

**ECONOMICAL CAST IRON BUTTERFLY VALVES
MANUAL, PNEUMATIC & ELECTRIC
EPDM BONDED SEAT**

**Series
BFCK**

General Description

The BFCK range of Wafer Style Cast Iron Butterfly Valves are available with pneumatic, electric or manual actuation. Seats are standard in EPDM and bonded to the body. Applications include irrigation, water trucks, vacuum services and general industry. Maximum working pressure 16 bar (230 psi)

NOMINAL DIAMETER		OPERATION	PART NUMBER
MANUAL			
50mm	(2")	level handle	BFCK50W16-L-S-E
65mm	(2 1/2")	level handle	BFCK65W16-L-S-E
80mm	(3")	level handle	BFCK80W16-L-S-E
100mm	(4")	level handle	BFCK100W16-L-S-E
125mm	(5")	level handle	BFCK125W16-L-S-E
150mm	(6")	level handle	BFCK150W16-L-S-E
200mm	(8")	gear box handwheel	BFCK200W16-L-S-E
250mm	(10")	gear box handwheel	BFCK250W16-L-S-E
300mm	(12")	gear box handwheel	BFCK300W16-L-S-E



MANUAL VALVE

NOMINAL DIAMETER		OPERATION	PART NUMBER	ACTUATOR
PNEUMATIC				
50mm	(2")	double acting	BFCK50W16-DA-S-E	DA63
65mm	(2 1/2")	double acting	BFCK65W16-DA-S-E	DA63
80mm	(3")	double acting	BFCK80W16-DA-S-E	DA63
100mm	(4")	double acting	BFCK100W16-DA-S-E	DA63
125mm	(5")	double acting	BFCK125W16-DA-S-E	DA75
150mm	(6")	double acting	BFCK150W16-DA-S-E	DA100
200mm	(8")	double acting	BFCK200W16-DA-S-E	DA115
250mm	(10")	double acting	BFCK250W16-DA-S-E	DA125
300mm	(12")	double acting	BFCK300W16-DA-S-E	DA160
ELECTRIC				
50mm	(2")	 single acting normally closed 	BFCK50W16-SA-S-E	SR63
65mm	(2 1/2")		BFCK65W16-SA-S-E	SR63
80mm	(3")		BFCK80W16-SA-S-E	SR75
100mm	(4")		BFCK100W16-SA-S-E	SR85
125mm	(5")		BFCK125W16-SA-S-E	SR100
150mm	(6")		BFCK150W16-SA-S-E	SR115
200mm	(8")		BFCK200W16-SA-S-E	SR125
250mm	(10")		BFCK250W16-SA-S-E	SR160
300mm	(12")		BFCK300W16-SA-S-E	SR200



PNEUMATIC OPERATION

Pneumatic & Electric Actuators are sized to suit 16 bar water (wet service). For dry service such as powders, cement, air or vacuum consult the manufacturer or your distributor.

NOMINAL DIAMETER		OPERATION	PART NUMBER	ACTUATOR
50mm	(2")	motorised	BFCK50W16-E*-S-E	OM-1
65mm	(2 1/2")	motorised	BFCK65W16-E*-S-E	OM-1
80mm	(3")	motorised	BFCK80W16-E*-S-E	OM-1
100mm	(4")	motorised	BFCK100W16-E*-S-E	OM-1
125mm	(5")	motorised	BFCK125W16-E*-S-E	OM-A
150mm	(6")	motorised	BFCK150W16-E*-S-E	OM-2
200mm	(8")	motorised	BFCK200W16-E*-S-E	OM-3
250mm	(10")	motorised	BFCK250W16-E*-S-E	OM-4
300mm	(12")	motorised	BFCK300W16-E*-S-E	OM-5



ELECTRIC OPERATION

Refer to brochure 'OM' for more details on the electric actuator.

*Voltage Code: 240V=1, 110V=2, 24VAC=5, 24VDC=8, 12VDC=7, 415V=11

IMPORTANT - Chemical Resistance

For specific information on chemical resistance of valve components to various Liquids and Gases, refer to the manufacturer or your distributor.

See over page for applications warning. It is the responsibility of the user to determine suitability of liner and body material to the application.

CAST IRON BUTTERFLY VALVE WITH PNEUMATIC OR ELECTRIC ACTUATION

Series BFCK

Technical Specifications:

Pressure - 16 bar max

Body - Cast Iron, ASTM A126 Class B

Stem - 316 Stainless steel ASTM A276 Type 316

Disc - 316 Stainless steel ASTM A351 CF8M

Seat - EPDM - Bonded to Body -40°C + 120°C. Suitable for general applications. Not suitable for hydrocarbon service.

Pneumatic Actuator:

Series DA/SA rack and pinion style. Double acting or spring return. Aluminium body with NBR seals. End of travel integral adjustment. Direct pad mount - Namur interface. Optional with Namur direct mounted solenoid, flow controls, silencers and LED indicator plugs, 5/2 spring return or double solenoid. Optional microswitch box.

Electric Actuator:

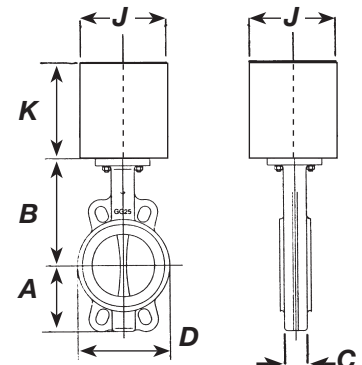
Series OM (see separate OM data sheet). Heavy duty electric actuators IP67 with manual override, position indicator and internal micro-switch for end of travel indication.

Optional Feature: Voltage free micro switches for end of stroke position feedback.

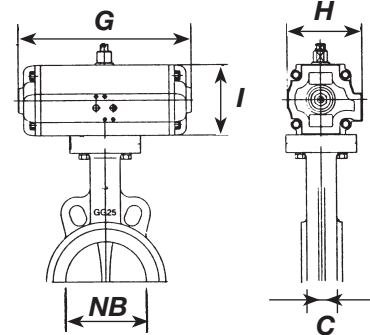
DIMENSIONS: WAFER STYLE

Indicative only (for exact dimensions contact Process Systems)

Electric Actuator



Pneumatic Actuator



Size NB Nominal Bore	A	B	C	D	G DA	G SR	H DA	H SR	I DA	I SR	J	K	ELECTRIC ACTUATOR
50mm	74	130	43	95	162	162	80	80	100	100	106	155	OM-1
65mm	79	146	46	110	162	162	80	80	100	100	106	155	
80	85	154	46	130	162	207	80	95	100	117	106	155	
100	101	167	52	150	162	238	80	106	100	179	106	155	
125	112	180	56	185	207	272	95	123	117	142	106	200	OM-A
150	125	195	56	210	272	323	123	137	142	172	106	200	OM-2
200	156	230	60	265	328	366	137	148	172	184	130	255	OM-3
250	192	270	68	320	366	522	148	187	184	218	234	315	OM-4
300	242	300	78	375	522	575	187	218	218	269	234	315	OM-5

Refer to brochure 'OM' for more details on the electric actuator.

ACTUATOR MODEL	Torque Nm	Mounting (ISO 5211)	Power (Watts)	240 AC	110 AC	24 AC	24 DC	12 DC	Manual Override	Hand wheel	Visual Indicator	Time Thro - 90 deg (AC)	Time Thro - 90 deg (DC)
OM-1	35	F03/F05	10W	✓	✓	✓	✓	✓	✓	—	✓	13 sec.	15 sec.
OM-AL	50	F07	10W	✓	✓	✓	✓	✓	✓	—	✓	24 sec.	24 sec.
OM-2	90	F07	25W	✓	✓	✓	✓	✓	—	✓	✓	17 sec.	15 sec.
OM-3	150	F07	30W	✓	✓	✓	✓	✓	—	✓	✓	26 sec.	22 sec.
OM-4	400	F10	40W	✓	✓	✓	✓	✓	—	✓	✓	18 sec.	16 sec.
OM-5	500	F10	60W	✓	✓	✓	✓	✓	—	✓	✓	25 sec.	22 sec.
OM-6	650	F10	80W	✓	✓	✓	✓	✓	—	✓	✓	31 sec.	28 sec.

WARNING

These products are intended for use in industrial applications only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data' and in our individual 'Series' data sheets. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult the manufacturer. Through misuse, age, or malfunction, components used in industrial valve applications can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in industrial valve applications and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to the user in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings or specifications found in instruction sheets or labels packed or attached and shipped with the products.

Our policy is one of continuous research and development. We therefore reserve the right to amend without notice the specifications given in this document or our individual 'Series' data sheets.

WARRANTY INFORMATION

Series BFCK distributed by Your Distributor are warranted by the manufacturer to be free of defects in material and workmanship for a period of 1 year from the date of purchase or as the manufacturer warrants. Obligation under this warranty is limited to repair or replacement of the defective product or refund of the purchase price paid solely at the discretion of the manufacturer and provided such defective product is returned to the manufacturer freight prepaid and upon examination by the manufacturer such product is found defective. This warranty shall be void in the event that the product has been subject to misuse, misapplication, improper maintenance, modification or tampering. This warranty is expressed in lieu of all other warranties, expressed or implied from the manufacturer representatives or employees. The manufacturer reserves the right to change Valve and Brochure specifications without notice.