

BUTTERFLY VALVE WITH GEAR BOX

TECHNICAL PASSPORT

BUTTERFLY VALVE - DUCTILE IRON BODY WITH GEAR BOX - LUGGED

VPG4638-08

APPLICATION

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

Area of use

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



Fluids

Cold water, hot water, wastewater, liquid discharges, etc.

Contraindications

Use on steam is strongly discouraged.



GENERAL CHARACTERISTICS

Range: from DN40 to DN300.

- Design according to standard NF EN 593.
- Removable type with threaded lugs
- Sealing in both directions of piping circulation.
- Body coated with epoxy paint protection against corrosion
- Raised neck compatible with pipe insulation
- Soft sleeve insures a perfect seal.
- Disc profiled and reduced in thickness
- Low operating torque.
- Stem in two parts couples to the disc using a square.
- Reduced head losses.
- Standardized ISO 5211 upper flange for easy assembly of actuators.

STANDARDS

Design	Manufacture according to the requirements of the European directive 2014/68/UE «Equipment under pressure»: modulate H.
Face to face	Face to face according to standards NF EN 558-1 serie 20, ISO 5272 serie 20, DIN 3202.
Connection	Mounting with flanges : ASME B16.5 Class 150, ISO PN20.
Tests	Pressure test according to standards EN12266-1, DIN 3230 and ISO 5208: -Body: 24 bar -Seat: 17.6 bar

PRODUCT APPROVALS



Tecofi France

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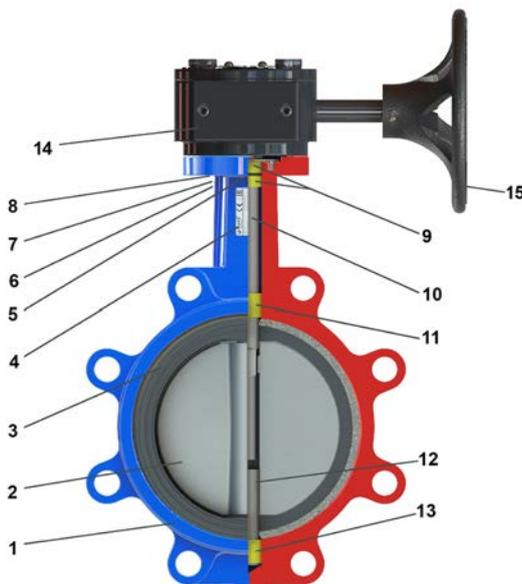


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CONSTRUCTION



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	Ductile iron EN-GJS-400-15 + Nickel	GGG40	A536 65-45-12	EN-JS1030	
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	Gear box					Dark black RAL 9005
15	1	Handwheel	Cast iron				Dark black RAL 9005

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ISO 9001
 ISO 14001
 BUREAU VERITAS
 Certification

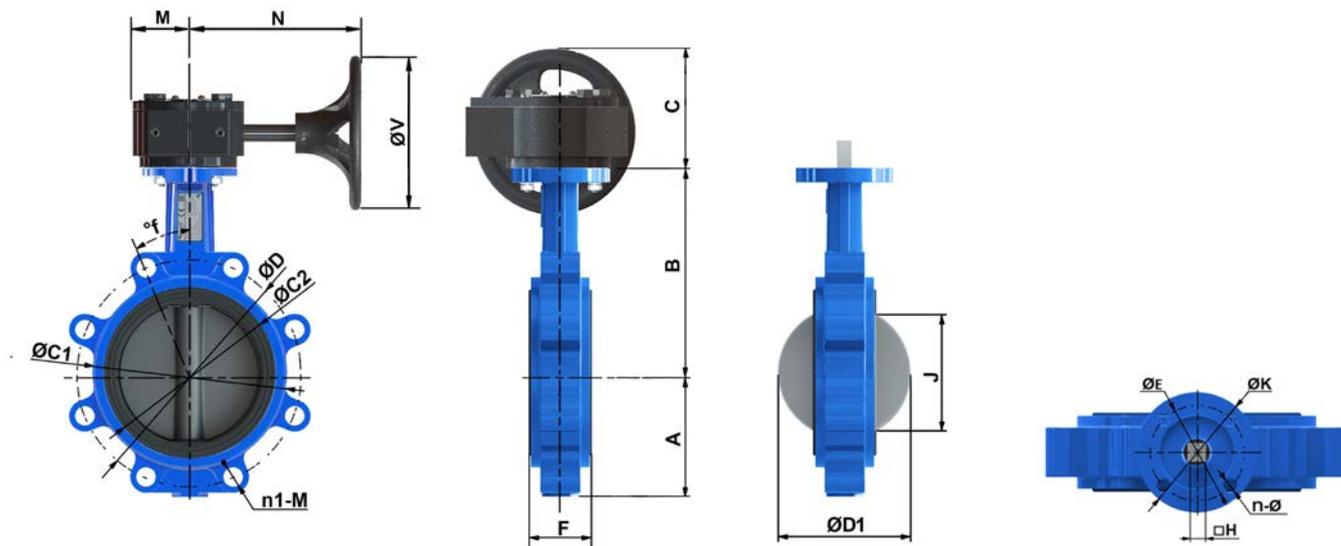


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DIMENSIONS



DN		A	B	C	ØC1	ØC2	ØD	ØD1	n1-M	F	M	N	ØV	ØE	ØK	n-Ø	f°	H	Torque (Nm)	Weight (kg)
mm	inch																			
40	1"1/2	60	102	112	88	71	98.4	43	4 x 1/2	33	50	160	150	50	65	4-Ø7	45°	9	12	5,95
50	2"	60	128	116	93	75	120.7	53	4 x 5/8	43	50	160	150	50	65	4-Ø7	45°	9	16	6,49
65	2"1/2	72	140	115	110	92	139.7	65	4 x 5/8	45	50	160	150	50	65	4-Ø7	45°	9	18	6,99
80	3"	89	146	116	123	105	152.4	79	4 x 5/8	46	50	160	150	50	65	4-Ø7	45°	9	25	8,15
100	4"	100	165	115	156	134	190.5	105	8 x 5/8	52	50	160	150	50	65	4-Ø7	22.5°	11	42	9,2
125	5"	116	175	116	183	158	215.9	124	8 x 3/4	54.4	50	160	150	70	90	4-Ø10	22.5°	14	65	11,3
150	6"	131	199	116	211	187	241.3	155	8 x 3/4	56	50	160	150	70	90	4-Ø10	22.5°	14	110	13,23
200	8"	162	220	208	264	236	298.5	203	8 x 3/4	60	75	232	305	102	125	4-Ø12	15°	17	200	25,96
250	10"	195	251	209	329	291	362	251	12 x 7/8	66	75	232	305	102	125	4-Ø12	15°	22	330	33,62
300	12"	228	288	210	385	342	431.8	302	12 x 7/8	77	75	232	305	102	125	4-Ø12	15°	22	500	45,28

* Torque values without safety factor

WORKING CONDITIONS

Maximum working pressure: 16 bar
(6 bar for compressed air)

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

Maximum working temperature: -20°C / +130°C

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