High Performance Double Offset
Butterfly Valves

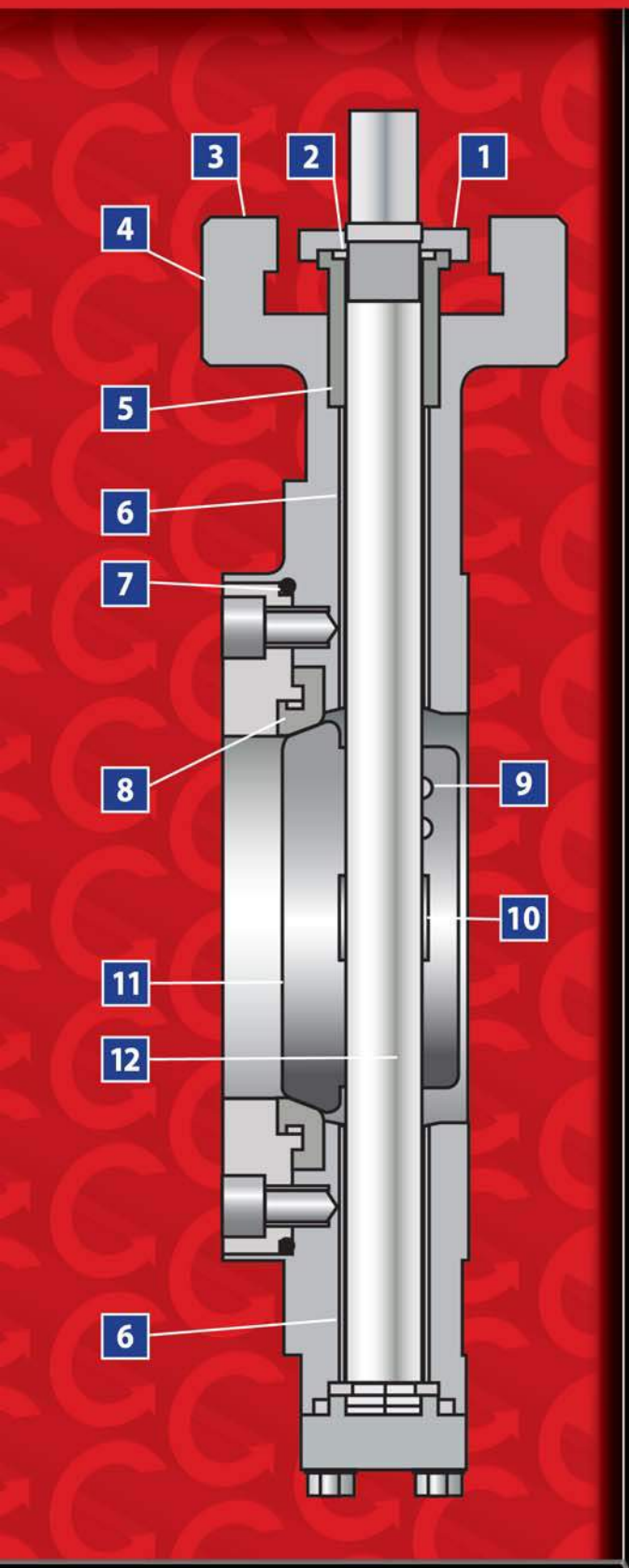
ABZ VALVE
A GFT COMPANY

Elite 400 Series

Sizes
2" - 24"

ABZ VALVES & CONTROLS
PO Box 157 • 113 W. Main • Madison, KS 66860
620-437-2440 • FAX 620-437-2435
www.abzvalve.com • info@abzvalve.com

Elite 400 Series High Performance Double Offset Butterfly Valve



FEATURE AND 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.

6 Bearings – Made of 316 stainless steel sleeves impregnated with RTFE to ensure long service life.

7 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.

9 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.

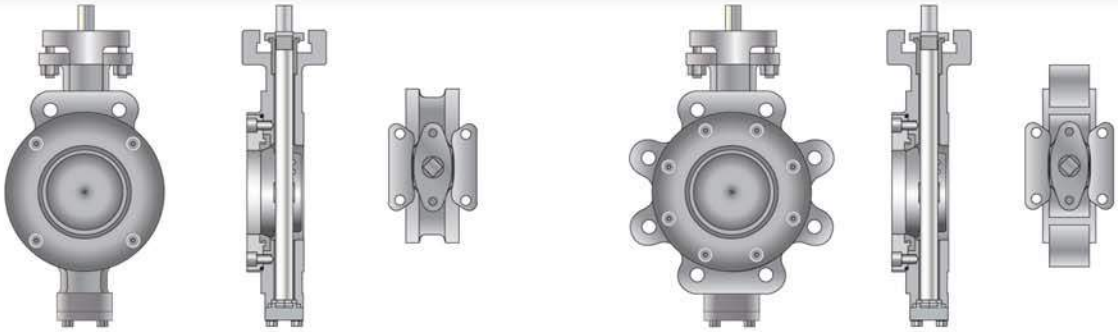
10 Integrally Cast Disc Position Stop – Machined position stop in the body locates the disc in the seat to achieve maximum seat and seal life.

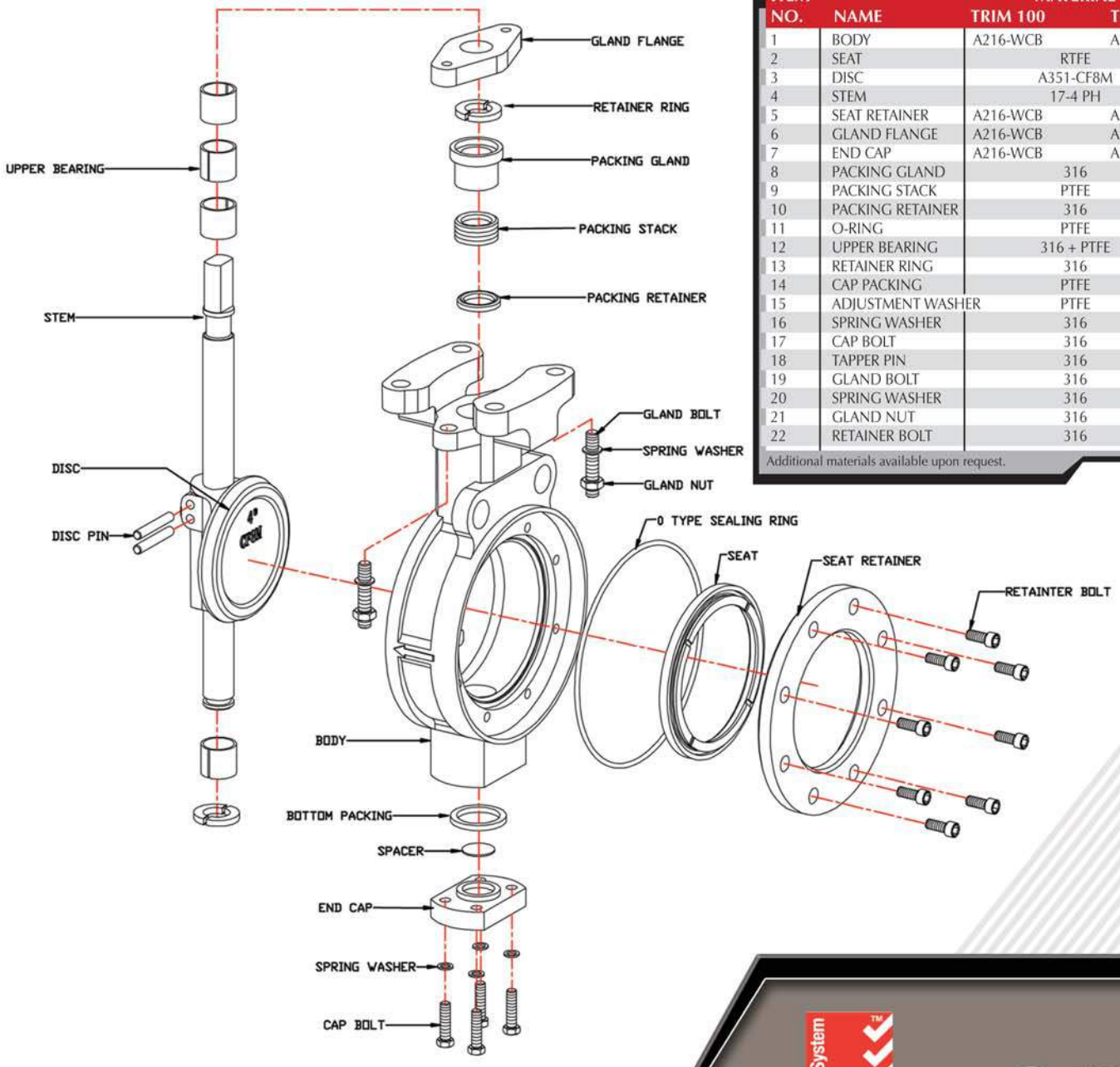
11 Disk – Cast from 316 Stainless Steel (CF8M – A351), and engineered to allow for quick release from the seat. The disc has a heavy duty low cavitation cross section connection to the stem. This results in lower torques and smoother operations.

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

ABZ VALVE
A GIT COMPANY





PARTS SCHEDULE

ITEM NO.	NAME	MATERIAL TRIM 100	MATERIAL TRIM 102	NO REQ'D
1	BODY	A216-WCB	A351-CF8M	1
2	SEAT	RTFE		1
3	DISC	A351-CF8M		1
4	STEM	17-4 PH		1
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	PTFE		1
12	UPPER BEARING	316 + PTFE		1 SET
13	RETAINER RING	316		1
14	CAP PACKING	PTFE		2
15	ADJUSTMENT WASHER	PTFE		1
16	SPRING WASHER	316		4
17	CAP BOLT	316		4
18	TAPPER PIN	316		2
19	GLAND BOLT	316		2
20	SPRING WASHER	316		2
21	GLAND NUT	316		2
22	RETAINER BOLT	316		1 SET

Additional materials available upon request.

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 RETURN	

Main Materials

BODY	ANSI CLASS 150	ANSI CLASS 300
	CARBON STEEL (A216-WCB) 316 SS (A351-CF8M)	
DISC	316 SS (A351-CF8M)	
STEM	17-4 PH SS (A564-630)	
SEAT	PTFE RTFE	
SHAFT BEARING	316 SS + RTFE IMPREGNATED	
PACKING SEAL	PTFE	

Additional materials available upon request.

Seat Material and Rating

SEAT MATERIAL	RATING
PTFE	CLASS VI, BUBBLE TIGHT
RTFE	CLASS VI, BUBBLE TIGHT

ABZ VALVES & CONTROLS, INC.
A Global Flow Technologies Company
P.O. Box 157 • 113 West Main • Madison, KS 66860
PHONE: 620-437-2440 • FAX: 620-437-2435
www.abzvalve.com • www.globalflowtech.com
info@abzvalve.com