



# PLUS<sup>+</sup> BUTTERFLY

Throttling Butterfly Valve For  
Vacuum Systems



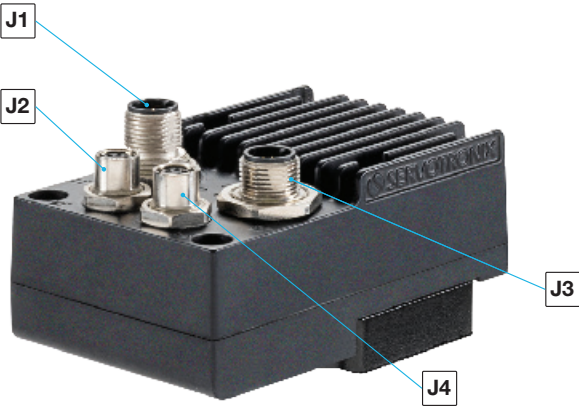
# BUTTERFLY PLUS SERIES

## BF PLUS / THROTTLING VALVE

Your accurate and reliable solution for managing pressure. The BF-Plus is a throttling butterfly valve designed to manage the pressure of vacuum systems by rotating its flapper disc and making real time adjustments to meet the pressure set point. Featuring a robust design, high temp durability, powerful programmable, accurate stepper motor and shut-off capability.

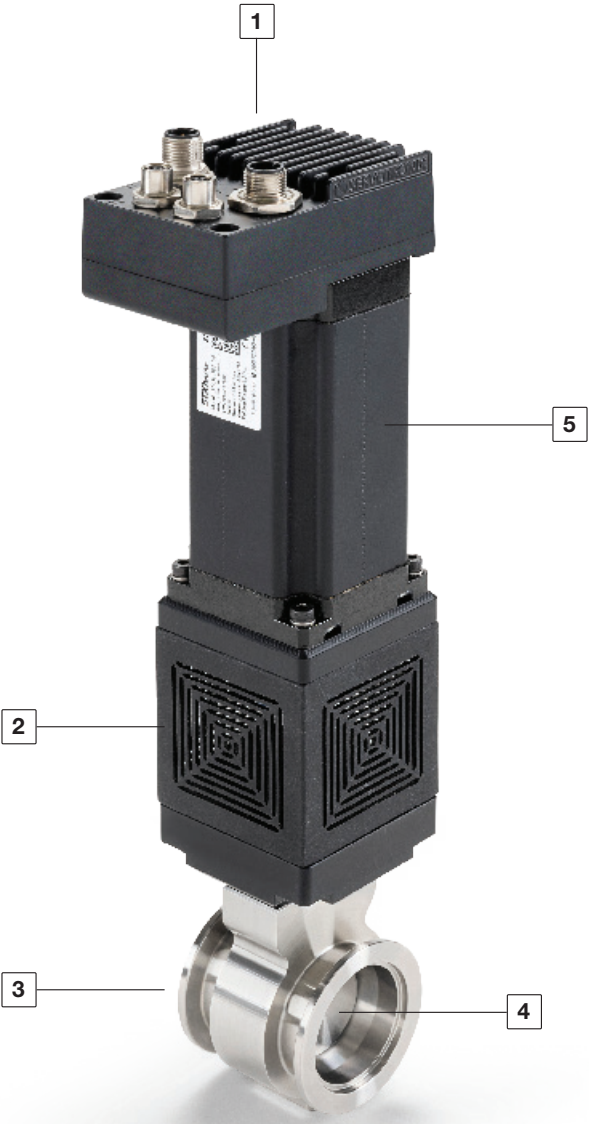
### MATERIALS OF CONSTRUCTION

No.	Components
1	Motor driver
2	Conversion area
3	Valve body
4	Flepper disc
5	Stepper motor

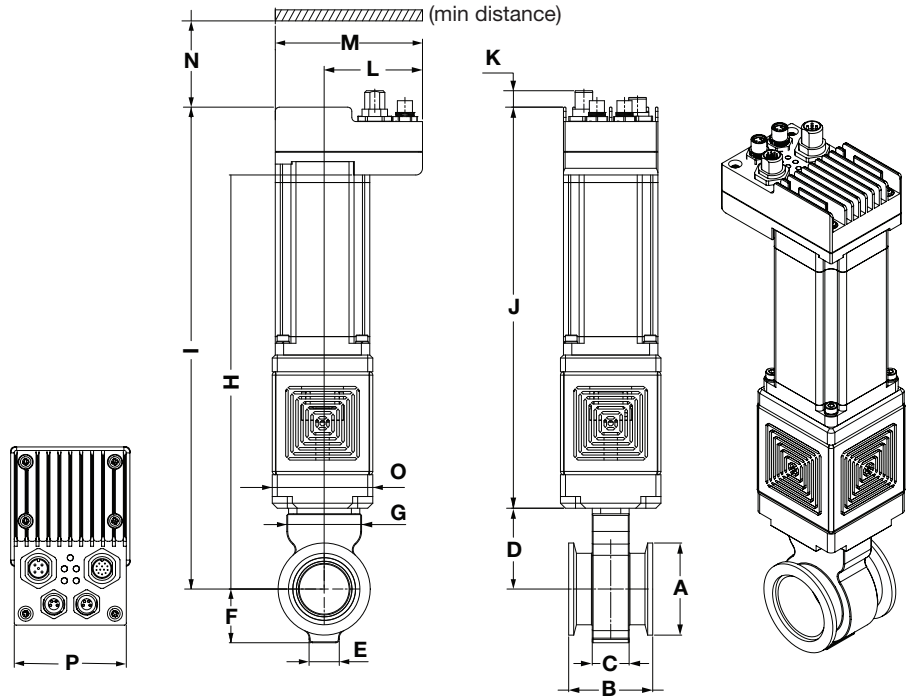


Port	Type
J1	Power
J2	Communication
J3	Input/output
J4	Chain additional valves (optional)

- ### MAIN ADVANTAGES
- Low level of particle generation
  - Compact design
  - Suitable for harsh processes
  - Programable motor
  - Fast & accurate
  - High life cycle –250K shut-off, 2M throttling



## TABLE OF DIMENSIONS



Connection		Conductance L/s	Dimensions															
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Size	Connection Type		mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
DN40	ISO-KF	46	55 (2.16)	50.2 (1.97)	22 (0.87)	48.3 (1.9)	18 (0.71)	32 (1.26)	44.6 (1.76)	247.3 (9.74)	287.8 (11.33)	239.5 (9.43)	9.8 (0.38)	58.7 (2.3)	88 (3.46)	70 (2.76)	60 (2.36)	56.4 (2.22)

## SPECIFICATIONS

Leak Rates									
Body Size	Design Pressure	MAWT	Conductance	Disc	Stem	Motor Resolution	Source Voltage	Rated Current	Handling Torque
40mm	"1x10-8 Mbar - 1.2 Bar"	120°C	45.5 l/s	1x10-9mbar ls-1	1x10-9mbar ls-1	0.8° full step	14-48 VDC	4.5A (6.5A Peak)	2.6Nm (Peak 3.25Nm)

## ORDERING INFORMATION

BFB		-	KF40		-	ETH		-	L1.5	
Valve Series			Body Size			Motor Type			Cables Length	
BFB	BF-Plus		KF40	DN40		ETH	Stepper Motor		L1.5	1.5m
									L5	5m

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