Top pinion o-ring	NBR		1
*5	Spacer ring	POM		1
6	Pinion snap ring	Steel	Nickle plated	1
7	Piston	Die Cast Aluminum		2
*8	Piston o-ring	NBR		2
9	Stop bolt	Stainless steel		2
*10	Stop bolt o-ring	NBR		2
11	Washer	Stainless steel		2
12	Stop bolt retaining nut	Stainless steel		2
13	Left end cap	Die Cast Aluminum	Painted	1
14	Right end cap	Die Cast Aluminum	Painted	1
15	End cap seats	NBR		2
16	End fixing screw	Stainless steel		8

* Parts subject to wear

Table 9 Model 52-100 Actuator Parts (fig. 13)					
	Part Name	Material	Treatment	QTY DA	QTY SR
1	Body	Extruded Aluminum	Hard Anodized	1	1
2	Anti-blowout pinion	Steel	Nickle plated	1	1
*3	Lower pinion o-ring	NBR		1	1
*4	Pinion spacer ring	POM		1	1
*5	Top pinion o-ring	NBR		1	1
*6	Cam spacer ring	POM		1	1
7	Cam	Stainless steel		1	1
8	Position Indicator	Nylon		2	2
9	Pinion washer	Stainless steel		1	1
10	Pinion snap ring	Reinforced steel UNI 7436	Nickle plated	1	1
11	Piston	Die Cast Aluminum		2	2
*12	Piston o-ring	NBR		2	2
*13	Anti-friction ring	POM		2	2
*14	Piston thrust block	POM		2	2
15	Stop bolt retaining nut	Stainless steel		2	2
16	Stop bolt	Stainless steel		2	2
17	External spring	Steel	Zinc-phosphate	0	**
18	Internal spring	Steel	Zinc-phosphate	0	**
19	Left end cap	Die Cast Aluminum	Painted	1	1
20	Right end cap	Die Cast Aluminum	Painted	1	1
21	End cap seats	NBR		2	2
22	End cap fixing screw	Stainless steel		8	8
* Parts subject to wear **Factory fixed dependent on model					



SERIES E500 Electrically Operated Butterfly Valves

E500S- Direct Mount, Wafer Body, EPDM Seats, Stainless Steel Disc Butterfly Valve With Electric Actuator

E500N- Direct Mount, Wafer Body, EPDM Seats, Nylon Coated Ductile Iron Disc Butterfly Valve With Electric Actuator

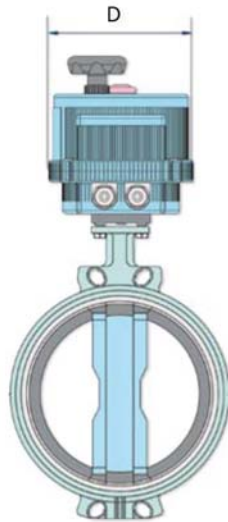


Table 12 Voltage Supply Order Suffix		
001=std. 12v AC/DC	011= 12v AC/DC Battery Back-Up/Fail safe	021= 12v AC/DC Positioner
002=std. 24v AC/DC	012= 24v AC/DC Battery Back-Up/Fail Safe	022= 24v AC/DC Positioner
003=std. 100-240 VAC	013= 100-240VAC Battery Back-Up/Fail Safe	023= 100-240 VAC Positioner

Table 10 E500S Dimensions (Inches)										
	1 1/2"	2	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	1.61	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	16.08	16.89	17.79	18.27	20.82	21.80	23.51	26.27	28.68	*
C	13.11	13.40	14.29	14.53	16.33	16.80	18.04	19.38	20.69	*
D	6.18	6.18	6.18	6.18	7.28	7.28	8.31	8.31	8.74	*
E	7.50	7.50	7.50	7.50	8.43	8.43	9.33	9.33	9.72	*
ACT.	VB-030	VB30	VB30	VB30	VB060	V060	VB110	VB190	VB350	*
Wt./Lbs	9.9	10.6	12.2	13.5	18.1	22.7	28.0	39.9	55.5	*

Table 11 E500N Dimensions (Inches)										
	1 1/2"	2	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	-	16.89	17.79	18.27	20.82	21.80	23.51	26.27	28.68	*
C	-	13.40	14.29	14.53	16.33	16.80	18.04	19.38	20.69	*
D	-	6.18	6.18	6.18	7.28	7.28	8.31	8.31	8.74	*
E	-	7.50	7.50	7.50	8.43	8.43	9.33	9.33	9.72	*
ACT.	-	VB30	VB30	VB30	VB060	V060	VB110	VB190	VB350	*
Wt./Lbs	-	10.6	12.2	13.5	18.1	22.7	28.0	39.9	55.5	*

* Consult Factory

E501S-Direct Mount, Lug Body, EPDM Seats, Stainless Steel Disc Butterfly Valve With Electric Actuator

E501N- Direct Mount, Lug Body, EPDM Seats, Nylon Coated Ductile Iron Disc Butterfly Valve With Electric Actuator

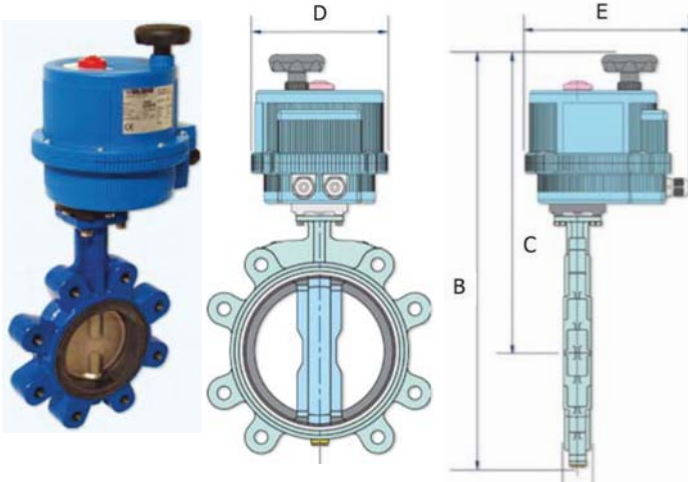


Table 13 E501S Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	-	16.89	17.79	18.27	20.82	21.80	23.51	26.27	28.68	*
C	-	13.40	14.29	14.53	16.33	16.80	18.04	19.38	20.69	*
D	-	6.18	6.18	6.18	7.28	7.28	8.31	8.31	8.74	*
E	-	7.50	7.50	7.50	8.43	8.43	9.33	9.33	9.72	*
ACT.	-	VB30	VB30	VB30	VB060	V060	VB110	VB190	VB350	*
Wt./Lbs	-	13.5	14.4	15.5	27.1	31.3	42.1	50.9	72.4	*

Table 14 E501N Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	-	16.89	17.79	18.27	20.82	21.80	23.51	26.27	28.68	*
C	-	13.40	14.29	14.53	16.33	16.80	18.04	19.38	20.69	*
D	-	6.18	6.18	6.18	7.28	7.28	8.31	8.31	8.74	*
E	-	7.50	7.50	7.50	8.43	8.43	9.33	9.33	9.72	*
ACT.	-	VB30	VB30	VB30	VB060	V060	VB110	VB190	VB350	*
Wt./Lbs	-	13.5	14.4	15.5	27.1	31.3	42.1	50.9	72.4	*

* Consult Factory

Table 15 Voltage Supply Order Suffix		
001=std. 12v AC/DC	011= 12v AC/DC Battery Back-Up/Fail safe	021= 12v AC/DC Positioner
002=std. 24v AC/DC	012= 24v AC/DC Battery Back-Up/Fail Safe	022= 24v AC/DC Positioner
003=std. 100-240 VAC	013= 100-240VAC Battery Back-Up/Fail Safe	023= 100-240 VAC Positioner

SERIES DA/SR500 Pneumatically Operated Butterfly Valves

DA500S- Direct Mount, Wafer Body, EPDM Seats, Stainless Steel Disc Butterfly Valve With Double Acting Actuator

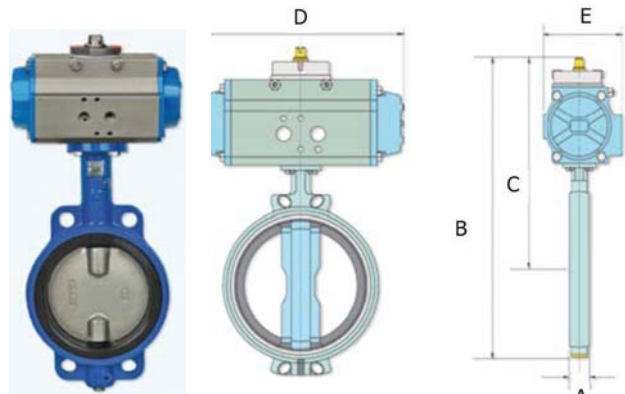
SR500S- Direct Mount, Wafer Body, EPDM Seats, Stainless Steel Disc Butterfly Valve With Spring Return Actuator

DA500N- Direct Mount, Wafer Body, EPDM Seats, Nylon Coated Ductile Iron Disc Butterfly Valve With Double Acting Actuator

SR500N- Direct Mount, Wafer Body, EPDM Seats, Nylon Coated Ductile Iron Disc Butterfly Valve With Spring Return Actuator

Table 16 DA500S Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	1.61	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	3.03
B	12.20	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	31.38
C	9.23	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	21.85
D	5.49	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	20.55
E	2.80	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	7.36
ACT.	52	52	52	63	75	75	85	100	125	140
Wt./Lbs	7.0	7.7	9.3	11.7	16.3	22.8	28.2	46.9	76.1	114.7

Table 17 SR500S Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	1.61	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	12.20	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	*
C	9.23	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	*
D	5.49	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	*
E	2.80	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	*
ACT.	75	75	75	75	100	115	125	160	200	*
Wt./Lbs	11.7	12.4	14.0	15.3	25.2	39.3	62.5	94.1	153	*



* Consult Factory

Table 18 DA500N Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	3.03
B	-	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	31.38
C	-	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	21.85
D	-	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	20.55
E	-	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	7.36
ACT.	-	52	52	63	75	75	85	100	125	140
Wt./Lbs	-	7.7	9.3	11.7	16.3	22.8	28.2	46.9	76.1	114.7

Table 19 SR500N Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	-	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	*
C	-	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	*
D	-	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	*
E	-	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	*
ACT.	-	75	75	75	100	115	125	160	200	*
Wt./Lbs	-	12.4	14.0	15.3	25.2	39.3	62.5	94.1	153	*

* Consult Factory

DA501S- Direct Mount, Lug Body, EPDM Seats, Stainless Steel Disc Butterfly Valve With Double Acting Actuator

SR501S- Direct Mount, Lug Body, EPDM Seats, Stainless Steel Disc Butterfly Valve With Spring Return Actuator

DA501N- Direct Mount, Lug Body, EPDM Seats, Nylon Coated Ductile Iron Disc Butterfly Valve With Double Acting Actuator

SR501N- Direct Mount, Lug Body, EPDM Seats, Nylon Coated Ductile Iron Disc Butterfly Valve With Spring Return Actuator

Table 20 DA501S Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	3.03
B	-	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	31.38
C	-	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	21.85
D	-	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	20.55
E	-	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	7.36
ACT.	-	52	52	63	75	75	85	100	125	140
Wt./Lbs	-	7.7	9.3	11.7	16.3	22.8	28.2	46.9	76.1	114.7

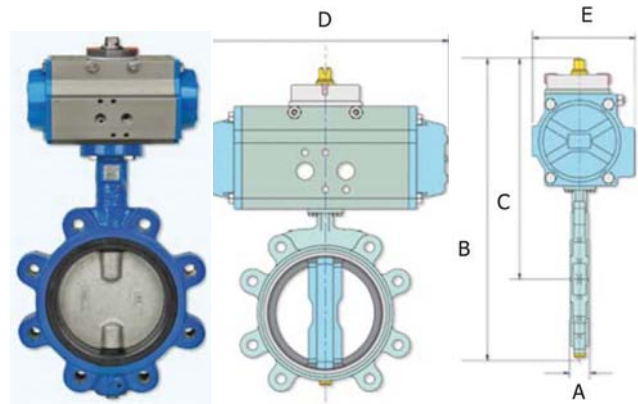


Table 21 SR501S Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	-	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	*
C	-	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	*
D	-	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	*
E	-	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	*
ACT.	-	75	75	75	100	115	125	160	200	*
Wt./Lbs	-	15.3	16.2	17.3	34.2	47.9	76.6	105	170	*

Table 23 SR501N Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	*
B	-	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	*
C	-	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	*
D	-	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	*
E	-	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	*
ACT.	-	75	75	75	100	115	125	160	200	*
Wt./Lbs	-	15.3	16.2	17.3	34.2	47.9	76.6	105	170	*

* Consult Factory

Table 22 DA501N Dimensions (Inches)										
Size	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
A	-	1.65	1.76	1.78	2.05	2.14	2.19	2.38	2.58	3.03
B	-	13.01	13.91	14.83	16.97	18.4	19.94	23.88	27.60	31.38
C	-	9.86	10.41	11.09	12.48	13.4	14.47	16.99	19.61	21.85
D	-	5.49	5.49	6.38	8.15	9.35	10.69	12.91	16.85	20.55
E	-	2.80	2.80	3.17	3.72	4.17	4.84	5.39	6.46	7.36
ACT.	-	52	52	63	75	75	85	100	125	140
Wt./Lbs	-	10.6	11.5	13.7	25.3	31.4	42.3	57.9	93.0	131.4

ORDERING INFORMATION

Valve Operation	Order Information	Sample Part Number
Manual	1) Select model number from table 3 2) Select size from table 4	G500N-2"
Electric Operater	1) Select model number & size from tables 10,11,13,14 2) Select voltage from tables 10 & 15	E501S-2"-002
Pneumatic	1) Select model number & size from tables 16, 17, 18, 19, 20, 21, 22, 23	E500N-5"