



Control Valves & Devices | Butterfly Valves | Wafer - UL, FM, CE & VdS | BVW-2



SPECIFICATIONS	
Models	BVW-2: Without switches
Sizes (nominal)	2"/DN50, 2-1/2"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250 & 12"/DN300
Approvals	
Max. working pressure	<ul style="list-style-type: none"> • 21 bar (300 psi): FM, CE & UL: all sizes, • 16 bar (232 psi): VdS
Test pressure	<ul style="list-style-type: none"> • Leak 1.1x working pressure • Shell 1.5x working pressure
Working temperature	0 °C - 80 °C
Connections	Wafer style, in accordance with: ASME B16.1 CL125, ASME B16.5 CL150, EN 1092 PN10/PN16, AS 2129 TABLE D/E, BS 10 TABLE D/E.
Operation	Gear operated
Finish	Epoxy coated ductile iron
Supervisory switches	<ul style="list-style-type: none"> • The model BVW-2 comes without supervisory switches.
Notes	<ul style="list-style-type: none"> • The valves are suitable for use outdoors. Some degradation of the painted/coated surfaces may occur (including rusting) which will not affect the performance of the valve. The UL listing specifically ensures the switch operation is not affected by outdoor conditions providing the proper installation instructions are followed. • Butterfly valves should be installed a reasonable distance from pumps, elbows, expanders, reducers, or similar devices. Typical piping practices suggest a minimum distance of five times the pipe diameter for general use.

Note: This document contains basic product information only. Information, photos and drawings are not contractually binding. In all cases, the manufacturer's full technical documentation remains the reference document. Note that certificates, test reports and approvals may be published in the OEM name. The contents of this publication are subject to modifications without notice. All rights reserved
 Fireking™ is a trademark of The Viking Corporation

Trusted above all.

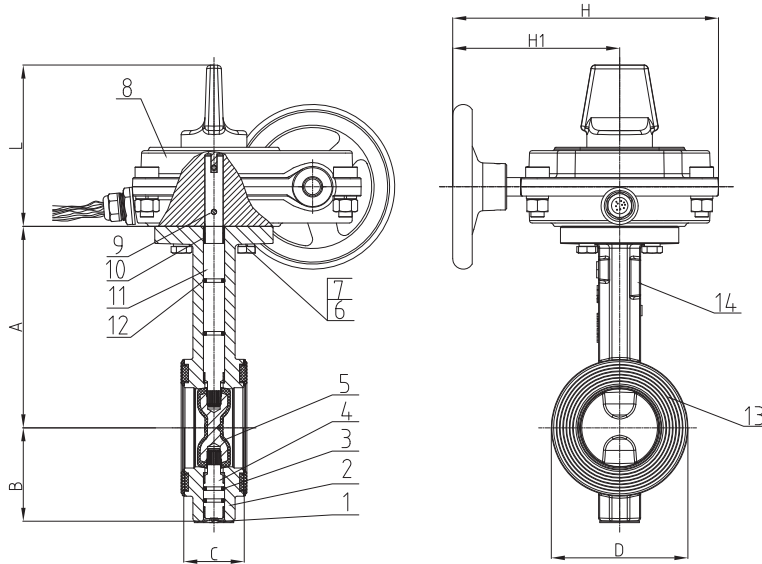
Viking S.A. (ed.) | 21, Z.I. Haneboesch | L-4562 Differdange/Niederborn | Luxembourg | vikinglux@viking-emea.com | www.viking-emea.com





Control Valves & Devices | Butterfly Valves | Wafer - UL, FM, CE & VdS | BVW-2

Dimensional drawing | BVW-2



Dimensions | BVW-2

Size	Dimensions						
	A	B	C	D	L	H1	H
2"/DN50	141	65	43±2	93	123	127	202
2-1/2"/DN65	153	71	46±2	104	123	127	202
3"/DN80	158	81	46±2	124	123	127	202
4"/DN100	176	95	52±2	150	123	127	202
5"/DN125	191	111	56±2	177	123	127	202
6"/DN150	203	133	56±2	205	123	127	202
8"/DN200	244	164	60±2	257	123	185	260
10"/DN250	273	196	68±2	316	123	185	260
12"/DN300	311	226	78±2	370	132	203	298

Materials | BVW-2

Item	Description	Material	Specification
1	Plug	EPDM	EPDM
2	Valve body	Ductile iron	EN-GJS-450-10
3	O-Ring	NBR	NBR
4	Stub shaft	Stainless steel	AISI 431
5	Disc	Ductile iron + EPDM	EN-GJS-450-10 + EPDM
6	Hex nut	Carbon steel	Zinc plated
7	Spring washer	Spring steel	Spring steel, 65 Mn
8	Signal gear box	Ductile iron	EN-GJS-450-10
9	Cylindrical pin	Stainless steel	AISI 304
10	Bushing	Stainless steel + PTFE	AISI 304 + PTFE
11	Drive shaft	Stainless steel	AISI 431
12	O-Ring	NBR	NBR
13	Gasket	EPDM	EPDM
14	Name plate	Stainless steel plate	

Part numbers & technical data | BVW-2

Size	BVW-2 Without supervisory switches		
	Approvals	Part number	Weight (kg)
2"/DN50	UL, FM, VdS, CE	BVW-2-050	8.0
2-1/2"/DN65	UL, FM, VdS, CE	BVW-2-065	8.6
3"/DN80	UL, FM, VdS, CE	BVW-2-080	9.2
4"/DN100	UL, FM, VdS, CE	BVW-2-100	10.7
5"/DN125	UL, FM, VdS, CE	BVW-2-125	13.7
6"/DN150	UL, FM, VdS, CE	BVW-2-150	18.1
8"/DN200	UL, FM, VdS, CE	BVW-2-200	22.7
10"/DN250	UL, FM, VdS, CE	BVW-2-250	33.7
12"/DN300	UL, FM, VdS, CE	BVW-2-300	48.6

Note: This document contains basic product information only. Information, photos and drawings are not contractually binding. In all cases, the manufacturer's full technical documentation remains the reference document. Note that certificates, test reports and approvals may be published in the OEM name. The contents of this publication are subject to modifications without notice. All rights reserved
 Fireking™ is a trademark of The Viking Corporation

Trusted above all.

Viking S.A. (ed.) | 21, Z.I. Haneboesch | L-4562 Differdange/Nieder Korn | Luxembourg | vikinglux@viking-emea.com | www.viking-emea.com





Control Valves & Devices | Butterfly Valves | Wafer - UL, FM, CE & VdS | BVW-2

Design requirements | BVW-2

The butterfly valve should be connected to the piping system with suitable flanges. Flow may be from either direction through the valve, and the valve may be positioned in any direction. The gearbox has been designed with a slow close handwheel operator that effectively minimizes water hammer during the opening or closing of valve during flow conditions. These valves feature minimum flow restriction and pressure loss when in the fully open position.

Installation | BVW-2

When the valves are received from Viking they should be handled carefully to avoid breakage and damage to the seating area. Before installation of the valve:

1. Check the valve pressure rating is compatible with service conditions.
2. Clean the piping and connecting flanges.
3. Position the valve centrally between mating flanges and install flange bolts and nuts such that the gasket seal seats properly on the flange surfaces.
4. The valve should be installed in an almost closed position.
5. Interference between the butterfly valve disc and the mating pipes should be avoided under all circumstances. Before tightening flange bolts, carefully open the valve to the open position and check for any disc interference.
6. Install bolts through the lugs and tighten carefully, ensuring even contact between the flange face and Elastomer. Forcing the wafer valves into a tight space will cause damage to the Elastomer and should be avoided.
7. To prevent distortion, properly support the piping adjacent to the inlet and outlet of the valve. Avoid damage and do not use the valve to force the piping into position.
8. The valve should never be forced to seat by applying excessive torque to the gearbox or through the use of a wrench. This may distort the valve components or score the sealing surface. The use of excessive force to open or close the valve violates all warranties whether express or implied.
9. Conduit and electrical connections to the supervisory/ auxiliary switches must be in accordance with the requirements of the Authority Having Jurisdiction.

Care & maintenance | BVW-2

Inspect and verify proper operation on an annual basis or according to the requirements of the Authority Having Jurisdiction. Check for leakage at the valve pipe connection and body-to-operator connection. Installation, inspection and maintenance should be performed by a qualified person certified by the Authority Having Jurisdiction. If the valve closes hard, check to make sure that there is no debris lodged in the waterway around the seating area. Backing off the handwheel and closing the valve again can often correct this condition. All replacement parts must be obtained from the manufacturer to assure proper operation of the valve and to maintain approval of the device

Note: This document contains basic product information only. Information, photos and drawings are not contractually binding. In all cases, the manufacturer's full technical documentation remains the reference document. Note that certificates, test reports and approvals may be published in the OEM name. The contents of this publication are subject to modifications without notice. All rights reserved
Fireking™ is a trademark of The Viking Corporation

Trusted above all.

Viking S.A. (ed.) | 21, Z.I. Haneboesch | L-4562 Differdange/Niederborn | Luxembourg | vikinglux@viking-emea.com | www.viking-emea.com

