

# Series 800 Butterfly Valves

## AWWA C504 Class 150B and 250B

### In Plant / Exposed Service, 3" to 24"

#### Description

The GA Industries Series 800 AWWA Butterfly Valves are rugged, versatile and dependable valves routinely used in water filtration plants, pumping stations, pipelines and power plants to isolate equipment or systems.

The standard valve utilizes a high strength ductile iron body containing a molded and vulcanized EPDM-P rubber seat in combination with a 316SS disc seat for bi-directional tight shutoff at low and high pressure.

Series 800 exposed service AWWA butterfly valves are available with a manual lever for quarter turn operation or a worm gear with handwheel (optional chainwheel) or 2" nut. Electric motor and pneumatic actuation is also available.

#### Standard Features

- Internal and external epoxy coated, high strength ductile iron body
- Rubber lined with integral seat, molded and vulcanized to body
- Bi-directional zero leakage seating up to full rated pressure
- Self-adjusting shaft seals
- Type 316 stainless steel external fasteners
- Integral FA actuator mounting pad, eliminates brackets

#### Standard Materials

- Body Ductile Iron, ASTM A536 Grade 65-45-12
- Body Seat EPDM-P Rubber (Optional Buna-N)
- Disc Ductile Iron, ASTM A536 Grade 65-45-12 with 316SS Seat Edge
- Shaft Class 150B: Type 304 SS  
Class 250B: Type 17-4PH SS
- Shaft Bearings Self Lubricating
- External Fasteners Type 316 Stainless Steel

#### Corrosion Protection

- Standard: Internal and External PPG/Amerlok 400 NSF-61 Certified 2-Part Epoxy, Minimum 6 mil DFT

Data Sheet 800.01E



#### Approvals & Certifications

- Fully complies with AWWA Standard C504
- NSF-61 Certified for Contact with Drinking Water
- NSF-372 Certified Lead Free (Max 0.25% Lead Content by Weighted Average)

#### Options and Accessories

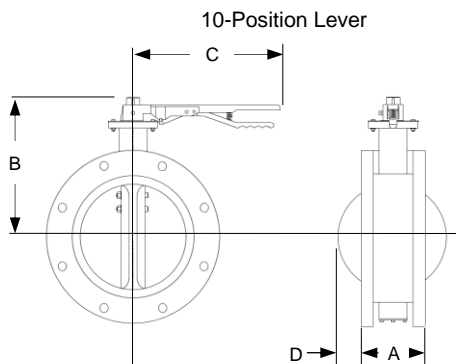
- Option BZ – Supplied with Lead-Free Bronze Disc
- Option CW – With Chainwheel – Facilitates Operation of Overhead Handwheel Operated Valves

#### Ordering Data

- Series 800
- Pressure Class (150B or 250B)
- Size
- Connection (Class 125 flanged)
- Options/Accessories

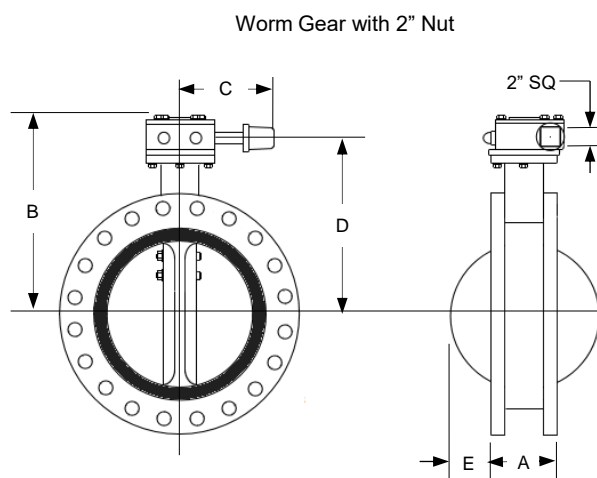
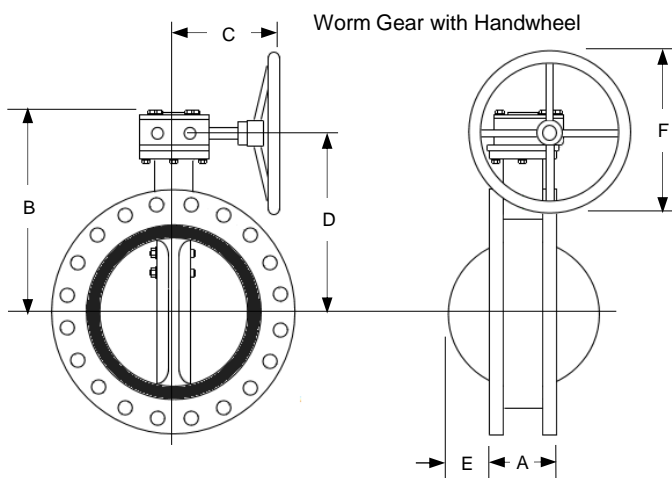
Non-Shock Working Water Pressure 33F to 125F (1C to 52C)				
AWWA C504 Pressure Class	Class 150B		Class 250B	
Connections	ANSI Class 125 Flanges		ANSI Class 125 Flanges	
Operation	10-Position Lever	Worm Gear with Handwheel or 2" Nut	10-Position Lever	Worm Gear* with Handwheel or 2" Nut
Size	3" to 8"	3" to 24"	3" to 8"	3" to 24"
Max Working Pressure	150 PSI		250 PSI	
Hydro Test	300 PSI		500 PSI	

Data Sheet 800.01E



**10 Position Lever Installation Dimensions**

SIZE	3"	4"	6"	8"
A	5	5	5	6
B	7 $\frac{3}{4}$	9 $\frac{1}{2}$	10	11 $\frac{1}{2}$
C	10 $\frac{1}{4}$	10 $\frac{1}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$
D (Typ)	--	--	$\frac{1}{2}$	1
WGT	26	39	64	108



**Worm Gear Installation Dimensions**

SIZE	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
A	5	5	5	6	8	8	8	8	8	8	8
B	9 $\frac{1}{4}$	10	11	12 $\frac{1}{2}$	13 $\frac{3}{4}$	15 $\frac{3}{8}$	17	19 $\frac{1}{4}$	20 $\frac{1}{4}$	22 $\frac{1}{4}$	28 $\frac{3}{8}$
C	Hand Wheel	8 $\frac{7}{8}$	8 $\frac{7}{8}$	8 $\frac{7}{8}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$	13 $\frac{1}{2}$	13 $\frac{1}{2}$	13 $\frac{1}{2}$	16 $\frac{3}{8}$
	2" Nut	8 $\frac{1}{2}$	8 $\frac{1}{2}$	8 $\frac{1}{2}$	8 $\frac{3}{4}$	8 $\frac{3}{4}$	8 $\frac{3}{4}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	14 $\frac{5}{8}$
D	9	9 $\frac{5}{8}$	10 $\frac{5}{8}$	12 $\frac{1}{4}$	13 $\frac{1}{2}$	15 $\frac{1}{4}$	16 $\frac{7}{8}$	19	20 $\frac{1}{2}$	22	26 $\frac{1}{2}$
E (Typ)	--	--	$\frac{1}{2}$	1	1	2	3	4	5	6	8
F	12	12	12	12	12	12	12	16	16	16	20
WGT	53	62	79	110	159	225	287	452	509	602	880

- Actuator can be rotated in 90-degree increments about valve centerline
- Dimensions in inches and weight in pounds and are approximate. Request certified drawings if critical.

**Flow Coefficients**

SIZE	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
C <sub>v</sub>	186	378	874	1939	3580	6700	9845	13734	17377	22028	28679
K	2.29	1.64	1.58	0.97	0.70	0.40	0.27	0.24	0.24	0.23	0.32