

# Serie F.200



## BUTTERFLY VALVE FLANGED

F.240



The shut-off flanged butterfly valves in Series 200 are equipped with a centred disc and flanged type body, and are made of ductile iron, manufactured in accordance with severe product norms and in conformity to EN ISO 9001. These valves are suitable for heating and conditioning (HVAC), water treatment and water distribution, industrial applications, agricultural purposes for compressed air, gas, oils and hydrocarbons

**YES:** for in line and end of line installation with frequent actuation; the integrated support, in accordance with ISO 5211, allows easy mounting of a wide range of actuators and drives. They are suitable for choking and regulating the flow.

**NO:** for steam.

### Application fields



WATER



CONDITIONING



INDUSTRY



DRINKING WATER



GAS



HEATING



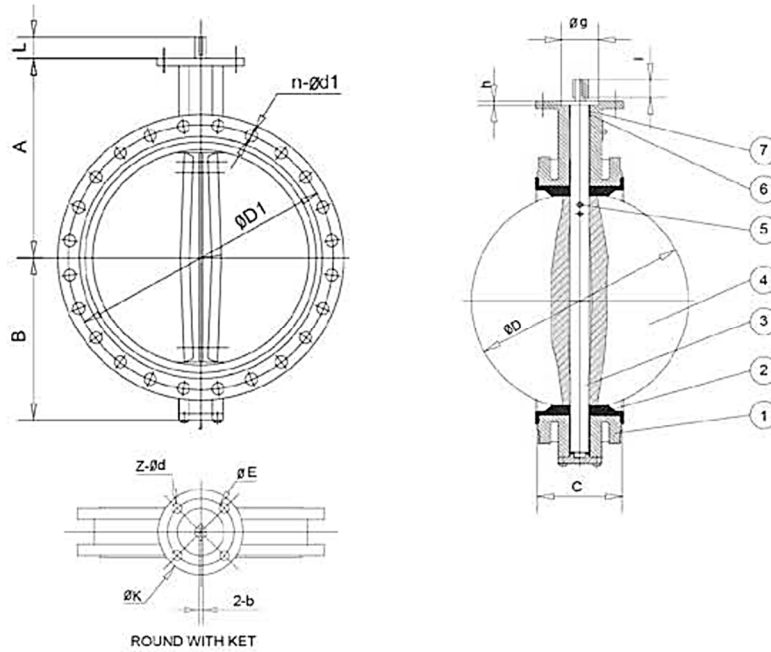
MARINE



FIRE FIGHTING



[www.flowsureglobal.com.tr](http://www.flowsureglobal.com.tr)



Materials

Component	Material
1 Body	Ductile Iron
2 Seat	NBR, EPDM
3 Shaft	Stainless steel
4 Disc	Ductile Iron + Ni
5 Pin	Stainless steel
6 Bushing	PTFE, Bronze
7 O-Ring	NBR, EPDM

Dimensions (mm)

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
A	120	130	145	155	170	190	205	235	280	310	340	375	430	500	560	620	665	735
B	83	93	100	114	125	143	170	198	223	279	300	345	355	410	478	529	584	657
C	108	112	114	127	140	140	152	165	178	190	216	222	229	267	292	318	330	410
D	52.9	64.5	78.8	104	123.3	155.6	202.5	250.5	301.6	333.3	389.6	440.5	491.6	592.5	695	794.7	864.7	965
L	32	32	32	32	32	32	45	45	45	45	51.2/72	51.2/72	52.7/77.5	70.2/80	66/82	66/82	118	141
bxl	3x16	3x16	3x16	5x19	5x19	5x19	5x19	8x28	8x28	8x28	10x50	10x50	10x50	2-16x60	2-18x63	2-18x63	2-20x100	2-22x140
K	70	70	70	90	90	90	125	125	140	140	175	175	175	210	300	300	300	300
E	50	50	50	70	70	70	102	102	102	102	140	140	140	165	254	254	254	254
z-d	4-7	4-7	4-7	4-9	4-9	4-9	4-12	4-12	4-12	4-12	4-18	4-18	4-18	4-23	8-18	8-18	8-18	8-18
g	35	35	35	55	55	55	70	70	70	70	100	100	100	130	200	200	200	200
h	3	3	3	3	3	3	3.5	3.5	3.5	3.5	4	4	4	5	5.5	5.5	5.5	5.5
D1	125	145	160	180	210	240	295	350/355	400/410	460/470	515/525	565/585	620/650	725/770	840	950	1050	1160/1170
n-d1	4-18	4-18	4/8-18	8-18	8-18	8-23	8/12-23	12-23/27	12-23/27	16-23/27	16-27/30	20-27/30	20-27/33	20-30/36	24-30/36	24-33/39	28-33/39	28-36/42

Certificates



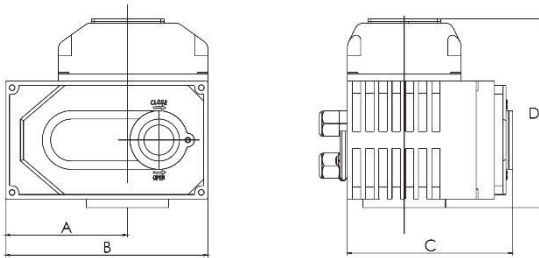
Standards

Design : TS EN 593  
 Face to face : BS5155  
 Tests : TS EN 12266-1  
 Nominal Pressure: PN16  
 Temperature: -10 ~ 110°C

Accessories

- Gearbox
- Actuator

Actuator for butterfly valve

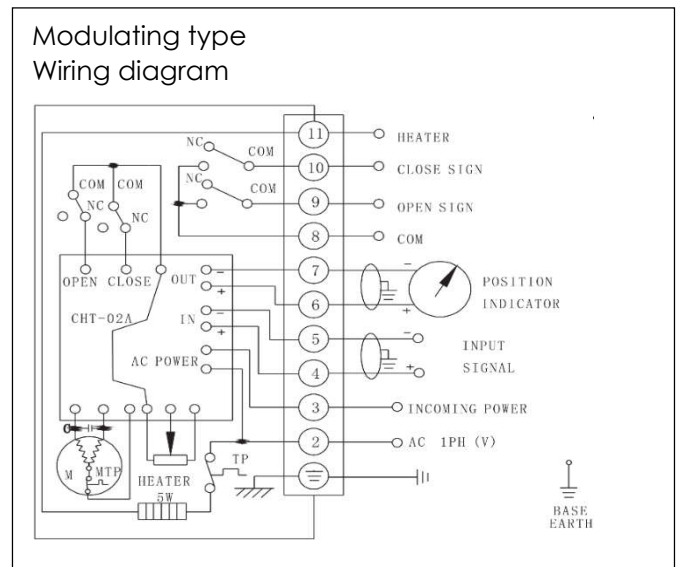
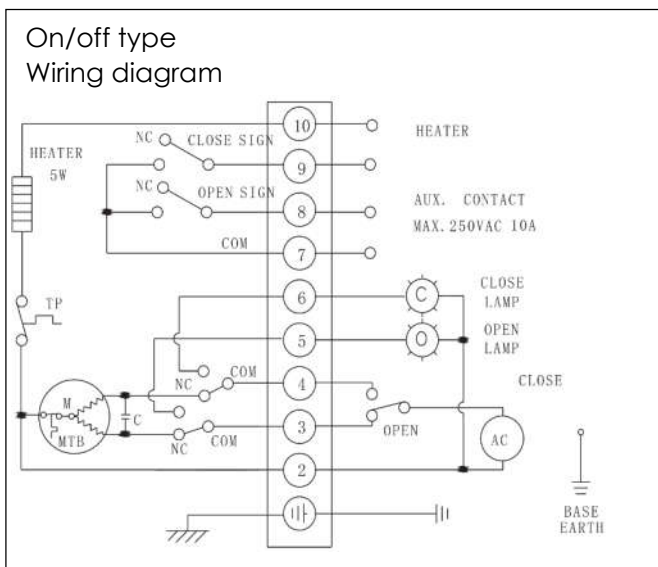


Specification

Shell	Aluminium alloy shell, Enclosure: IP67, NEMA4 and 6 (Option: IP68)
Power	Single phase 220V AC (Option: 24V DC)
Motor	Squirrel-cage Asynchronous Motor
Limit switch	2xOpen / Close, SPDT, 250V AC 10A
Auxiliary switch	2xOpen / Close, SPDT, 250V AC 10A
Stall protection	Internal placed thermal protection
Indicator	Continuous situation indication
Manual operation	Mechanical lever (Handwheel is optional)
External coating	Dry powder, Epoxy polyester

Performance Parameter

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
A (mm)	74	89	89	89	107	107	152	152	152	152	391	391	391	391
B (mm)	123	160	160	160	189	189	268	268	268	268	508	508	508	508
C (mm)	100	121	121	121	145	145	205	205	205	205	285	285	285	285
D (mm)	113	121	121	121	129	129	164	164	164	164	368	368	368	368
Operating time (s)	20	30	30	30	30	40	30	40	40	40	60	60	120	200
Motor (W)	8	10	10	10	15	15	60	60	90	90	90	90	90	90
Ampere (220V-50Hz)	0.25	0.24	0.24	0.26	0.4	0.42	0.34	0.35	0.56	0.59	0.6	0.62	0.64	0.66



\* Note 1: Heater is an option

\* Note 2: 24V DC have different wiring diagram

## Instruction and Recommendations

### STORING AND TRANSPORT

- Keep in dry and closed place.
- While stored, the disc must be partially open.
- Avoid knocks, take special care to protect lever, hand wheel, gear boxes/actuators.
- Do not use lever or hand wheel to lift the valve.

### RECOMMENDATIONS

Before carrying out maintenance or dismantling the valve: be sure that the pipes, valves and fluids have cooled down, that the pressure has decreased, and that the lines and pipes have been drained in case of toxic, corrosive, inflammable or caustic liquids.

Temperatures above 50°C and below 0°C might cause damage to people.

### INSTALLATION

- Handle with care
- Do not weld the flanges to the piping after installing the valve
- Water hammers might cause damage and ruptures. Inclination, twisting and misalignments of the piping may subject the valve to stress, once it has been installed. It is recommended that elastic joints be used, in order to reduce these effects as much as possible. The disc must be partially open
- The mounting can be made with the stem axis in a horizontal or vertical position. In case the fluid contains suspended solid particles (for example, sand, impurities, etc.) or solid particles that may leave deposits, it is recommended that the valve be installed with its axis horizontal, and in such a way that the bottom end of the disc opens in the direction of flow.
- Carefully clean the contact surface.
- As far as possible, avoid flat flanges for welding (EN 1092 01 type); if these flanges are used, ensure perfect centring between the flange and valve, and be sure to weld exactly edgewise to the flange. Do not let protrusions or sharp edges on the piping cause damage to the rubber surface of the valve.
- Turbulences of the fluid might increase erosion and reduce the life-cycle of the valve. Install the valve at a distance of at least 1 x DN upstream, and at a distance of 2-3 x DN downstream, away from fittings or bends.