

BUTTERFLY VALVE WITH GEAR BOX

TECHNICAL PASSPORT

BUTTERFLY VALVE - DUCTILE IRON BODY WITH GEAR BOX - LUGGED

VPG4649-08

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, drinking water, air, compatible fluids.

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 : 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: 24 bar -Seat: 17.6 bar

PRODUCT APPROVALS



on request



certificate of health conformity
n° 22 ACC LY 475



n° 2309075

ISO 9001
ISO 14001
BUREAU VERITAS
Certification



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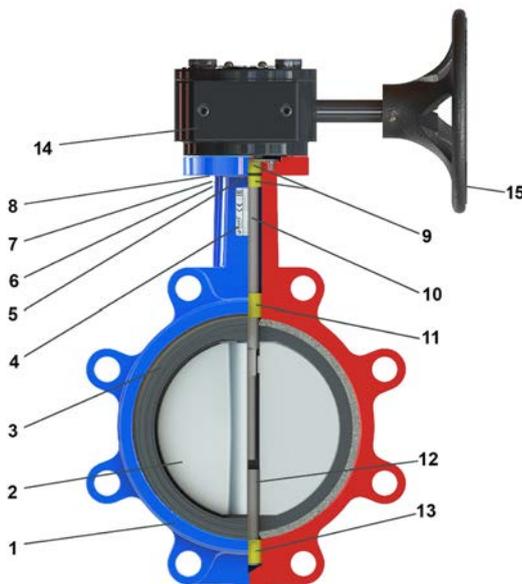
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CONSTRUCTION



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, 250 µm
2	1	Disc	Stainless steel 316	G-X6CrNiMo18 10	A351 Gr. CF8M	1504 316 C16	
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 304/A2	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15	
7	2	Nut	Stainless steel 304/A2	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15	
8	2	Washer	Stainless steel 304/A2	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15	
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

The photographs and technical art works are not contractual. The specifications of the presented products are open to modifications without previous advice.

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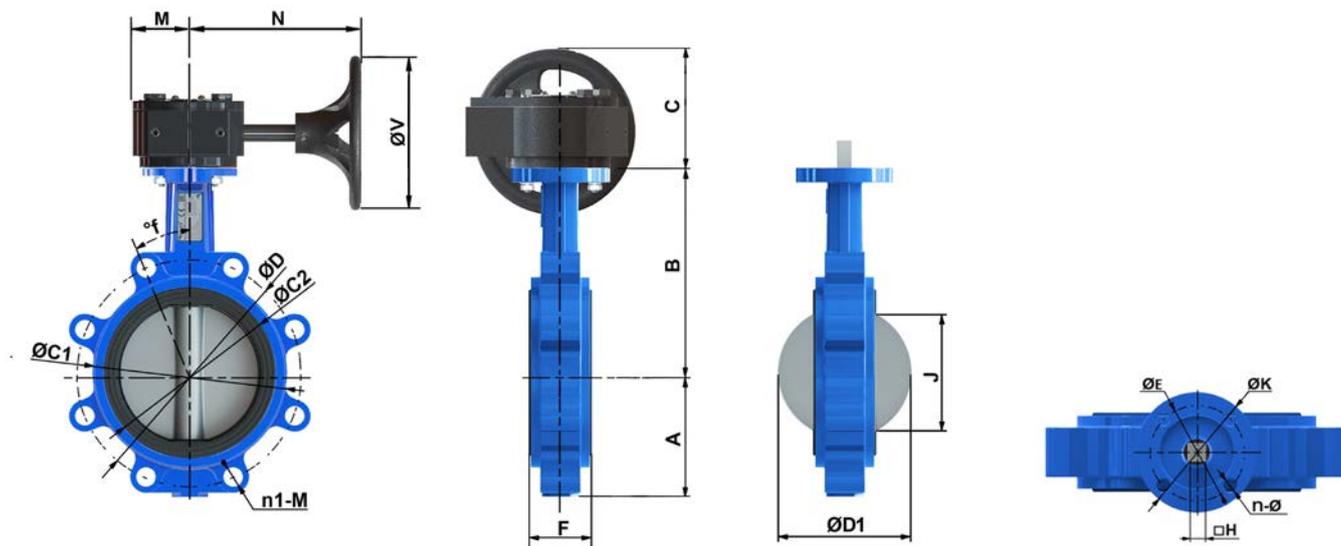


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DIMENSIONS



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	110	43	4-M16	33	50	160	150	50	65	4-Ø7	45°	9	12	5,95
50	2"	60	128	116	93	75	125	53	4-M16	43	50	160	150	50	65	4-Ø7	45°	9	16	6,49
65	2"1/2	72	140	115	110	92	145	65	4-M16	45	50	160	150	50	65	4-Ø7	45°	9	18	6,99
80	3"	89	146	116	123	105	160	79	8-M16	46	50	160	150	50	65	4-Ø7	45°	9	25	8,15
100	4"	100	165	115	156	134	180	105	8-M16	52	50	160	150	50	65	4-Ø7	22.5°	11	42	9,2
125	5"	116	175	116	183	158	210	124	8-M16	54.4	50	160	150	70	90	4-Ø10	22.5°	14	65	11,3
150	6"	131	199	116	211	187	240	155	8-M20	56	50	160	150	70	90	4-Ø10	22.5°	14	110	13,23
200	8"	162	220	208	264	236	295	203	12-M20	60	75	232	305	102	125	4-Ø12	15°	17	200	25,96
250	10"	195	251	209	329	291	355	251	12-M24	66	75	232	305	102	125	4-Ø12	15°	22	330	33,62
300	12"	228	288	210	385	342	410	302	12-M24	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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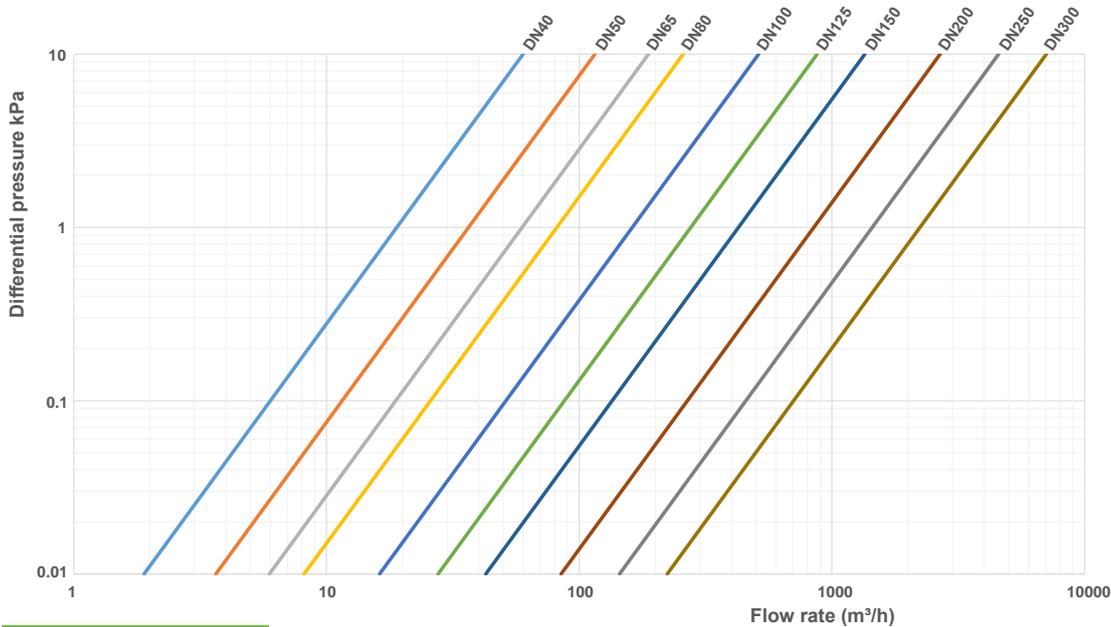


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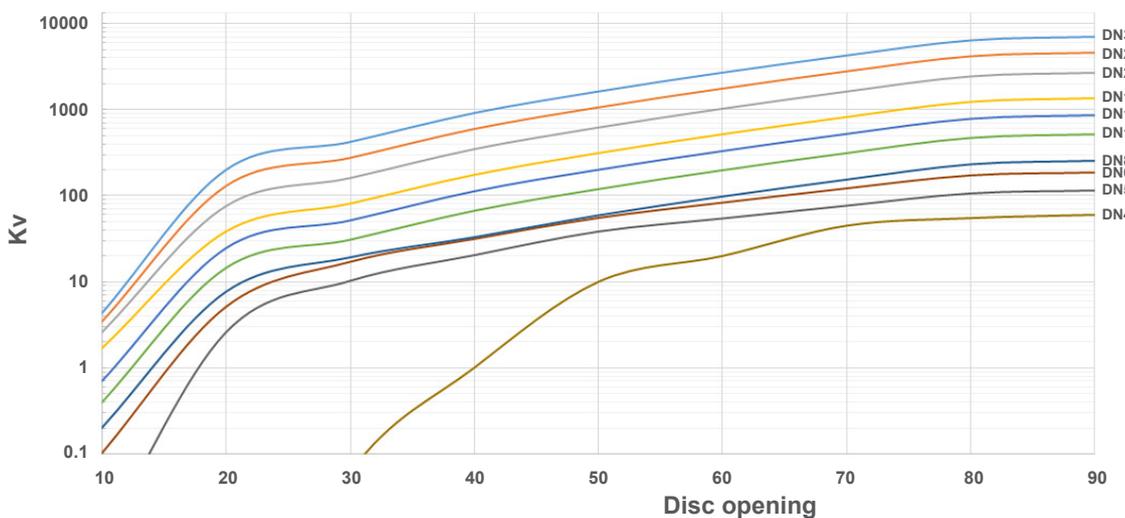
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HEAD LOSSES DIAGRAMM



FLOW FACTOR

DN		Kv								
mm	inch	10°	20°	30°	40°	50°	60°	70°	80°	90°
40	1 1/2"	0.0	0.0	0.1	1.0	10.0	20.0	45.0	55.0	60.0
50	2"	0.0	2.6	10.3	20.5	38.5	54.7	77.0	106.9	115.4
65	1 1/2"	0.1	5.1	17.1	31.6	55.6	83.8	123	174	188
80	3"	0.2	7.7	19.4	33.3	59.9	99.2	156	235	258
100	4"	0.4	14.5	30.8	66.7	119	197	311	467	513
125	5"	0.7	24.8	52.2	114	203	335	530	795	874
150	6"	1.7	38.5	81.2	175	313	517	819	1229	1350
200	8"	2.6	76.1	161	349	622	1028	1627	2440	2681
250	10"	3.4	129	274	593	1058	1750	2770	4154	4566
300	12"	4.3	200	423	917	1634	2704	4279	6418	7054



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