

ELECTRIC ACTUATED BUTTERFLY VALVES



WATERMARK APPROVED BUTTERFLY VALVES WITH ELECTRIC ACTUATOR

FUNCTION AND FEATURES

■ **Compact Size**

Ultra small form combined with a powerful motor, position indicator and manual override.

■ **Robust Construction**

Epoxy coated cast iron valve with IP67 aluminium or PC+PET actuator housing.

■ **Wafer or Lugged Valve**

Available in lugged Table 'E', or wafer design which suits multiple flange tables.

■ **Inbuilt Heater**

Anti-condensation heater offered as standard to maximise service life.

■ **End of stroke switches**

Two SPDT volt free end of travel confirmation switches included as standard.

■ **Range of actuator options**

Various voltages, high speed, smart control, WiFi, failsafe, timer control, and more available.

PRODUCT SPECIFICATIONS

The Arita butterfly valve is a soft sealing valve for installation with flanges drilled in accordance with AS 2129 Table E, available in sizes 50mm through to 300mm. The Arita butterfly valves are a high performance valve, designed for a long service life.

The butterfly valves are fitted with the TCN series quarter turn electric actuators which are available in either a basic or smart model.

The **basic** model is constructed with internal mechanical cams to stop the motor in the required position. It offers a number of standard features such as a brushless motor, overload protection, IP67 rated housing, dome style visual indicator, manual override, end of stroke switches, anti-condensation heater, and a variety of voltages and wiring configurations

The **smart** model is fully electronic using magnetic positioning and operates using inbuilt firmware. In addition to the standard features, the smart model features an OLED screen which can display position indication, failure reports, along with menu operation and push button control to allow numerous advanced operations such as custom positions, speed control, local manual control, and more.

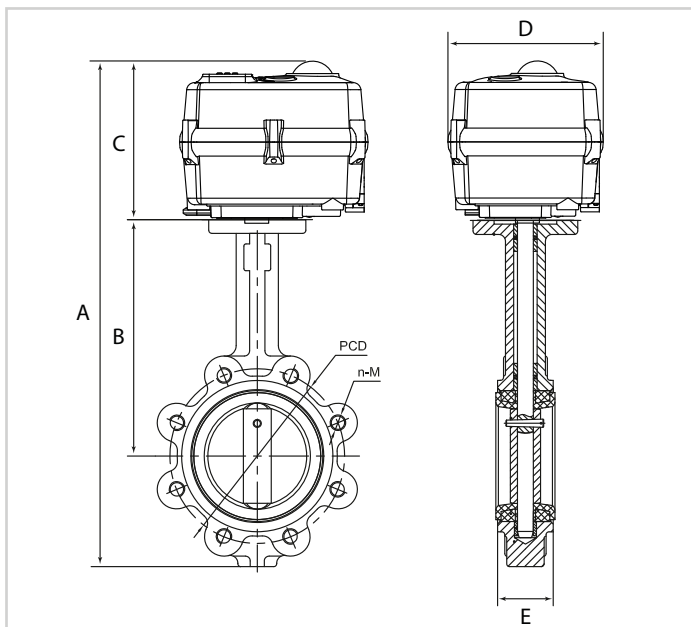
OLED screen on smart model features on function C, T, B, R & D. See order code table.

ORDER CODES

BLUG	-	100	-	11	-	N	-	-	-	-	-
Type										Option *	
BLUG	Lugged									H	High speed
BFLY	Wafer									KT	Fail safe battery
Size / Actuator *											Voltage *
050 - 05	(50mm)										12VDC
065 - 05	(65mm)										24VDC
080 - 05	(80mm)										24VAC
100 - 11	(100mm)										110VAC
125 - 11	(125mm)										230VAC
150 - 20	(150mm)										
200 - 40	(200mm)										
										Function	
										N	Basic On / Off
										C	Smart On / Off
										T	Modulating
										B	BUS
										R	Wireless
										D	Timer

* not all options and voltages available on all models. Failsafe will reduce torque rating and may change actuator selection. Please check with our sales team.

DIAGRAM



PART	SPECIFICATION
BODY	CAST IRON
DISC	SS 316
SHAFT	SS 416
BUSHING	PTFE
SEAT / O-RING	EPDM
NUTS / BOLTS	SS 304
ACTUATOR	ALUMINIUM (TCN SERIES) PC+PET (TCR SERIES)
PRESSURE	1,600KPA
TEMPERATURE	-20°C - 110°C

The butterfly valves feature a push in style liner which allows it to be replaced. Due to this, they are not recommended for end of line service where only one side of the liner is supported by the pipe flange.

SIZE	ACTUATOR	A	B	C	D	E	PCD	n-M
50MM	TCN-05	362	161	121	42	42	114	4-M16
65MM	TCN-05	385	175	121	45	45	127	4-M16
80MM	TCN-05	397	181	121	45	45	146	4-M16
100MM	TCN-11	436	200	122	51	51	178	8-M16
125MM	TCN-11	462	213	122	54.5	54.5	210	8-M16
150MM	TCR-200	540	226	170	54.5	54.5	235	8-M20
200MM	TCR-400	605	260	170	59.6	59.6	292	8-M20

Larger butterfly valves available upon request



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