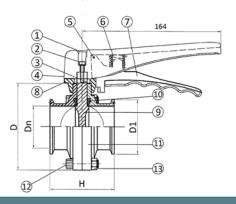


# Sanitary Butterfly Valves

## **F**EATURES

- In sizes from 1/2" (DN15) through 4" (DN100)
- Pressure ratings up to 145 psi (10 bar)
- · Internal finish 32 Ra
- Lockable handle prevents accidental opening or closing of valve
- · Proportional control w/ 12 position SS handle
- · Designed for simple maintenance
- · Available with EPDM or Viton Seats
- · Sanitary Clamp Connection
- · Available as manual or actuated valve

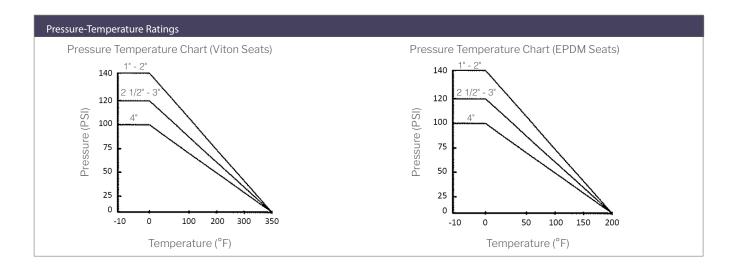
Quick Spec			
Product Scope			
Size Range	1/2" - 4"		
Body Type	Wafer		
Pressure Rating	See Chart Below		
Temperature Range / WSP	See Chart Below		
Body and End Caps	Stainless Steel		
Disk & Stem	Stainless Steel		
Seats	3EPDM or Viton		
Stem Packing & Seals	FDA Approved		
End Connections	Sanitary Clamp Ends		
	g Standards		
Pressure Testing	Industry Standard		





	Standard Materials of Construction				
No	Part	Material	Qty		
1	Сар	ABS	1		
2	Screw Bolt	SS304	1		
3	Spring Washer	SS304	1		
4	Stainless Handle	SS304	1		
5	Pin	SS304	1		
6	Spring	SS304	1		
7	Trigger	SS304	1		
8	Multi - Positioner	SS304	1		
9	Disc	SS304/316L	1		
10	Seal	EPDM / VITON	1		
11	Valve Body	SS304/316L	2		
12	Screw Bolt	SS304	4		
13	Nut	SS304	4		

	Di	mensions (mr	n)	
Size	D	D1	Dn	Н
1/2"	78	25.4	9.4	66.0
3/4"	78	25.4	15.8	66.0
1"	78	50.5	22.1	66.0
1-1/2"	86	50.5	34.8	70.0
2"	102	64.0	47.5	76.0
2-1/2"	115	77.5	60.2	80.0
3"	128	91.0	72.9	84.0
4"	154	119.0	97.4	104.0



### OPTIONAL ADD ON: SMART POSITIONER

This smart positioner is a pneumatic control head used to ensure optimal control of our valves. It is compatible with most PLC (programmable logic controller) automation systems, digital communications, or bus (as-wing).

It is mounted on the upper part of the pneumatic actuator or the process valve to start and provide remote electrical indication of the valve's working position. There is a type indication:

Proximity sensing detector (no contact)

It can be fitted with any valve in the food, beverage and biopharmaceutical industries.

The working principle of this positioner is a signal and instruction device that contains signals and instructions for controlling all types of process valves (pistons) with the following functions:

- Pneumatic and electrical control of valves
- Feedback position indicator
- The possibility of bus communication

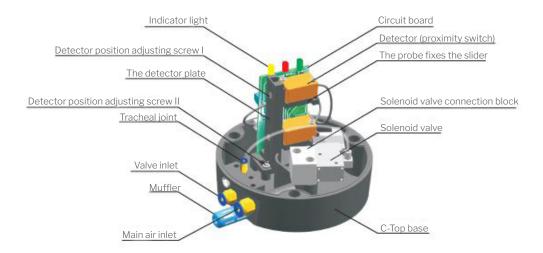
It is mounted on the valve's pneumatic actuator. It receives a signal from the control panel or PLC to control the valve and sends the signal to the PLC or control panel to indicate its status/position.



The positioner has three signal light-emitting diodes that can provide information about valve status at any time:

- A green light: Indicates that the valve is in an open position
- Red light: Indicates that the valve is in the closed position
- Yellow light: Said position 3 is already active (for example: the mixing valve)

#### Positioner Features



## Positioner Specifications

#### The Material:

- Base: reinforced PPO black
- · Top cover: clear blue
- · Seal: EPDM
- · Weight: 0.5KG

#### **Pneumatic Joint**

- Connection: air inlet: G1/8" equipped with plug connector for 1/4 pipe
  - Exhuast outlet: G1/8" equipped with muffler
- Air outlet: G1/8" equipped with an insert connector or plug for 6/4 pipes
- Medium: compressed air
- Temperature: <50°C
- Pressure of work: 0.15 to 0.7Mpa (22-102PSI)
- Traffic: 200NI/min (0.6Mpa, 20°C, 0.1Mpa); (87PSI, 20°C, 87PSI)
- Operation: minimum stroke induction height: 30mm
  - Maximum stroke induction height: 92mm
  - Minimum operating height: 18mm

#### **Electrical Specifications:**

- · Protection level: lp66
- · Power supply: DC 24V or through ASI field bus
- Connection: threaded terminal with M12 wire (standard)
  - Many connector
  - AS the -1 bus

#### Solenoid Valve

- Up to three solenoid valves are available
- Type: One solenoid valve (normally open/normally closed)
  - Two solenoid valves (double acting)
  - Three solenoid valves (anti-mixing valve)
- Air pressure: 0.15 to 0.7Mpa (22-10PSI)
- Power: DC 0.55W
- · DC: 1.9VA
- · The reaction time: <25ms

Optical index: red

#### Detector (inductive)

- The power supply: 24V DC
- · Protection level: lp66

Note: To ensure good valve performance, compressed air must be supplied in accordance with the conditions described in this article. Otherwise, the smart head may cause irreparable damage.

# SMART POSITIONER CHARACTERISTICS

The Connection	Solenoid Valve	Detector number	Power Supply	Description
	0			
	1	2 The Probe	24V DC	Control head with PCB.
The Connector	2	2 me mode	21000	
	3			The power supply is provided directly to the connector.
	0			M10 L
	1	2 Provimity	24V DC	M12 traverse.
	2	2 Proximity Switch	24700	
	3			
	0			
	1	2 The Probe	24V DC	Control head with PCB.
More Needles	2	2 1110 1 1000	21700	
	3			Electrical connection of prewired factory.
	0		24V DC	The Electrical connection is made through the eight terminals.
	1	2 Proximity		terminals.
	2	2 Proximity Switch		
	3			
	0			
	1			Control head with PCB
As-I Bus Connection	2	2 The Probe	24V DC	Connect the smart plug directly to the field bus signal cable.
	3			

# SMART POSITIONER DIMENSIONS



# ORDERING SCHEMATIC

FB7904	1	2	3	4	5	6

	Series
FB7904	Sanitary Butterfly Valve

3	Material
Α	316L

1	Size
1	1/2"
2	3/4"
3	1"
4	1-1/2"
5	2"
6	2-1/2"
7	3"
8	4"

4	Seat
1	EPDM
2	Viton

5	Option 1
0	No Selection
А	Actuator

2	End Connection
А	ASME Tri-Clamp

6	Option 2
0	No Selection
Α	Positioner

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