



Models

BFFxxxxWA5: 2-way, 2", Full Lugged
BFGxxxxWA5: 2-way, 2-½", Full Lugged
BFHxxxxWA5: 2-way, 3", Full Lugged
BFJxxxxWA5: 2-way, 4", Full Lugged
BFXxxxxWA5: 2-way, 5", Full Lugged
BFLxxxxWA5: 2-way, 6", Full Lugged
BFMxxxxWA5: 2-way, 8", Full Lugged
BFNxxxxWA5: 2-way, 10", Full Lugged
BFPxxxxWA5: 2-way, 12", Full Lugged



Features

Body

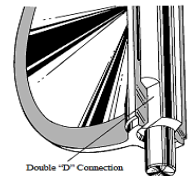
- One-piece lug style
- Polyester coating for excellent corrosion resistance
- Nylon 11 coating is available as an option

Size Range

2"-12" (50mm – 305mm)

Disc-Stem Connection

- Double "D" connection with close tolerance for high-strength torque transmission
- Eliminates exposed stem failures (e.g., leaks, corrosion, vibration)

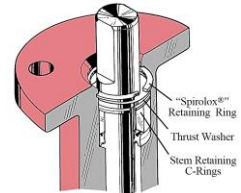


Disc Design

Spherically machined and hand-polished for bubble-tight shutoff, minimum torque, and extended seat life

Stem Retaining Assembly

- Retained with Spirolox® ring, thrust washer, and C-rings
- Retaining ring is removable with a standard hand tool
- Prevents unintentional removal during service



Stem Bushing

- Heavy-duty, non-corrosive acetal bushing
- Absorbs actuator side thrusts
- Double "U" cup seal

Stem Seal

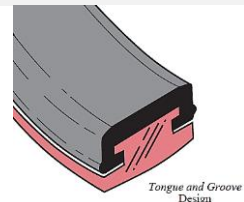
- Self-adjusting, seals in both directions
- Prevents external contaminants from entering stem bore

Neck Extension

- Extended neck allows 2" of insulation clearance
- Facilitates easy mounting of actuators

Seat Design

- Tongue and groove design retains the seat without additional hardware
- Resilient elastomer seat reduces torque; isolates body from flow
- No flange gaskets needed; designed for slip-on or weld-neck flanges
- Simplifies maintenance and replacement



Primary & Secondary Seals

- Primary Seal: Interference fits between the molded seat flat and disc hub
- Secondary Seal: Achieved by a stem diameter larger than the seat stem hole, isolating stem and body from line media



Models

Size	2-Way Models	Cv	Kv	Close Off PSI
2"	BFFxxxxWA5	165	142	200
2-1/2"	BFGxxxxWA5	250	216	200
3"	BFHxxxxWA5	380	328	200
4"	BFJxxxxWA5	650	562	200
5"	BFKxxxxWA5	1100	951	150
6"	BFLxxxxWA5*	1790	1548	100/200
8"	BFMxxxxWA5	3300	2854	200
10"	BFNxxxxWA5	4820	4169	150
12"	BFPxxxxWA5	6200	5363	100

***Note:** For 6" BFLxxxxWA5, the maximum close-off pressure is 100 PSI when used with T and R series actuators, and 200 PSI when used with the U series actuator.

Butterfly Valve Cv Chart

Size	Cv at Various DISC Openings								
	10%	20%	30%	40%	50%	60%	70%	80%	90%
2"	1	7	16	27	43	61	84	114	144
2-1/2"	1.5	11	24	43	67	107	163	223	282
3"	2	15	35	61	96	154	267	364	461
4"	3	27	62	109	171	274	496	701	841
5"	5	43	98	170	268	428	775	1146	1376
6"	6	56	129	225	354	567	1025	1542	1850
8"	12	102	241	421	680	1081	1862	2842	3316
10"	19	162	382	667	1076	1710	2948	4525	5430
12"	27	235	555	1005	1594	2563	4393	6731	8077

Technical Data

Specification		All Models
Actuator Compatibility		All Neptronic R, T, and U series actuators
Sizes		2" to 12"
Valve Flow Type		2 Way: Equal Percentage
Materials	Body	Cast Iron
	Disc	Nylon 11
	Seat	EPDM Peroxide Cured
	Stem	416 stainless Steel
End Connections		Lug ANSI 125

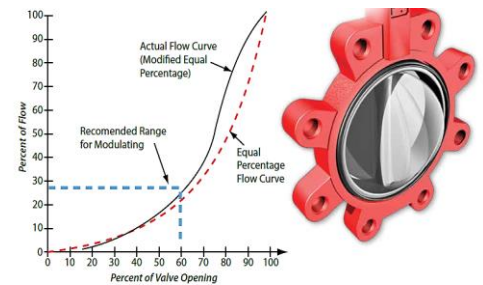


Fig. 1 Equal Percentage Flow Curve Chart



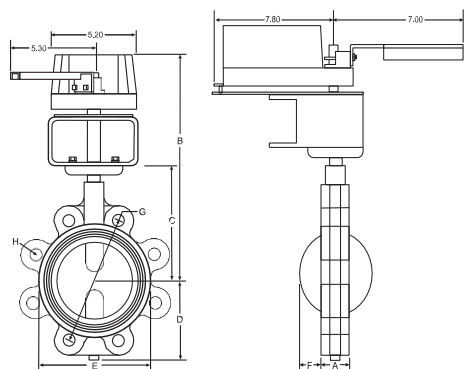
Components

No.	Qty.	Description
1.	1	Body
2.	1	Seat
3.	1	Disc
4.	1	Stem
5.	1	Stem Seal
6.	1	Stem Bushing
7.	2	Stem Retainer
8.	1	Thrust Washer
9.	1	Retaining Ring



Dimensions

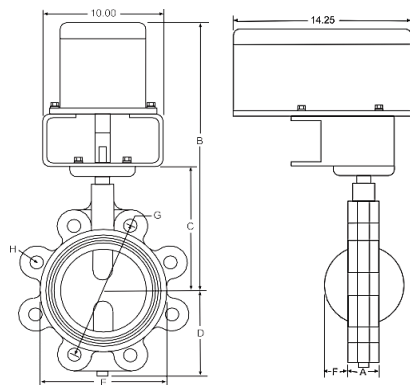
2 Way, 2-6" with TT / TM / RT, or RM Actuators



T Actuator Series Dimensions (inches)										
Valve Size	Valve Model Prefix	A	B	C	D	E	F	G	H: Lugs	
									No	Size
2"	BFFxxxxWA5	1.69 in	11.39	5.51	2.72	3.69	0.24	4.74	4	5/8-11
2½"	BFGxxxxWA5	1.81 in	11.79	5.91	3.15	4.59	0.40	5.49	4	5/8-11

T Actuator Series Dimensions (inches)										
Valve Size	Valve Model Prefix	A	B	C	D	E	F	G	H: Lugs	
									No	Size
3"	BFHxxxxWA5	1.81	11.98	6.10	3.50	5.03	0.75	6.00	4	5/8-11
4"	BFJxxxxWA5	2.05	12.45	6.57	4.53	5.85	0.95	7.50	8	5/8-11
5"	BFKxxxxWA5	2.20	13.24	7.36	5.24	7.07	1.46	8.50	8	3/4-10
6"	BFLxxxxWA5	2.20	13.83	7.95	5.66	8.22	1.93	9.51	8	3/4-10

2 Way, 6-12" with UT or UM Actuators



U Actuator Series Dimensions (inches)										
Valve Size	Valve Model Prefix	A	B	C	D	E	F	G	H: Lugs	
									No	Size
6"	BFLxxxxWA5	2.20	18.70	7.95	5.66	8.22	1.93	9.51	8	3/4-10
8"	BFMxxxxWA5	2.36	19.81	9.06	6.85	10.03	2.76	11.75	8	3/4-10
10"	BFNxxxxWA5	2.68	21.77	11.02	8.78	12.31	3.60	14.25	12	7/8-9
12"	BFPxxxxWA5	3.07	22.95	12.20	10.24	14.12	4.31	17.01	12	7/8-9

Note: These dimensions depend on the supplier and can be changed without any warning.



Recycling at end of life: please return this product to your Neptronic local distributor for recycling. If you need to find the nearest Neptronic authorized distributor, please consult www.neptronic.com.