

ABZ Valves Double Offset High Performance Butterfly 400 Series



# Feature & Benefits

- 1. Underneath Drawn Gland Packing Allows for ease of user adjustment to the gland nuts and direct mounting of actuation.
- 2. Stem Retention System Provides positive stem retention above the packing.
- 3. Mounting Flange Designed to direct mount actuation for ease of installation and cost saving.
- 4. Body is available in Wafer and Lug.
- 5. Packing PTFE is a cup and cone system.
- Bearings Made of 316 stainless steel sleeves impregnated with RTFE to ensure long service life.
- Seat Retainer The heavy-duty retainer plate and cap screws provide a full rated bi-directional dead end service valve. The seat retainer seal prevents leakage to the atmosphere past the retainer plate and body.
- 8. Seat Utilizes a solid soft seat with a unique channel design. This advanced design provides a bi-directional interference and pressure-assisted seal. This achieves maximum seal at low or high pressures while preventing the seat from bending or deflecting downstream.
- Disc Taper Pins Pins are offset from the center of the stem, which places them in compression rather than in sheer. This gives them a yield point greater than the stem itself. Pins are welded in place after final assembly and testing.
- 10. Integrally Cast Disc Position Stop Machined position stop in the body locates the disc in the seat to achieve maximum seat and seal life.
- Disk Cast from 316 Stainless Steel (CF8M A351), and engineered to allow for quick release from the seat. The disc has a heavy duty low cavitation cross section connection to the stem. This results in lower torques and smoother operations.
- 12. Stem Manufactured of high strength 17-4 PH Stainless Steel to provide maximum strength and stability for high torque applications.

 411 is a 150 Class Wafer
 412 is a 150 Class Lug

 431 is a 300 Class Wafer
 432 is a 300 Class Lug

### Standard Production Range

	ANSI Class 150	ANSI Class 300	
PSI Rating	285	740	
Size – Inch	2"-24"	2"-24"	
Design Specifications	API 609		
Testing	API 598		
Face to Face Specifications	ANSI B16.10 / API 609		
End Flange Specifications	ASME B16.5: CLASS 150, 300 JIS B2210: 10K, 16K, 20K DIN ISO: PN10, PN16, PN25, PN40		
Connection	Wafer / Lugged		
Actuator – Manual	Lever Handle Worm Gear Operator		
Actuator - Automated	Electric Motor Pneumatic Double Acting Pneumatic Spring Retirn		

### Main Materials

Body A	ANSI Class 150	ANSI Class 300			
	Carbon Steel	Carbon Steel (A216-WCB)			
	316 SS (A3	316 SS (A351-CF8M)			
Disc	316 SS (A351-CF8M)				
Stem	17-4 PH SS (A564-630)				
Seat	PTFE				
	RT	FE			
Shaft Bearing	316 SS + RTFE	Impregnated			
Packing Seal	PT	FE			
Additional materials available upon request					

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### Seat Material and Rating

Seat Material	Rating
PTFE	Class VI, Bubble Tight
RTFE	Class VI, Bubble Tight





### Parts Schedule

Item		Mate	Materials	
No.	Name	Trim 100	Trim 102	No Req'd
1	Body	A216-WCB	A351-CF8M	1
2	Seat	RT	RTFE	
3	Disc	A351-CF8M		1
4	Stem	17-4	17-4 PH	
5	Seat Retainer	A216-WCB	A351-CF8M	1
6	Gland Flange	A216-WCB	A351-CF8M	1
7	End Cap	A216-WCB	A351-CF8M	1
8	Packing Gland	316		1
9	Packing Stack	PTFE		1 SET
10	Packing Retainer	316		1
11	O-Ring	PT	1	
12	Upper Bearing	316 + PTFE		1 SET
13	Retainer Ring	3	1	
14	Cap Packing	PTFE		2
15	Adjustment Washer	PT	1	
16	Spring Washer	3	4	
17	Cap Bolt	3	4	
18	Tapper Pin	3	2	
19	Gland Bolt	3	2	
20	Spring Washer	3	2	
21	Gland Nut	3	2	
22	Retainer Bolt	3	1 SET	



Additional materials available upon request.

## **Our Core Values**

#### No one gets hurt

The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

#### Integrity

In everything we do, in every interaction, both internally and externally, we strive to operate with the upmost integrity and mutual respect.

#### Customer focused

Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

#### Good place to work

We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.

#### Forum US, Inc.

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