VMB1
Butterfly Valve

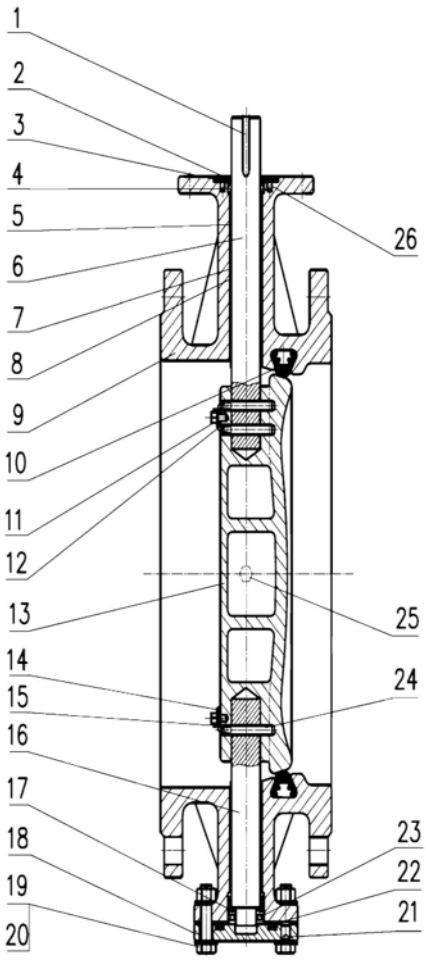
mafusa

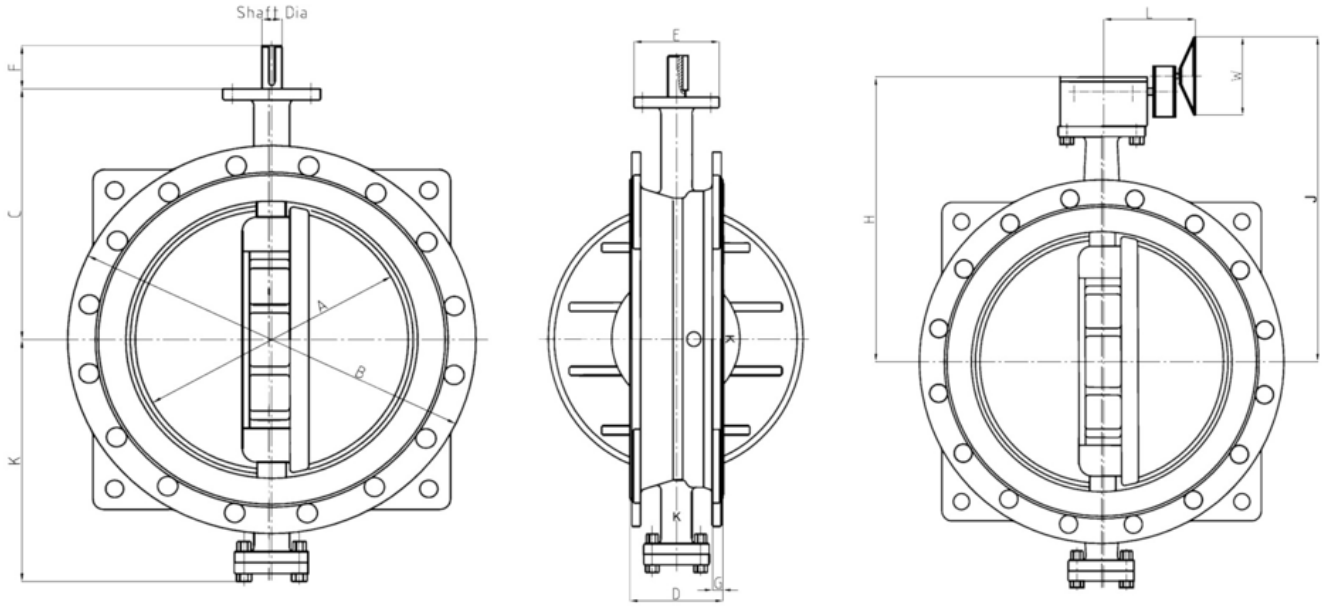
Specification

- **Design:** Double eccentric, doble flanged
- **Sealing ring:** EPDM
- **Range:** DN 300-1.600
- **Pressure Rate:** PN 10/16
- **Face to Face:** EN 558-1 Series 14 and Series 13
- **Working test:** According to 12266/A
- **Body:** Made of ductile iron GJS 400, epoxy coated.
- **Double eccentric design:**
  long using life > 30.000 operating life.
- **ISO 5211** top flange adaptor for acuator.

Materials

Nº	PART NAME	MATERIAL	NORMA
1	Key	Carbon Steel	AISI 1045
2	Retaining plate	Carbon Steel + Zinc	ASTM A570+Zinc
3	Sub-back up ring	PTFE	PTFE
4	O Ring	NBR	EN 681-1
5	Bush	1020+PTFE	AISI 1020+PTFE
6	Main shaft	Stainless Steel	AISI 420
7	O Ring	NBR	EN 681-1
8	Back up ring	PTFE	PTFE
9	Body	Ductile Iron	ASTM A536
10	Seat Ring (seal)	EPDM	EN 681-1
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	Subeje inferior	Stainless Steel	AISI 420
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	EN 681-1
23	Thrust Bearing	Bearing Steel	AISI E52100
24	Straight Pin	Stainless Steel	AISI420
25	Plug	Brass	C28000
26	Sunk Screw	Stainless Steel	AISI 304





DN	A	B		C	D	E	F	G	
		PN10	PN16					PN10	PN16
350	333	505	520	330	190	150	50	24.5	26.5
400	383	565	580	365	216	150	73	24.5	28
450	435	615	640	400	222	150	75	25.5	30
500	485	670	715	445	229	210	75	26.5	31.5
600	584	780	840	485	267	210	73	30	36
700	678	895	910	564	292	300	105	32.5	39.5
800	780	1015	1025	624	318	300	105	35	43
900	880	1125		670	330	300	105	37.5	46.5
1000	980	1255		755	410	350	118	40	50
1200	1180	1485		880	470	350	122	40	57
1400	1371	1685		950	530	415	145	46	60
1600	1568	1915		1130	600	415	150	49	

DN	K	Q	Shaft Diamet.	J	H	L	W
350	311	291	35	528	425	260	300
400	353	335	35	579	460	260	300
450	377	391	45	659	495	310	300
500	421	443	50	712	555	320	300
600	530	541	50	752	595	320	300
700	608	634	75	883	679	390	400
800	672	736	75	943	739	390	400
900	690	841	75	1012	785	374	400
1000	722	916	100	1053	951	490	400
1200	840	1107	120	1171	1061	609	400
1400	1000	1297	150	1340	1130	629	600
1600	1118	1486	150	1520	1310	629	600

Features

• Seal design
A casting forming seal Groove in the body.
The valve body is treated by shot blasting and wholly epoxy coated including the Groove.
A complete EPDM seal ring is implanted into the Groove.
The epoxy resin will be injected into the Groove from the hole on the back of the body to lock the seal ring.
After the solidification, the 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 posible loosing problema.
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 & aluminum bronze, maintain free. 2 PTFE backing O - ring.
Stainless steel locking device guarantees the using life.
SS420 spindle.

• Lower spindle design
Two bearings are made of PTFE &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.
420 stainless steel.

• Online seat repair
Size above or equal DN 350 could be repaired online under closing
condition.