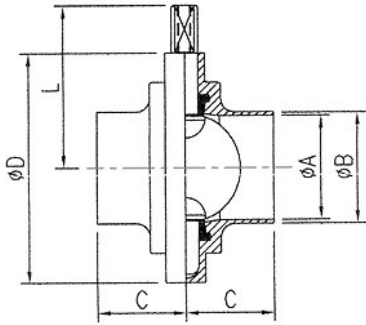


## Butterfly Valves

Hygienic Butterfly valves for use in Food, Dairy, Brewery & general hygienic process applications. Available with EPDM, Viton & Silicone Seals. A full range of end connections are available including Plain Ends for Welding, RJT, IDF, Clamp, DIN & SMS. Internally the valve body is fully machined, the Disc is polished to 0.6Ra.

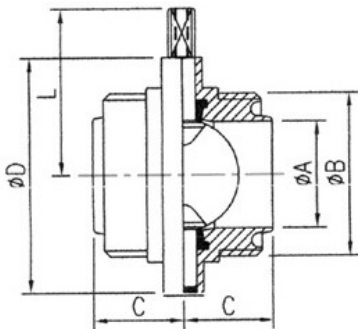


### Plain, Weld End Connections



Size		A	B	C	D	L	Code
Inch	mm	mm	mm	mm	mm	mm	
1"	25.4	22.1	25.4	34	79	61	VM2-10C
1.5"	38.1	34.6	38.1	38	85	64.3	VM2-15C
2"	50.8	47.5	50.8	40	105	74.3	VM2-20C
2.5"	65.3	60.2	63.5	40	112	77.6	VM2-25C
3"	76.2	72.2	76.2	41	125	84.3	VM2-30C
4"	101.6	97.6	101.6	44	157	101.6	VM2-40C
6"	152.4	146.8	152.4	43	214	138.9	VM2-60

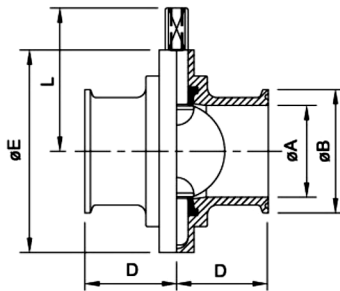
### RJT Male/Male End Connections



Size		A	B	C	D	L	Code
Inch	mm	mm	mm	mm	mm	mm	
1"	25.4	22.1	45.72 x 8T Whit	34	79	61	VM1-10C
1.5"	38.1	34.8	58.42 x 8T Whit	38	85	64.3	VM1-15C
2"	50.8	47.5	72.72 x 6T Whit	40	105	74.3	VM1-20C
2.5"	65.3	60.2	85.42 x 6T Whit	40	112	77.6	VM1-25C
3"	76.2	72.2	96.12 x 8T Whit	41	125	84.3	VM1-30C
4"	101.6	97.6	123.52 x 6T Whit	50	157	101.6	VM1-40C

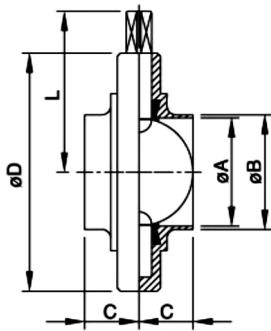
# Butterfly Valves

## BS4825 Clamp Connections



Size		A	B	D	E	L	Code
Inch	mm	mm	mm	mm	mm	mm	
1"	25.4	22.1	50.5	33	79	61	VM23-10
1.5"	38.1	34.6	50.5	33	85	64.3	VM23-15
2"	50.8	47.5	64.0	35	105	74.3	VM23-20
2.5"	65.3	60.2	77.5	35	112	77.6	VM23-25
3"	76.2	72.2	91.0	38	125	84.3	VM23-30
4"	101.6	97.6	119.0	38	157	101.7	VM23-40

## Metric Weld End Connections

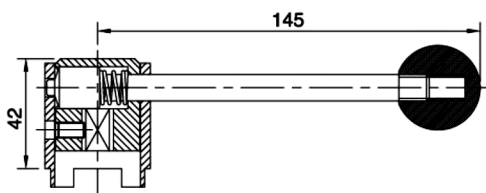


Size		A	B	C	D	L	Code
DN	mm	mm	mm	mm	mm	mm	
25	29	26	29	20	87	61	VM24-25
32	35	32	35	38	92	64.3	VM24-32
40	41	38	41	25	97	66.7	VM24-40
50	53	50	53	25	110	74.3	VM24-50
65	70	66	70	25	127	84.8	VM24-65
80	85	81	85	30	142	91.6	VM24-80
100	104	100	104	32	162	101.8	VM24-90

# Butterfly Valves

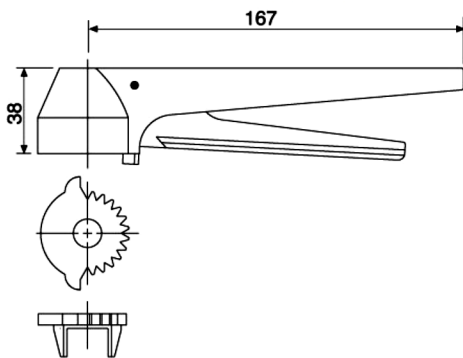
## Handle Options

### Stainless Steel 4 Position



Full Stainless Steel 304 handle with Phenolic knob. 4 Position pull handle locates firmly in place. Handle can be easily removed for maintenance or actuator fitting.

### Black Nylon Multi Position



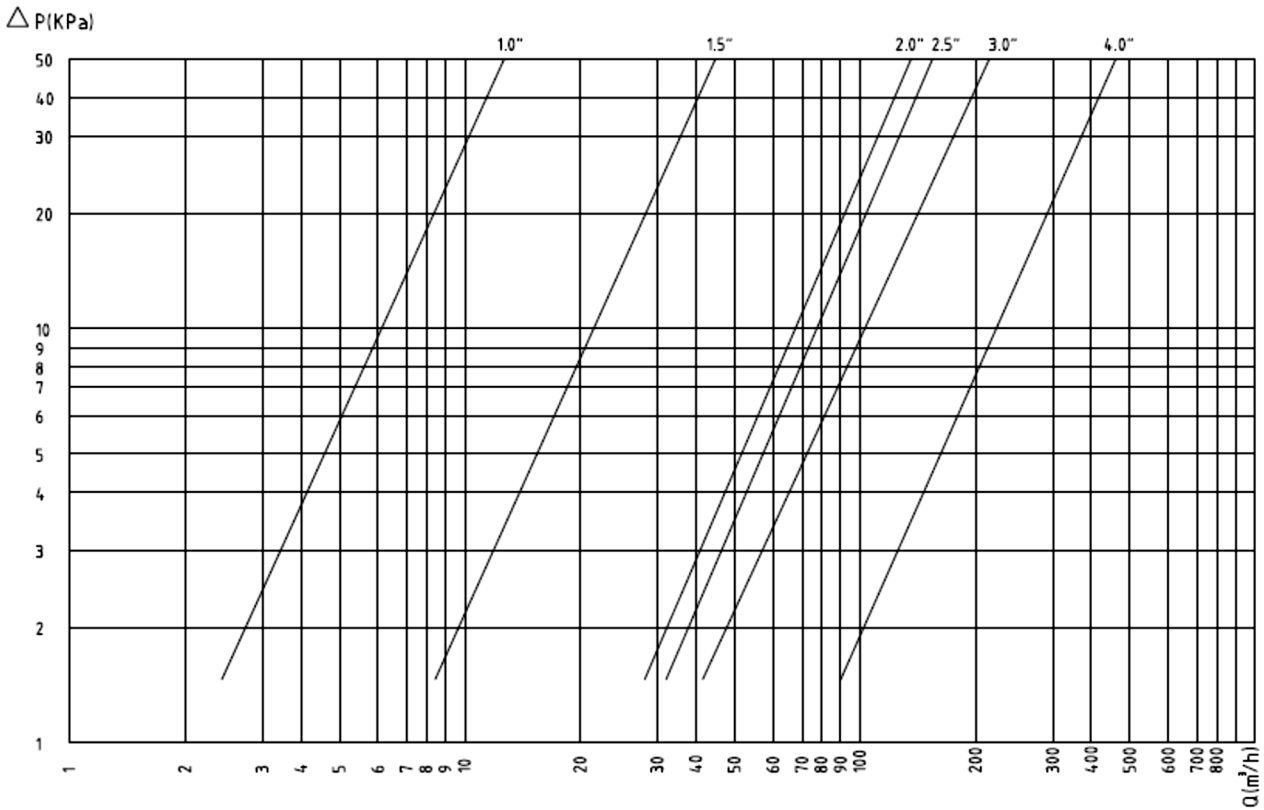
Nylon 6+ or Stainless Steel 304 gripper bar lever handle. 12 position notch plate to allow controlled positioning of valve. Handle can be modified to be lockable.

The valves can be supplied as manual with a choice of Plastic or Stainless Steel 12 position lever handle or Stainless Steel 4 position pull handle, alternatively they can be actuated with Air open / Spring close units as standard. Actuators are also available as double acting (air open/air close). Actuators can be supplied with a top box containing a solenoid and 2 x micro switches. The actuators can also be supplied with proximity switches if a top box is not required.

More information is available on our butterfly valve actuation.

# Butterfly Valves

## Capacity / Pressure drop Chart (Valve fully open)



Working Temperature & Pressure			
Working Pressure (Water at 20°C)	-0.9-10 Bar (-13—150 Psi)		
Working Temperatures  (Dependant on Seals)	EPDM ( Standard)	Silicone	Viton
	-5°C—135°C	-50°C—210°C	-10°C—210°C

Torque Operating Figures						
Torque for full open/close	1"	1.5"	2"	2.5"	3"	4"
Kgf-m	<1	<1	1.3	1.5	2.0	3.1
1 kgf-m = 9.8 N.m = 86.8 lbf-in—7.23 lbf-ft						

# Butterfly Valves

## Operating Manual

### **Instructions:**

- 1) The Butterfly Valve is designed to accommodate different standards and operates on low torque, it is suitable for use with different handles or actuators.
- 2) Always ensure the valve is set in the correct position.
- 3) The screws on the body must be locked.
- 4) Always ensure the handle is securely fitted prior to operation.
- 5) The valve surface needs to be kept clean at all times to avoid damage to the seal.
- 6) Always ensure the correct seal is fitted for your application, valve seals should be changed every six months .

### **Assembly:**

- 1) Weld end Valves must be dis-assembled prior to welding to avoid damage to the seal.
- 2) Inner surfaces must be kept clean during and after installation.
- 3) Ensure all screws are replaced and correctly tightened.
- 4) Always test handle operation before first use.