

# BUTTERFLY VALVE WITH PNEUMATIQUE ACTUATOR

TECHNICAL PASSPORT

## LUGGED BUTTERFLY VALVE WITH SINGLE ACTING PNEUMATIC ACTUATOR DUCTILE IRON BODY

VPG 4649-N07

### APPLICATION

VPG butterfly valves are intended for ON/OFF or control use in fluid transfer circuits.

- **Area of use:** water supply, water treatment, pumping, irrigation, industry.



- **Fluids :** cold water, hot water, wastewater, liquid discharges, etc.  
«Not suitable for steam application»

### GENERAL CHARACTERISTICS

**Range :** from DN40 to DN300.

- Design according to NF EN 593.
- Type with threaded ears.
- Sealing in both directions of circulation of the piping.
- Soft sleeve guaranteeing a perfect tightness.
- Extended neck compatible with pipe lapping
- Disc profiled and reduced in thickness
- Reduced maneuvering torque.
- Coupling stem on disc.
- Reduced head losses.
- ISO 5211 mounting plate.
- With single acting pneumatic actuator.



**ACS**

### STANDARDS

<b>Design</b>	Manufacture according to the requirements of the European directive 2014/68/UE «Equipment under pressure»: modulate H.
<b>Face to face</b>	Face to face according to standards NF EN 558-1 serie 20, ISO 5272 serie 20, DIN 3202.
<b>Connection</b>	Mounting with flanges : ISO PN10/16 from DN40 to DN150 and PN16 from DN200 to DN300 in accordance with the standards EN1092-2, BS450, AISI B16.1-5.
<b>Tests</b>	Pressure test according to standards EN12266-1, DIN 3230 and ISO 5208: -Body : 1.5 x WP bar -Seat : 1.1 x WP bar

### PRODUCT APPROVALS



Health compliance certificate n° 24 ACC LY 523



on request

### Tecofi France

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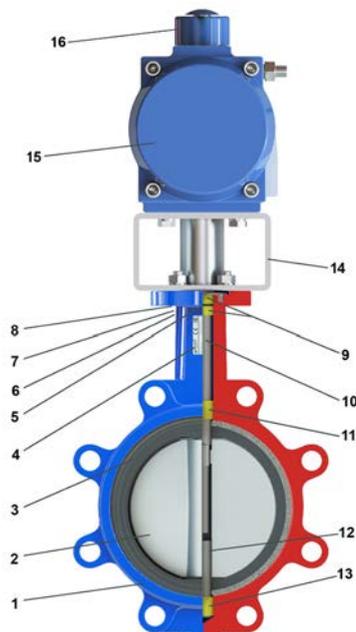


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## CONSTRUCTION



Pos.	Q-ty	Description	Material	Equivalences			Epoxy coating
				DIN	ASTM	BS	
1	1	Body	Ductile iron EN-GJS-400-15	GGG40	A536 65-45-12	EN-JS1030	RAL 5015, 150 µm
2	1	Disc	Stainless steel 316	X5CrNiMo 18 10	A 182 AISI 316	1449-2 316 S16	
3	1	Sleeve	Heat EPDM				
4	1	Nameplate	Stainless steel 304	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15	
5	1	O ring	EPDM				
6	2	Screw	Stainless steel 316/A4	X5CrNiMo 18 10	A 182 AISI 316	1449-2 316 S16	
7	2	Nut	Stainless steel 316/A4	X5CrNiMo 18 10	A 182 AISI 316	1449-2 316 S16	
8	2	Washer	Stainless steel 316/A4	X5CrNiMo 18 10	A 182 AISI 316	1449-2 316 S16	
9	2	Upper bushing	PTFE				
10	1	Upper stem	Stainless steel 420	X20Cr13	A276 AISI 420	970-1 420S37	
11	1	Bushing	PTFE				
12	1	Lower stem	Stainless steel 420	X20Cr13	A276 AISI 420	970-1 420S37	
13	1	Lower bushing	PTFE				
14	1	Arcade	Stainless steel 304	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15	
15	1	Actuator	Aluminium alloy				
16	1	Plug	Plastic				

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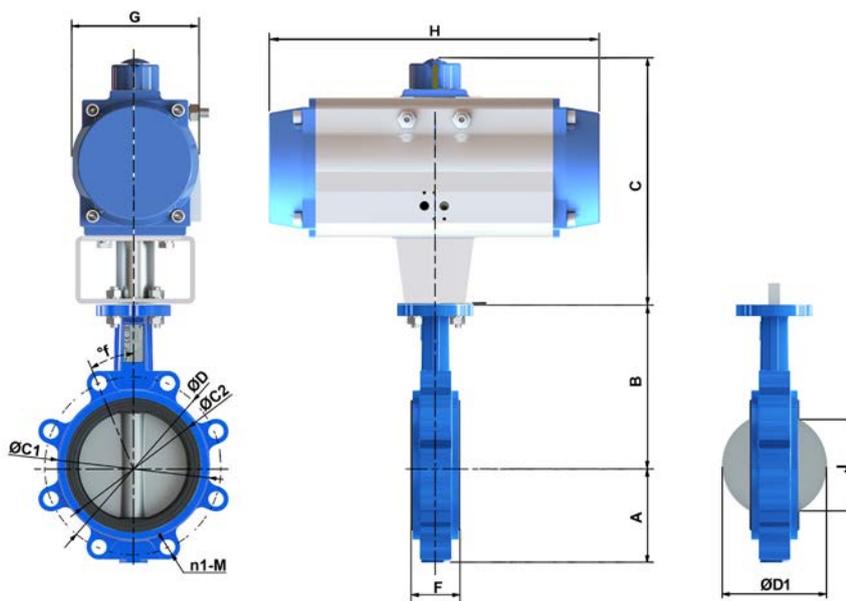


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### DIMENSIONS



DN		A	B	C	ØC1	ØC2	ØD	ØD1	n1-M	F	J	f°	Actuator reference*	H	G	Weight (kg)
mm	inch															
40	1"1/2	60	102	128	88	71	110	43	4-M16	33	29	45°	TSR-063	169	80.5	4.2
50	2"	60	128	128	93	75	125	53	4-M16	43	31	45°	TSR-083	169	80.5	6.1
65	2"1/2	72	140	149	110	92	145	65	4-M16	45	46	45°	TSR-083	210	91	6.5
80	3"	89	146	157	123	105	160	79	8-M16	46	64	45°	TSR-083	264	103	7.6
100	4"	100	165	170	156	134	180	105	8-M16	52	91	22.5°	TSR-105	272	116	12.9
125	5"	116	175	202	183	158	210	124	8-M16	54.4	111	22.5°	TSR-125	302	134.5	18
150	6"	131	199	282	211	187	240	155	8-M20	56	144	22.5°	TSR-140	398	142	25.4
200	8"	162	220	249	264	236	295	203	12-M20	60	194	15°	TSR-160	456	161	40.3
250	10"	195	251	330	329	291	350	251	12-M24	66	242	15°	TSR-190	534	189	62.5
300	12"	228	288	355	385	342	400	302	12-M24	77	292	15°	TSR-240	536	210	123

The actuator sizing recommendation corresponds to use with a maximum  $\Delta P$  of 16 bar, supplied with 6 bar air pressure

### WORKING CONDITIONS

Maximum working pressure : 16 bar

Maximum vacuum pressure : -0.8 bar for 10 minutes (vacuum tests performed in October 2021, valve tested open at -0.8 bar for 10 minutes)

Maximum working temperature : -20°C / +130°C (+85°C for potable water)

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