

# Series 120

## Large Diameter Butterfly Valve

Designed for handling high volume solution movement, this large diameter valve is an excellent choice for throttling or isolation service.

- Power plant water circulation control in cooling towers, scrubbers and condenser units
- Regulating flow in mining applications for tailing and corrosive slurries
- Limestone slurry isolation in FGD power plant circuits
- Chemical, waste and water treatment, pulp and paper and many other applications.

### New or Remanufactured

Give us your old butterfly valves from Keystone, Media, Fisher, Dezurik, Pratt (to name a few), from 18" to 96" and we will re-manufacture it to like-new quality – *guaranteed!*

Most standard sizes can be remanufactured in less than 30 days during your scheduled outages. Adapters are available for different shaft lengths and special operators. Order a new replacement valve before your next outage to ensure a timely installation, then send us your used valve for a remanufactured spare.

Typically when remanufacturing your valve the following critical process steps will occur:

- Strip old elastomer
- Repair, treat and line body with Towniprene™ urethane
- Install new elastomer-lined, fabricated carbon steel disc
- Replace bushings, seals and packing
- Install new one piece shaft
- Strip, prep and paint with resistant epoxy paint
- Pressure test
- Torque test



### Benefits & Features

#### Safety

- One piece through-disc shaft
- Optional mechanical lock-out

#### Versatility

- Bi-directional flow
- Adaptable to existing actuation
- 18" to 96"

#### Positive Sealing

- Cast-in Towniprene™ seal
- Elastomer coated disc
- Pressure tested

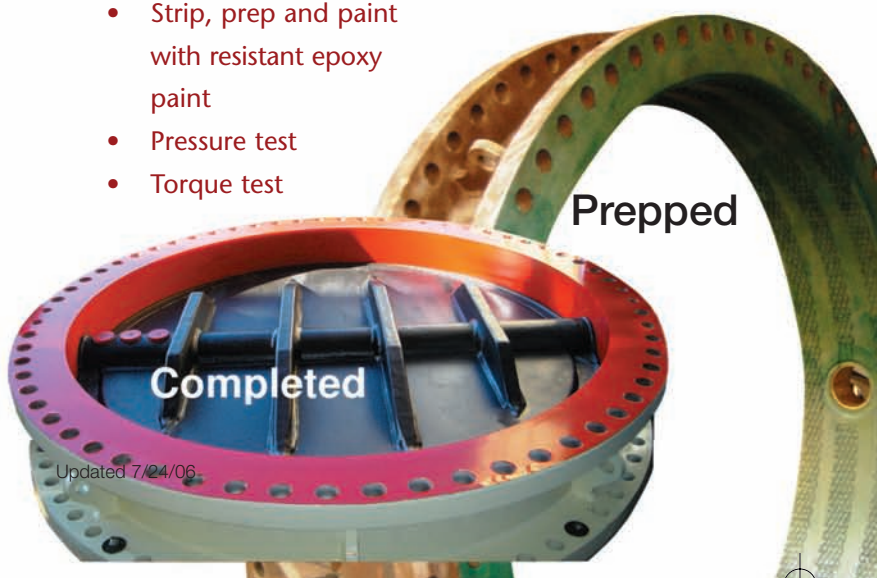
#### Long Service Life

- All wetted parts coated with Towniprene™ (urethane) and optional elastomers
- Strong carbon steel fabricated body
- Mollusk resistant elastomer

Call or email us and an experienced Townley Technical Representative will work with you to specify the right valve and actuation for your application

(800) 342-9920

[www.townley.net](http://www.townley.net)  
[info@townley.net](mailto:info@townley.net)



# Series 120 Butterfly Valve

# Townley Engineering & Manufacturing

## Series 120

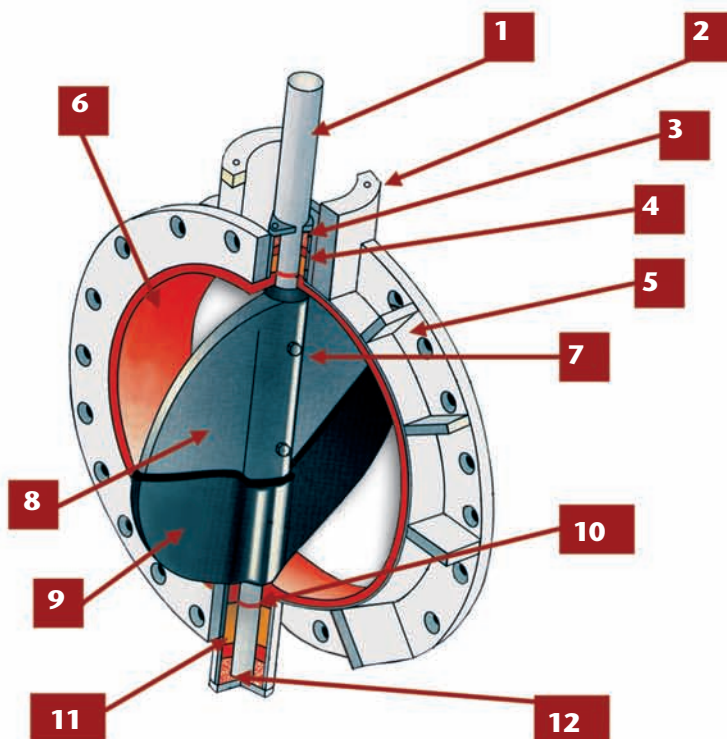
### Materials of Construction

<b>Body</b>	Fabricated steel ASTM A-36 or cast ductile iron ASTM 65-45-12
<b>Body Lining</b>	Towniprene™ urethane elastomer
<b>Disc</b>	Fabricated steel ASTM A-36 or cast ductile iron ASTM 65-45-12
<b>Disc Covering</b>	Options: Neoprene, natural rubber, SBR, chlorobutyl or hypalon
<b>Shaft</b>	Stainless steel 17-4, one piece
<b>Bushings and Thrust Plate</b>	Bronze
<b>Packing</b>	Buna-N / graphite / Towniprene™
<b>Mounting Plate</b>	Fabricated steel ASTM A-36
<b>Flanges</b>	AWWA C-207 Table I, class D (150 PSI), carbon steel (ASTM A- 283-C) ANSI B 16.5 150 PSI drilling

## Series 120 Butterfly Valve Dimensions

Valve Size	General Dimensions									Flange Drilling				Top Plate Mounting Dimensions			
	A	B	C	D	E	F	G	Keyway	Bolt Circle	# of Bolts	Bolt Hole ID	Bolt Size (UNC)	OD	Bolt Circle	# Bolts	Bolt Hole Size	
18	17 1/4	25	15 1/2	4 3/8	3 1/2	1 7/8	1 7/8	1/2 x 1/4	22 3/4	16	1 1/4	1 1/8 - 7	8	6 1/2	4	13/16	
20	19 1/4	27 1/2	16 1/2	5 1/8	3 1/2	2	1 7/8	1/2 X 1/4	22 3/4	20	1 1/4	1 1/4 - 7	8	6 1/2	4	13/16	
24	23 1/4	32	19 1/2	<i>see below</i>	3 1/2	2	1 7/8	1/2 X 1/4	29 1/2	20	1 3/8	1 1/4 - 7	8	6 1/2	4	13/16	
30	29 1/4	38 3/4	23 3/8	<i>see below</i>	4	2 1/2	2 1/4	1/2 X 1/4	36	28	1 3/8	1 1/4 - 7	12 X 12	8 1/2	4	7/8	
36	35 1/4	46	26 7/8	12	4	3	2 7/8	3/4 X 3/8	42 3/4	32	1 5/8	1 1/2 - 6	12 X 12	5 1/2	4	7/8	
42	41 1/4	53	31 1/2	12	*	3 3/8	*	*	49 1/2	36	1 5/8	1 1/2 - 6	*	*	*	*	
48	47 1/4	59 1/2	36 1/4	15	*	4	*	*	56	44	1 5/8	1 1/2 - 6	*	*	*	*	
54	53 1/4	66 1/4	40	15	*	4 1/2	*	*	62 3/4	44	1 7/8	1 3/4 - 5	*	*	*	*	
60	59 1/4	73	43 1/4	15	*	4 3/4	*	*	69 1/4	52	1 7/8	1 3/4 - 5	*	*	*	*	
66	65 1/4	80	47 5/8	18	*	5	*	*	76	52	1 7/8	1 3/4 - 5	*	*	*	*	
72	71 1/4	86 1/2	50	18	*	5 3/4	*	*	82 1/2	60	1 7/8	1 3/4 - 5	*	*	*	*	
78	77 1/4	93	52 1/2	22	*	6	*	*	89	64	2 1/8	2 - 4.5	*	*	*	*	
84	83 1/4	99 3/4	58 5/8	18	*	6 1/2	*	*	95 1/2	64	2 1/8	2 - 4.5	*	*	*	*	
90	89 1/4	106 1/2	62	22	*	7 1/2	*	*	102	68	2 7/16	2 1/4 - 4.5	*	*	*	*	
96	95 1/4	113 1/4	64 5/8	24	*	7 1/2	*	*	108 1/2	68	2.4375	2 1/4 - 4.5	*	*	*	*	

**A**-Throat diameter **B**-Flange OD **C**-Center of port to mounting plate **D**-Face to Face **E**-Mounting plate to shaft top **F**-Shaft diameter **G**-Shaft end diameter  
**\*To match actuator** (Note: **24" Valve**, C dimensions...5 15/16" or 8" **30" Valve**, C dimensions...6 9/16" or 12")



- 1 One piece through-disc shaft
- 2 Mounting Plate
- 3 Packing Gland
- 4 Upper Shaft Seal & Bushing
- 5 Fabricated Body
- 6 Towniprene™ Urethane Body Lining
- 7 Taper Pins
- 8 Fabricated Disc
- 9 Elastomer Coating
- 10 Lower Shaft Seal & Bushing
- 11 Thrust Plate
- 12 Removable Bottom Plate

## TOWNLEY

Engineering & Manufacturing Co., Inc.

www.townley.net • (800) 342-9920  
 info@townley.net

