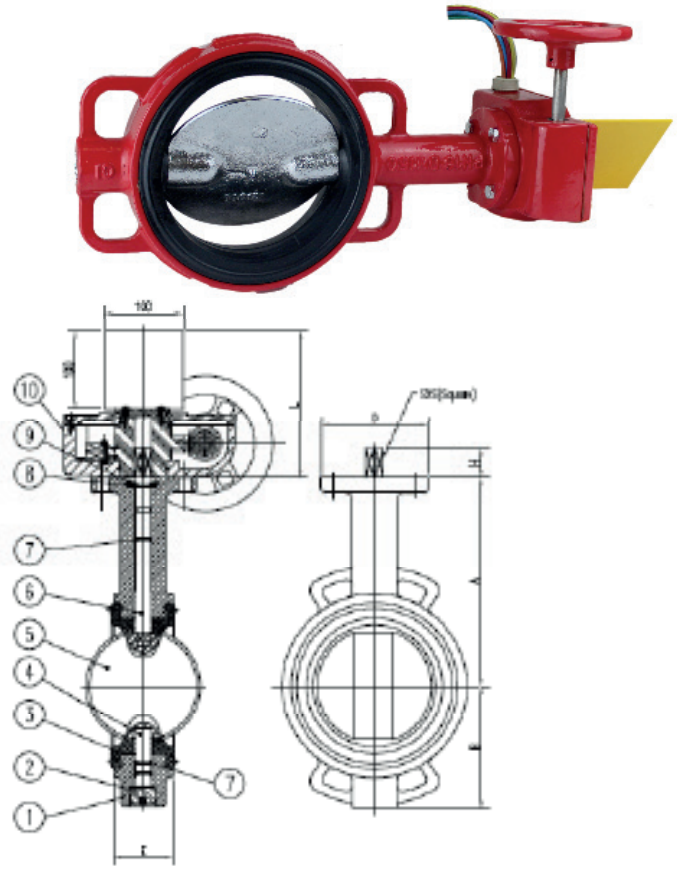
Reliable®

British Standard Wafer Butterfly Valve

REL-BFW-BS-PN16



Material List

No.	Component	Material
1	Body	Cast Iron ASTM A126 Class B
2	Shaft	Stainless Steel AISI 420
3	Disc	Stainless Steel A351 CF8
4	Disc	Bronze ASTM B62 C83600
5	Disc	Ductile Iron ASTM A536 65-45-12
6	Bushing	PTFE Commercial
7	Liner	EPDM/NBR/Viton Commercial
8	O-Ring	EPDM/NBR/Viton Commercial

Diagram

No.	Component	No.	Component
1	Body	6	Upper Shaft
2	Plug	7	O-Ring
3	Seat	8	Lock Plate
4	Bottom Shaft	9	Snap Ring
5	Disc	10	Gear Box

Working Pressure & Temperature

Max Working Pressure:	230PSI / 16 Bar
Working Temperature EPDM Liner:	-10°C to 120°C
Working Temperature NBR Liner:	-10°C to 82°C
Working Temperature Viton Liner:	-10°C to 150°C

Dimensions (mm)

Size	A	B	H	D	E	S X S	L	Top Flange	Weight
50 (2”)	161	80	30	Ø 90	43	11 x 11	155	F07	8.3kg
65 (2.5”)	175	91	30	Ø 90	45	11 x 11	155	F07	8.8kg
80 (3”)	181	98	30	Ø 90	46	11 x 11	155	F07	9.3kg
100 (4”)	200	115	30	Ø 90	51.5	14 x 14	155	F07	11.8kg
125 (5”)	215	134	30	Ø 90	56	14 x 14	155	F07	12.5kg
150 (6”)	225	138	30	Ø 90	56.5	17 x 17	155	F07	15.6kg
200 (8”)	241	174	30	Ø 126	60	17 x 17	170	F10	28.1kg
250 (10”)	296	198	30	Ø 126	68.5	22 x 22	170	F10	33kg
300 (12”)	336	234	30	Ø 126	79.5	22 x 22	170	F10	44.3kg

Ordering Information

Description	Size	Part Number
Butterfly Valve British Standard Wafer PN16 (RASCO)	50 (2”)	7V00000109
Butterfly Valve British Standard Wafer PN16 (RASCO)	76 (2.5”)	7V00000110
Butterfly Valve British Standard Wafer PN16 (RASCO)	80 (3”)	7V00000111
Butterfly Valve British Standard Wafer PN16 (RASCO)	100 (4”)	7V00000112
Butterfly Valve British Standard Wafer PN16 (RASCO)	165 (6”)	7V00000114
Butterfly Valve British Standard Wafer PN16 (RASCO)	200 (8”)	7V00000115
Butterfly Valve British Standard Wafer PN16 (RASCO)	250 (10”)	7V00000116
Butterfly Valve British Standard Wafer PN16 (RASCO)	300 (12”)	7V00000117

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RELIABLE FIRE SPRINKLER UK LTD

TECHNOLOGY • QUALITY • SERVICE

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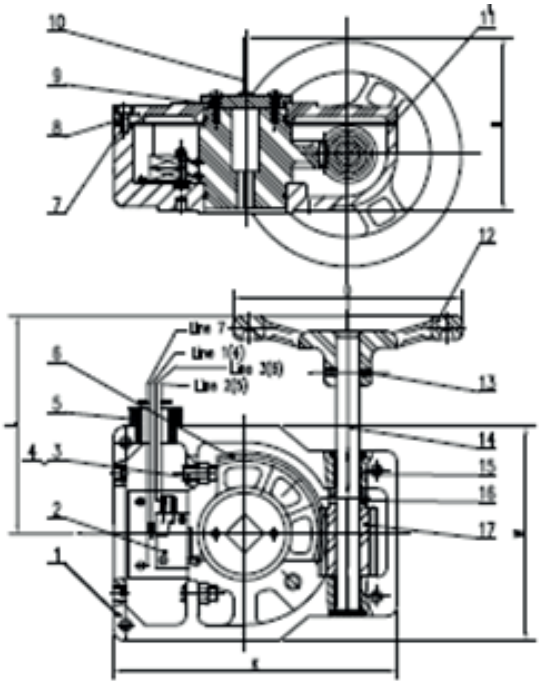
Material List

No.	Component	Material
1	Housing	Cast Iron A126 Class B
2	Cover	Cast Iron A126 Class B
3	Worm	Carbon Steel AISI 1045
4	Worm Gear	Ductile Iron A536 65-45-12
5	Shaft	Stainless Steel AISI 420
6	Hand-wheel	Cast Iron A126 Class B

Diagram

No.	Component	No.	Component
1	Body	10	Indicator
2	Switch	11	Gasket
3	Location Bolt	12	Hand-wheel
4	Nut	13	Pin
5	Plug	14	Stem
6	Worm Gear	15	Bushing
7	Bolt	16	Pin
8	Cover	17	Worm
9	Indicator Bolt		



Dimensions (mm)

DN	Part Number	H	D	L	K	W
50 -to- 150	S2000 - 40	100	120	115	145	110
200 -to- 300	S2000 - 50	115	170	162	200	165

Notes:
1. Designed and tested in accordance with EN593, BS5155, MSS SP-67
2. Flanges to EN1092-2 PN10/PN16, ANSI B16.1 Class 125
3. Top flange conforms to ISO5211-1.
4. Internally and externally liquid epoxy or fusion bonded epoxy powder coated (FBE).
5. Design & materials are subject to change without notice.

Design Requirements

The Reliable butterfly valve should be connected to the piping system with approved couplings or flanges. Flow may be from either direction, and the valves may be positioned in any direction. Reliable butterfly valves have been designed with a slow close hand-wheel operator, which effectively minimizes water hammer. These valves feature minimum flow restriction and pressure loss when in the fully open position.

Installation

When the valves are received from the manufacturer they should be handled carefully to avoid breakage and damage to the seating area. Before installation of the valves, clean piping, flange and coupling. When the valves close hard, it is usually due to debris lodged in the seating area. Often this may be corrected by backing off the hand-wheel and closing again. The valve should never be forced to seat by applying a wrench to the hand-wheel as this may distort the valve components or score the sealing surface. Care must be taken to align wafer valves correctly so that the disc operation to the fully open position will not be ob-structed. The use of excessive force to open or close the valve violates all warranties whether express or implied. The inlet and outlet pipe adjacent to the valve should be properly supported to prevent excessive stress on the valve body. The valve should not be used to force a pipeline into position as this may result in distortion of the valve body.

Care & Maintenance

Reliable butterfly valves require no regular maintenance, however, it is advisable to inspect and verify proper operation of the unit annually or in accordance with the requirements of the authority having jurisdiction. The inspection should include a visual check for leakage at the valve pipe connection and body to operator connection. Inspection and maintenance should be performed by qualified inspection service.

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Switch Installation & Maintenance

Reliable butterfly valves are provided with internal supervisor position switches. The tamper switch operates by a cam connected to the valve stem. The switch will change position and close with two (2) full turns of the hand-wheel from the fully open position.

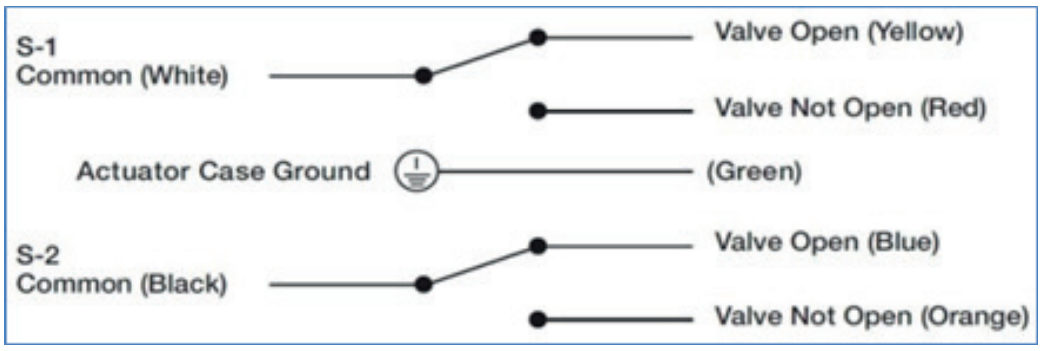
Switch 1

For connection to the supervisory circuit
Normally Open: 1 Yellow
Normally Closed: 1 Red
Common: 1 White

Switch 2

Auxiliary switch connected per authority
Normally Open: 1 Blue
Normally Closed: 1 Orange
Common: 1 Black
Ground Lead: 1 Green

Switch Wire Option



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