



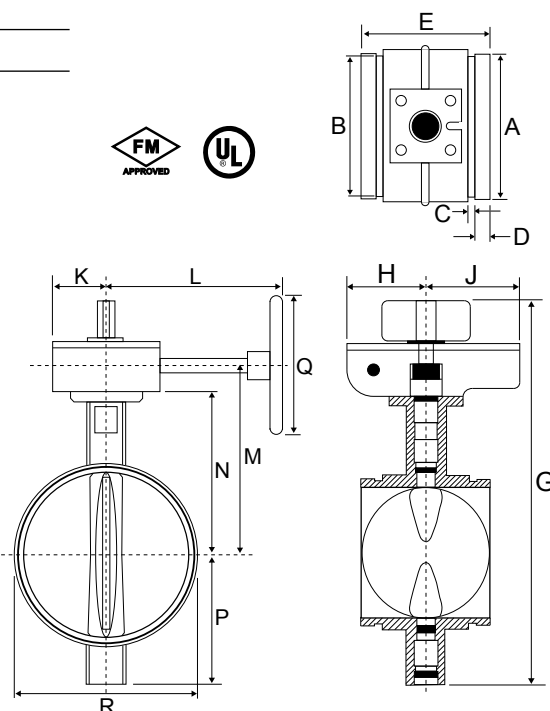
Butterfly Valve (Grooved)

GD4765

Control Valves

Technical Features

- **Sizes available (Nominal) :** DN65/2½", DN80/3", DN100/4", DN150/6" and DN200/8".
- **Pressure data :**
Working pressure: 20,7 bar (300 psi).
- **Finish :** Nylon Coated Ductile Iron.
- **Connections :** Grooved joint dimensions are made in accordance with ANSI/AWWA C606 (Ductile iron pipe and steel pipe) and metric pipe specifications.
- **Supervisory Switches :**
The gearbox is fitted with one internal supervisory position switch and one internal auxiliary switch.
Also available without supervisory switch.
- **Note :**
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.



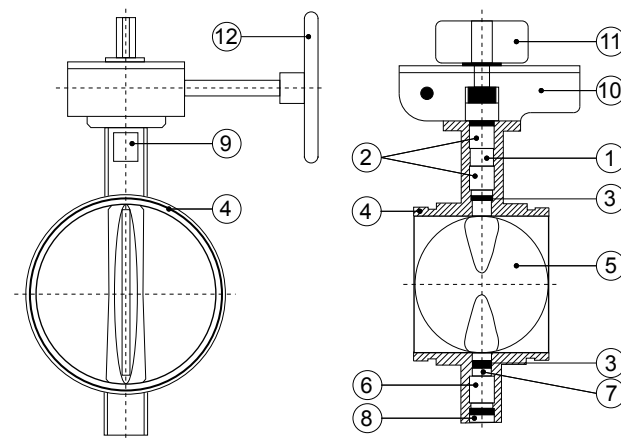
Butterfly Valve (Grooved) - GD4765

Physical Data

Nominal Pipe Size		Dimensions (mm / inch)																	Reference	Weight (kg / lbs)
mm	inch	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R			
65	2½"	73 / 2.88	69 / 2.72	8 / 0.31	16 / 0.63	98 / 3.85	61 / 2.42	303 / 11.94	74 / 2.91	90 / 3.54	54 / 2.13	148 / 5.82	144 / 5.67	106 / 4.19	83 / 3.25	150 / 5.9	88 / 3.46	GD47658025-73	10 / 22	
76.1	3"OD	76 / 3.00	72 / 2.84	8 / 0.31	16 / 0.63	98 / 3.85	61 / 2.42	303 / 11.94	74 / 2.91	90 / 3.54	54 / 2.13	148 / 5.82	144 / 5.67	106 / 4.19	83 / 3.25	150 / 5.9	88 / 3.46	GD47658025	10.4 / 22	
80	3"	89 / 3.50	85 / 3.34	8 / 0.31	16 / 0.63	98 / 3.85	73 / 2.86	317 / 12.48	74 / 2.91	90 / 3.54	54 / 2.13	148 / 5.82	151 / 5.94	113 / 4.44	90 / 3.54	150 / 5.9	101 / 3.97	GD47658030	10.4 / 23	
100	4"	114 / 4.50	110 / 4.33	10 / 0.38	16 / 0.63	116 / 4.56	98 / 3.84	360 / 14.18	74 / 2.91	90 / 3.54	54 / 2.13	194 / 7.64	173 / 6.31	135 / 5.33	110 / 4.35	150 / 5.9	128 / 5.03	GD47658040	12.7 / 28	
125	5"	141 / 5.56	137 / 5.39	10 / 0.38	16 / 0.63	149 / 5.86	122 / 4.79	385 / 15.17	74 / 2.91	90 / 3.54	54 / 2.13	194 / 7.64	186 / 7.32	148 / 5.83	123 / 4.84	150 / 5.9	159 / 6.27	GD47658050	14.1 / 31	
150	6"	168 / 6.63	164 / 6.45	10 / 0.38	16 / 0.63	149 / 5.86	146 / 5.73	446 / 17.54	74 / 2.91	90 / 3.54	54 / 2.13	194 / 7.64	219 / 8.62	181 / 7.11	151 / 5.93	150 / 5.9	184 / 7.25	GD47658060	18.6 / 41	
165.1	6"OD	165 / 6.51	161 / 6.32	10 / 0.38	16 / 0.63	149 / 5.86	146 / 5.73	446 / 17.54	74 / 2.91	90 / 3.54	54 / 2.13	194 / 7.64	219 / 8.62	181 / 7.11	151 / 5.93	150 / 5.9	184 / 7.25	GD47658060-165	18.6 / 41	
200	8"	219 / 8.63	214 / 8.44	11 / 0.44	19 / 0.75	134 / 5.26	196 / 7.71	493 / 19.42	74 / 2.91	90 / 3.54	54 / 2.13	201 / 7.91	249 / 9.80	204 / 8.05	174 / 6.87	250 / 9.8	235 / 9.25	GD47658080	24.1 / 53	

Butterfly Valve (Grooved) - GD4765 Materials

Item	Description	Material	Specification
1	Upper Stem	Stainless Steel	ASTM A583 Type 416
2	Upper Bushing	PTFE Bronze	Sintered on Steel
3	"O" Ring	Buna-N	
4	Body	Ductile Iron	ASTM A395 (Nylon Coating)
5	Disc	Ductile Iron	ASTM A395 (EPDM Encapsulation)
6	Lower Bushing	PTFE Bronze	Sintered on Steel
7	Lower Stem	Stainless Steel	ASTM A583 Type 416
8	Dust Plug	PVC	
9	Nameplate	Aluminium	
10	Gear Operator	Cast Iron & Steel	
11	Indicator Flag	Cast Iron	
12	Handwheel	Cast Iron	





Butterfly Valve (Grooved)

GD4765

Design requirements

The butterfly valve should be connected to the piping system with approved couplings or flanges available from Viking SupplyNet. 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

When the valves are received from Viking SupplyNet they should be handled carefully to avoid breakage and damage to the seating area. Before installation of the valve, clean the piping, and connecting flange or coupling. Lubricate the coupling gasket with approved lubricant, and place over the adjoining pipe or fitting. Position the valve against the mating pipe or fitting and slide the gasket into position on the valve such that the gasket seal seats properly on the valve and pipe/fitting according to the manufacturer's recommendations. Assemble the couplings according the manufacturer's recommendations. 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.

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. Care must be taken to align wafer valves correctly so that the disc operation to the fully open position will not be obstructed. The use of excessive force to open or close the valve violates all warranties whether express or implied.

Conduit and electrical connections to the supervisory/auxiliary switches must be in accordance with the requirements of the Authority Having Jurisdiction.

Care and Maintenance

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(s) 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.

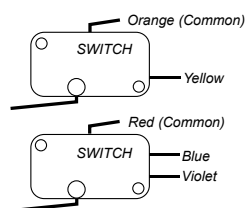
Butterfly Valve (Grooved) - GD4765

Wiring Instructions

The GD4765 butterfly valve comes complete with one internal supervisory position switch and one internal auxiliary switch.

The supervisory/auxiliary switches operate by a cam connected to the valve stem and are designed to notify in the case of valve closure. Please refer to the relevant installation standard and Authority Having Jurisdiction.

The switches will change position and close within two (2) full turns of the hand wheel from the fully open position.



Switch number	Wire	Wire color	Mode/Description
Supervisory switch #1	A	Yellow	Normally closed
Supervisory switch #1	B	Orange	Common
Auxiliary switch #2	C	Blue	Normally open
Auxiliary switch #2	D	Violet	Normally closed
Auxiliary switch #2	E	Red	Common
	F	Green	Ground lead

Notes : Connection to power limited circuitry is required. Switch rating is limited to 11amps @ 125 VAC 60Hz or 1 amp @ 28 VDC

