



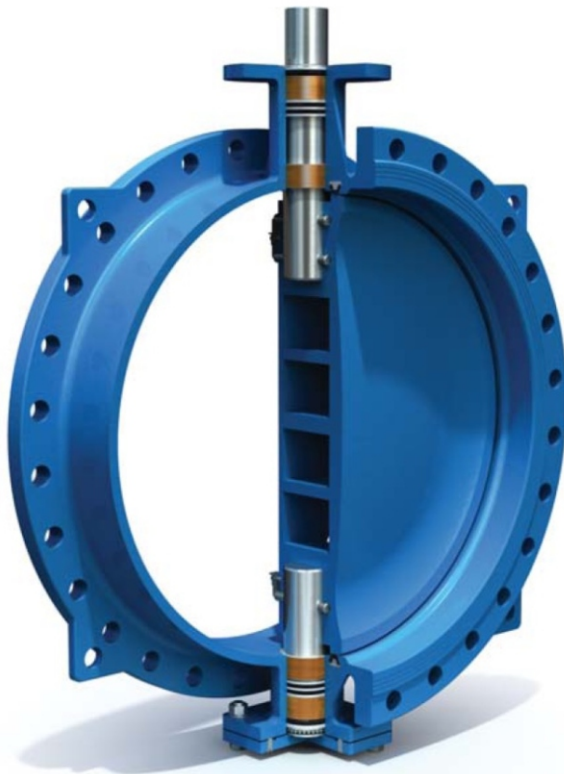
ARV  
FLOW CONTROL

DOUBLE FLANGE RUBBER SEAL BUTTERFLY VALVE

# Products Introduction

## Butterfly Valve (Standard Body)





## Design

**Design standard: EN593**

**Double eccentric, Double flanged type**

**EPDM sealing ring**

**Range: DN300 - DN1600**

**Pressure Rate: PN10, PN16**

**Face to Face: EN 558-1 Series13 and Series14**

**Suitable Mediums: Fresh Water, Sewage, Sea, Water, Air, Oil, Acids, Alkalis, Salts, etc**

**Pressure Test: According to 12266/A**

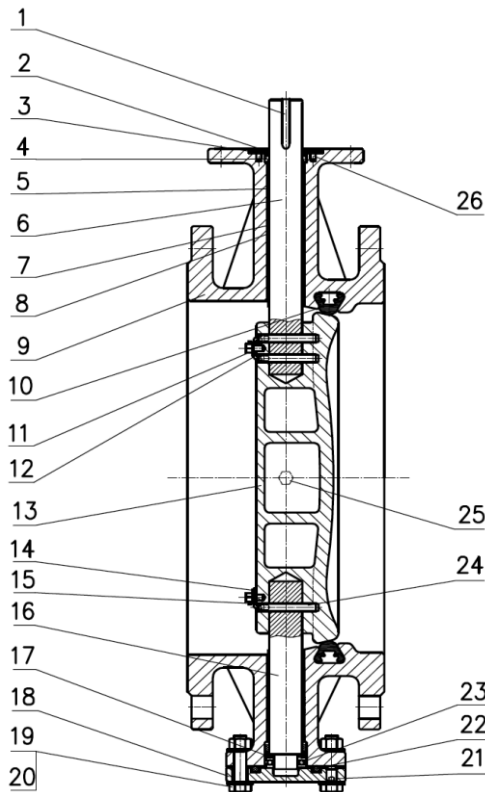
**Working Temperature: -10 °C - +120 °C**

**Body: Made of ductile iron GGG50/GJS400**

**Coating: Fusion bonded epoxy coating  
min.thickness ≥ 250micron**

**ISO 5211 top flange adaptor for actuator**

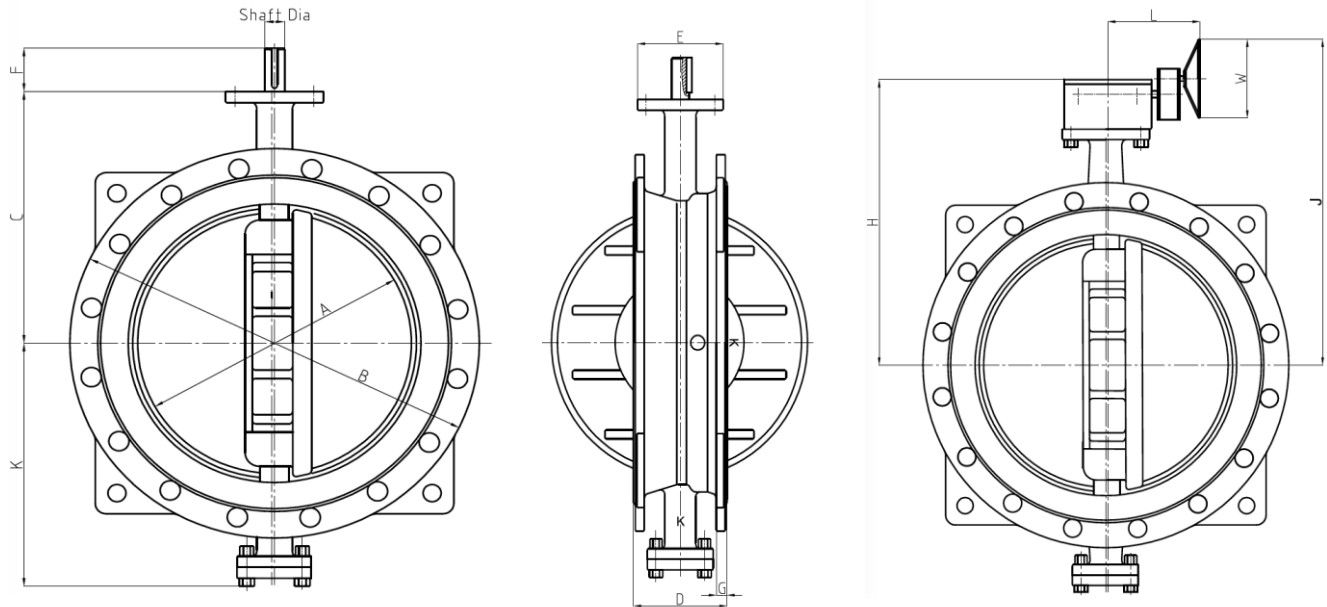
**Double eccentric design = long using life ≥ 30,000 operating life.**



### Component List

No.	Parts name	Material	Standard
1	Key	Carbon Steel	AISI 1045
2	Retaining Plate	Carbonsteel + Zinc	ASTM A570+Zinc
3	Sub-back up Ring	PTFE	PTFE
4	O-Ring	NBR	Commercial
5	Bush	1020+PTFE	AISI 1020 + PTFE
6	Main Shaft	Stainless Steel	AISI 420
7	O-Ring	NBR	Commercial
8	Back up ring	PTFE	PTFE
9	Body	Ductile Iron	ASTM A536
10	Seat Ring (Seal)	EPDM	Standard
11	Bolt	Stainless Steel	AISI 304
12	S-Washer	Stainless Steel	AISI 304
13	Disc	Ductile Iron	ASTM A536
14	T_Washer	Stainless Steel	AISI 304
15	Tab-Washer	Stainless Steel	AISI 304
16	Lower Shaft	Stainless Steel	AISI 304
17	Adjustable Washer	Stainless Steel	AISI 304
18	Botton Cover	Ductile Iron	ASTM A536
19	Bolt	Stainless Steel	AISI 304
20	Washer	Stainless Steel	AISI 304
21	Set Screw	Stainless Steel	AISI 304
22	O-Ring	NBR	Commercial
23	Thust Bearing	Bearing Steel	AISI E52100
24	Straight Pin	Stainless Steel	AISI 420
25	Plug	Brass	C28000
26	Sunk Screw	Stainless Steel	AISI 304

## Dimension



### Dimensions

unit:mm

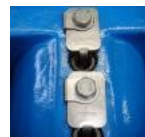
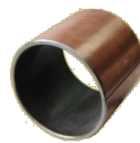
DN	A	B		C	D	E	F	G		K	Q	Shaft Dia	J	H	L	W
		PN10	PN16					PN10	PN16							
350	333	505	520	330	190	150	50	24.5	26.5	311	291	35	528	425	260	300
400	383	565	580	365	216	150	73	24.5	28	353	335	35	579	460	260	300
450	435	615	615	400	222	150	75	25.5	30	377	391	45	659	495	310	300
500	485	670	715	445	229	210	75	26.5	31.5	421	443	50	712	555	320	300
600	584	780	840	485	267	210	75	30	36	530	541	50	752	595	320	300
700	678	895	910	564	292	300	105	32.5	39.5	608	634	75	883	679	390	400
800	780	1015	1025	624	318	300	105	35	43	672	736	75	943	739	390	400
900	880	1125		670	330	300	105	37.5	46.5	690	841	75	1012	785	390	400
1000	980	1255		755	410	350	118	40	50	722	916	100	1053	951	490	400
1200	1180	1485		880	470	350	122	40	57	840	1107	120	1171	1061	609	400
1400	1371	1685		950	530	415	145	46	60	1000	1297	150	1340	1130	629	600
1600	1568	1915		1130	600	415	150	49		1118	1486	150	1520	1310	629	600

## Seal design

- A casting forming seal groove in the body.
- The valve body is treated by shot blasting and wholly fusion bonded epoxy coating including the groove.
- A complete EPDM seal ring is implanted into the groove.
- The epoxy resin will be injected into the groove from the bolt hole on the back of the body to lock the seal ring.
- After the solidification, the fusion bonded epoxy resin will fulfill the dovetail groove to lock and fix the seal ring.
- The back of seal will not have rust.
- Self-lock without fasteners prevents possible losing problem.
- The seal ring could be maintained on line.

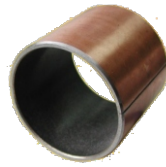


## Upper spindle design



- O-Rings on the stem could be repaired on line.
- Two upper bearings are made of PTFE and aluminum bronze, maintain-free.
- 2 PTFE backing O-Ring.
- The back of seal will not have rust.
- Stainless steel locking device guarantees the using life.
- SS420 spindle.

## Lower spindle design



- Two bearings are made of PTFE and aluminum bronze, maintain-free.
- 2 PTFE backing O-Ring.
- O-Rings on the stem could be repaired on line.
- Plane bearing could reduce the operating torque when the valve was installed vertically.
- SS420 stainless steel.



## Online seat repair

- Sizes above of equal DN350 could be repaired online under closing condition.

