

# BUTTERFLY VALVE - WAFER TYP

## Series 900

PN 16

DN 32 - 1600

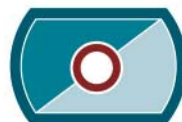
Industrial applications

Water, Chemicals

Oil & Gas, Air



# Butterfly Valves Series 900



**VINICKY**  
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## General Information

### TYPE DESIGNATION:

9 2 4 B

Version of body:  
B=wafer, T=lug  
Material of disc: - see table  
Material of seat: - see table  
Series 900

MAX. WORKING PRESSURE	
DN 32 ÷ 300	DN 350 ÷ 1600
16 bar	10 bar*

\*16 bar upon request

Note: When temperature of medium increases over +120°C, the max. allowed pressure falls: From 16 bar to 14,4 bar, From 10 bar to 9 bar.

### GENERAL APPLICATIONS:

Butterfly valves series 900 are suited to many applications where tight shut-off is required, such as:

- Industrial Processing
- Dry Bulk Conveying
- Paper Mills
- HVAC (Heating, Ventilating & Air Conditioning)
- Water and Wastewater
- Light Slurry Handling
- Food and Beverage

### INSTALLATION BETWEEN FLANGES (DN 32-600)

Prov.		32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
B	PN 6											•	•	•	•	•
	PN10															
	PN16											•	•	•	•	•
T	PN 6	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-
	PN10															
	PN16											•	•	•	•	•

### OPERATING TORQUES UPON WORKING PRESSURE (NM)\*

□ standard      • upon request

DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PMA 6 bar	6	8	15	20	38	55	70	100	150	235	480	750	1180	1380	2050
PMA 10 bar	8	10	17	25	46	70	80	125	220	290	530	1200	1550	2050	2700
PMA 16 bar	10	12	20	30	55	85	100	150	290	380	580	1650	2100	2700	3750

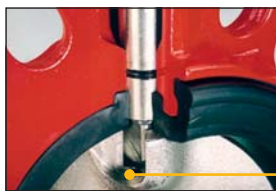
The above mentioned torques are valid for valves with EPDM seat only, and under the condition that the working medium is liquid. While actuating the valve, the above mentioned figures should be multiplied by a coefficient of 1,2. Using an NBR seat, it is necessary to apply a coefficient of 1,8 for dimensions up to DN 300 and a coefficient of 1,32 for dimensions DN 350 and above. In case the medium is gaseous, or if it contains abrasive particles, it is necessary to apply a secondary coefficient of 1,35. If the working conditions are specific, it is recommended to discuss the selection of the actuator with the manufacturer.

### DEMOUNTABLE MODEL DN 32 ÷ DN 1600

Marking: 900B - wafer type / 900T - lug type



Seat is anchored in body



Movement of disc ensured by four-sided endstem



Pivot fixed by pin allows demounting

### MATERIALS

While selecting the material of disc and seat for concrete working conditions, it is recommended to consult it with the manufacturer. Execution in other material types can be provided upon request.



POS.	MATERIAL SPECIFICATION	
1	Body	Ductile iron GGG40 epoxy coated or carbon steel or stainless steel
2	Disc	see table
3	Stem	stainless steel 13% Cr
4	Pivot	stainless steel 13% Cr
5	Seat	see table
6	Bushing	Brass or Delrin
7	Lock washer	zinc coated steel or stainless steel
8	Stem O-ring	NBR
9	Pivot O-ring	NBR
10	Pin	zinc coated steel or stainless steel
11	Pivot washer	stainless steel
12	Stem washer	stainless steel

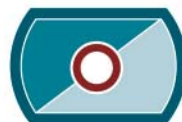
### MATERIALS OF SEAT AND DISC

SEAT	1	NBR - 10°C + 80°C
	2	EPDM -25°C + 125°C
	3	Natural rubber (NR) -15°C + 60°C
	4	VITON (FPM) -25°C + 150°C
	5	Polyurethane (PU) - 15°C + 80°C
	6	Silicone (UMQ) -25°C + 150°C
	7	Epichloridrine -25°C to +60°C
	8	HYPALON® (CSM) - 15°C + 120°C
DISC	0	Brass
	1	Aluminium bronze
	2	Stainless steel AISI 304
	3	Ductile iron GGG40
	4	Stainless steel AISI 316*
	5	HASTELLOY
	6	URANUS B6
7	Titanium	

\*HALAR coating as option.

Choice of the seat and disc materials for various media will be recommended upon specific enquiry. The above mentioned max. temperatures for each material of seat are accepted only for a specific medium, it is necessary to consult this with the manufacturer.

# Butterfly Valves Series 900

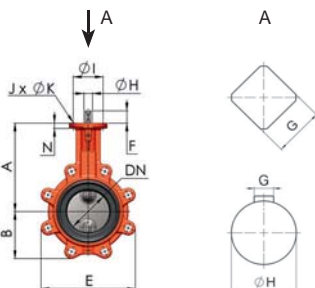


# VINICKY

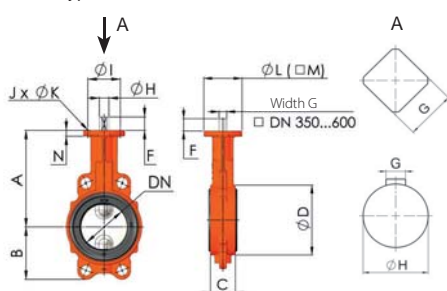
  
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## Dimensions DN32 to DN600

Lug type T



Wafer type B

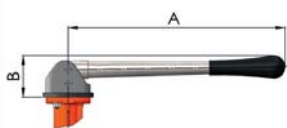


DN	mm	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
	inch	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
Version	B	A	136	136	146	153,5	163	172,5	192,5	205	234	270	310	325	365	375	425	495
	T	A	136	136	146	153,5	163	172,5	192,5	205	234	270	310	350	375	400	425	495
Valve dimensions	B	54	54	64	72	89	105	118	128	166	202	237	271	314	330	375	430	
	C	33	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154	
	D	78	78	96	113	128	150	184	212	268	320	378	432	483	521	571	670	
	E	109	109	116	131	173	205	220	257	318	395	464	505	587	633	704	828	
	F	25	25	25	25	25	25	25	25	25	29	29	36	36	49	80	80	
Endshaft dimensions	G	14						17			22	22	27	27	10	12	14	
	H	-	-	-	-	-	-	-	-	-	-	-	-	Ø38	Ø42	Ø50		
	I	50						70			102	102	125	140	140	165		
ISO TOP Flange	J	4																
	K	7						9			10,5	10,5	14	18	18	18	23	
	L	-	-	70			-	-	-	-	-	-	175	175	210			
Flange dimensions	M	70	70	-	-	-	75	75	75	105	105	132	140	-	-	-		
	N	8	8	8	8	8	8	9,5	9,5	14	17	17	17	21	22	22	25	
	Weight	Type B	2,1	2,1	3,2	3,8	4,2	5	7,9	9,2	13,5	22,3	33	39	69	83	107	145
Weight	Type T	2,2	2,2	4,1	4,9	5,6	6,8	9,1	11,2	15,5	28,7	40,3	67	104	136	180	260	
	ISO Flange	F05 / F07						F07			F10	F12	F14		F16			

Dimensions mentioned in mm, weight in kg

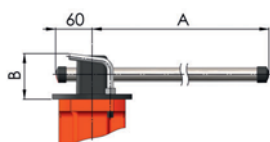
### MANUAL ACTUATION: HANDLEVER

DN 32 - 200



For the valves DN32/40 the flange conforms to F05 and also F07, for the valves DN50-100 is standard flange F05, flange F07 upon request.

DN 250 - 300



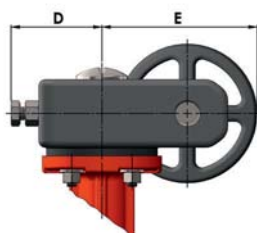
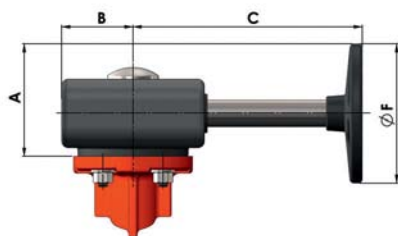
Type L (only up to 6 bar)

DN	32 - 100	125	150 - 200	250	300
A	240	290	362	450	750
B	65	65	68	115	115
Weight	1,24	1,26	1,4	2,2	3,1

Dimensions mentioned in mm, weight in kg

### MANUAL GEARBOX WITH HANDWHEEL

DN 32 ÷ 600



DN	32 - 150	200	250-300	350	400	450	500	600
A	57	57	65	80	80	81	81	92
B	51	51	66	83	83	99	99	126
C	120	120	205	240	240	185	185	250
D	46	46	57	72	72	86	86	114
E	101	138,5	183,5	242	292	314	314	423
F	125	200	250	350	450	450	450	600
Weight	1,6	1,6	3,7	6,6	6,6	14,5	14,5	27,2
Wheel	SR5	SR5	R10	R14	R18	R18	R18	R24

Dimensions mentioned in mm, weight in kg.

Handlever and gearbox can be supplemented with contacts for signalisation of endpositions.

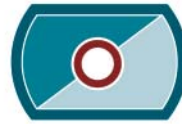
#### Other possibilities of actuation:

- Electric actuator 24V, 230V, 380V
- Pneumatic actuator (single/double acting)

According to customer's request it is possible to modify the appearance of the colour of butterfly valves ABO.

# Butterfly Valves

## Series 900



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## Dimensions DN 700 - DN 1600

DN	mm	700	800	900	1000	1200	1400	1600
	Inch	28	32	36	40	48	56	63
Version - Double Flanged	A	629	666	720	800	940	1000	1150
	B	522	596	656	720	864	925	1045
Valve Dimensions	C	165	188	203	216	254	279	318
	D	840	950	1050	1160	1380	1590	1820
	F	95	140	130	130	150	200	200
End Shaft Dimensions	G	16	18	20	22	28	32	36
	H	55	60	75	85	105	120	140
	M	63	63	84	95	117	124	156
	I	254	254	254	254	298	356	356
ISO Top Flange Dimensions	J	8	8	8	8	8	8	8
	K	18	18	18	18	22	32	32
	L	300	300	300	300	350	415	415
Top Flange		F25	F25	F25	F25	F30	F40	F40
Weight		350	580	700	850	1080	1922	2350

### Operating torques for DN 700-1600

DN (mm)	Torque (N.m)
700	3500
800	4500
900	6000
1000	8950
1200	12600
1400	18500
1600	24400

The above mentioned torques are valid for valves with EPDM seat, water at +20°C, working pressure 10 bar.

Dimensions mentioned in mm, weight in kg.

Face to face acc. to DIN 3202 K1, ISO 5155, API 609, ISO 5752-20.

