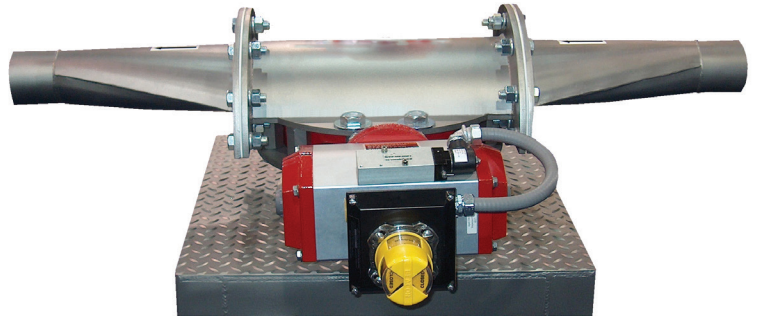


Butterfly Scale Diverter (BSD) Valve

- Designed for diverting material into a scale hopper
- Available in aluminum or stainless steel
- White neoprene food grade flange gaskets
- Line sizes up to 6"



Application

BSD Valves are specialized switching devices used in a pneumatic conveying line. Typically, they are utilized for diverting material from a pneumatic conveying line into a scale hopper.

Operating specifications

Expected seating/unseating torques (Lb.-Ins.)**

Line Size	Valve Size	Delta P (psi)	
		0	50
2.5" - 3"	8	1,011	1,230
4" - 5"	10	1,517	1,867
6"	12	2,287	2,850

**Based on C - Severe Service

Valve (act.)	Air supply pressure (psig)				
	40	50	80	100	120
8/10" (127)	1,410	2,152	2,894	3,636	4,378
12" (160)	2,797	4,270	5,742	7,214	8,687

Recommended actuator air supply pressure 80 psig

Actuator speed @ 80 psig

- 1/2 second (#127 actuator)
- 1 second (#160 actuator)

Max. actuator volume

- 127 - 138.8 cubic in
- 160 - 259.6 cubic in

Materials of construction

- 10 gauge 304 stainless steel or .125" aluminum
- Cast iron butterfly valve body with 316 stainless steel disc and Buna N seat
- White neoprene food grade flange gaskets

Finish

- No paint aluminum or stainless steel full welded exterior
- CG 24, 80 or 120 product contact welds
- Hard gloss epoxy coating on butterfly valve body

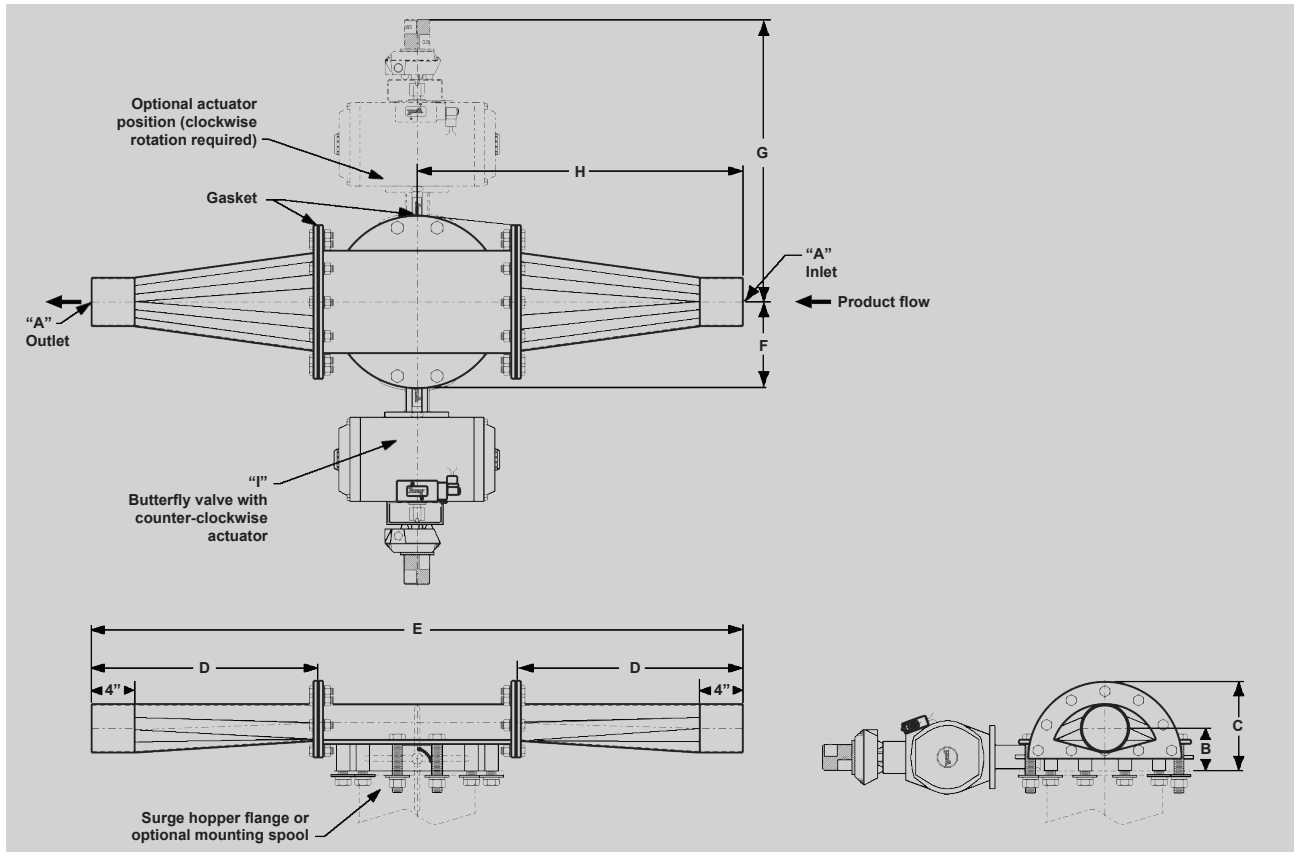
Sizes

- Line sizes 2 1/2", 3", 4", 5" and 6" sch10 or OD tubing
- Valve sizes
 - 2 1/2" and 3" – 8" butterfly valve
 - 4" and 5" – 10" butterfly valve
 - 6" – 12" butterfly valve
- Clockwise or counterclockwise valve rotation (Counterclockwise standard)

Options

- Nema 4, 9 single coil solenoid (Nema 4 standard)
- Nema 4, 9 position proof switch (Nema 4 standard)
- Discharge mounting spool, 304 stainless steel or aluminum

Dimensions



Model	Dimensions (inches)									Approx. Weight (lbs.)	
	A	B	C	D	E	F	G	H	I	304SS	Aluminum
BSD2.5	2.5" OD	4.06								100	70
BSD2.5	2.5" SC10	3.88								100	70
BSD3	3" Tube	3.81	6.75	12.75	41.25	6.75	23.5	20.63	8	100	70
BSD3	3" SC10	3.56								100	70
BSD4	4" OD	4.19								170	120
BSD4	4" SC10	3.94								170	120
BSD5	5" OD	3.69	8.25	21	60.5	8	26.19	30.25	10	180	120
BSD5	5" SC10	3.41								180	120
BSD6	6" OD	4.44	9.63	21	63	9.5	27.81	31.5	12	210	140
BSD6	6" SC10	4.13								210	140

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