

BUTTERFLY VALVE WITH GEAR BOX

TECHNICAL PASSPORT

BUTTERFLY VALVE - DUCTILE IRON BODY WITH GEAR BOX - LUGGED

VPG 4648-08

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 lugs
- 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 assembled by conical pin.
- Reduced head losses.
- ISO 5211 mounting plate.



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 : 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.
Tests	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

CE **ERC**  on request

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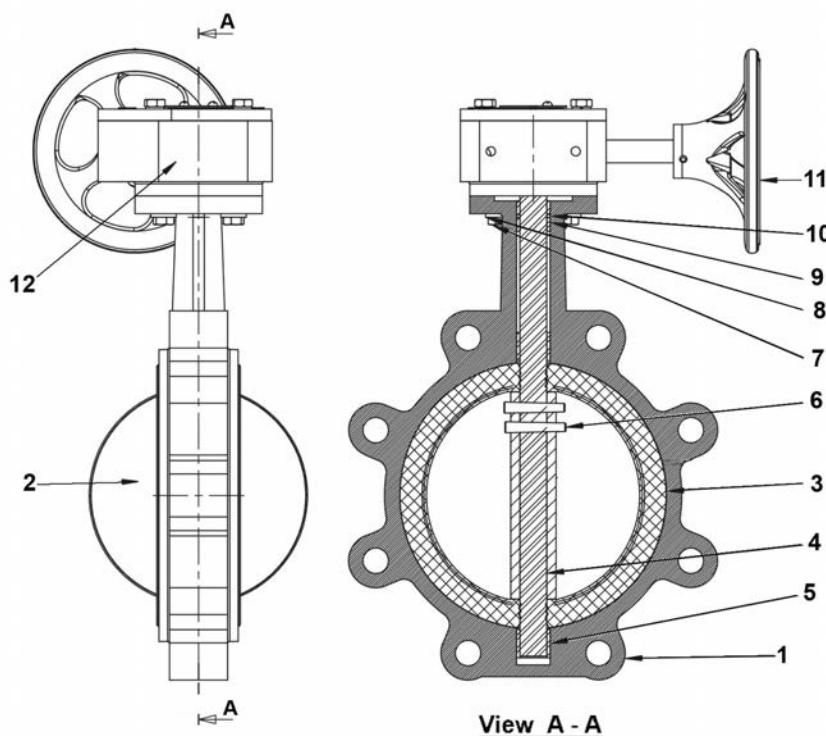
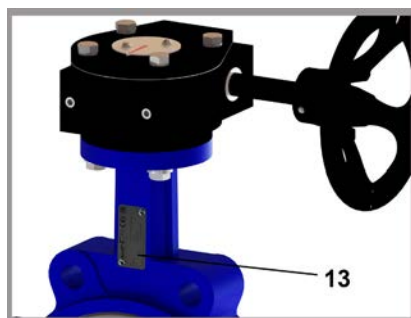
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CONSTRUCTION

Component	Coating
Body (1)	Oven backed epoxy coated body RAL 5015 thickness 150µ
Handwheel (11)	Epoxy (Dark black)
Gear box (12)	Epoxy (Dark black)



Pos.	Q-ty	Description	Material	Equivalences		
				DIN	ASTM	BS
1	1	Body	Ductile iron EN-GJS-400	GGG40	A536 65-45-12	EN-JS1030
2	1	Disc	Fonte ductile EN-GJS-400 + Nickel	GGG40	A536 65-45-12	EN-JS1030
3	1	Sleeve	Heat EPDM			
4	1	Stem	Stainless steel 420	X20Cr13		
5	2	Bushing	PTFE			
6	2	Pin	Stainless steel 420	X20Cr13		
7	2	Screw	Stainless steel 304/A2			
8	2	Nut	Stainless steel 304/A2			
9	2	Washer	Stainless steel 304/A2			
10	2	Bushing	PTFE			
11	1	Handwheel	Cast iron			
12	1	Gear box				
13	1	Nameplate	Stainless steel 304			

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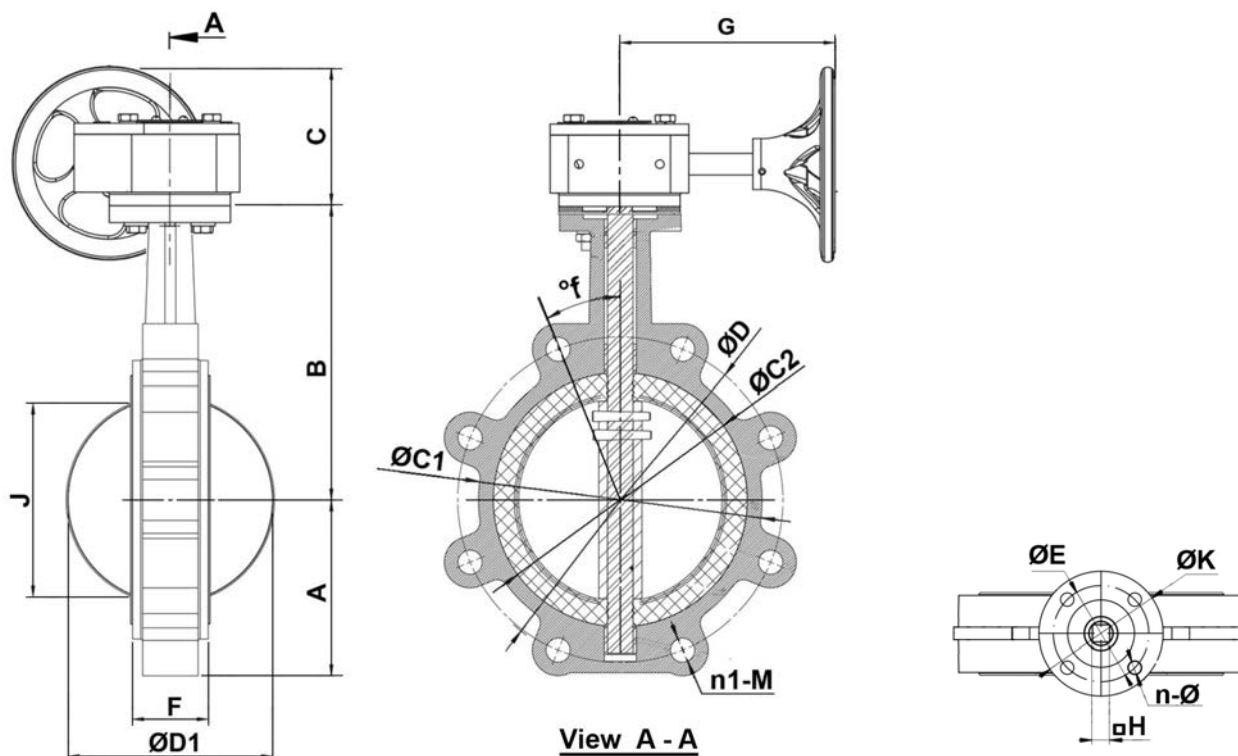


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DIMENSIONS



DN		A	B	C	ØC1	ØC2	ØD	ØD1	n1-M	F	G	ØE	ØK	n-Ø	f°	H	Torque (Nm)	Weight (kg)
mm	inch																	
40	1 1/2	60	102	112	88	71	110	43	4-M16	33	160	50	65	4-Ø7	45°	9	12	5.5
50	2"	60	128	116	93	75	125	53	4-M16	43	160	50	65	4-Ø7	45°	9	16	6.05
65	2 1/2	72	140	115	110	92	145	65	4-M16	45	160	50	65	4-Ø7	45°	9	18	6.25
80	3"	89	146	116	123	105	160	79	8-M16	46	160	50	65	4-Ø7	45°	9	25	7.2
100	4"	100	165	115	156	134	180	105	8-M16	52	160	50	65	4-Ø7	22.5°	11	42	9.3
125	5"	116	175	116	183	158	210	124	8-M16	54.4	160	70	90	4-Ø10	22.5°	14	65	11
150	6"	131	199	116	211	187	240	155	8-M20	56	160	70	90	4-Ø10	22.5°	14	110	12.7
200	8"	162	220	208	264	236	295	203	12-M20	60	232	102	125	4-Ø12	15°	17	200	25.5
250	10"	195	251	209	329	291	355	251	12-M24	66	232	102	125	4-Ø12	15°	22	330	34.9
300	12"	228	288	210	385	342	410	302	12-M24	77	232	102	125	4-Ø12	15°	22	500	52.3

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 October 2021,
valve tested open at -0.8 bar for 10 minutes)

Maximum working temperature : -10°C / +130°C

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