

BUTTERFLY VALVE WITH ELECTRIC ACTUATOR

TECHNICAL PASSPORT

BUTTERFLY VALVE - DUCTILE IRON BODY WITH ELECTRIC ACTUATOR BETWEEN FLANGES PN10/16 - ASA 150

VPG4448-J34

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 DN32/40 to DN200.

- Design according to standard NF EN 593.
- Removable wafer type with smooth centering 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.

With electric actuator



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 series 20, ISO 5272 series 20, DIN 3202.
Connection*	Mounting between flanges ISO PN10/16 according to EN1092-1 and GOST PN10/16. Adjustable between flanges ASME B16.5 Class 150 (ISO PN20) / EN 1092-2
Tests	Pressure test according to standards EN12266-1, DIN 3230 and ISO 5208: -Body: 24 bar -Seat: 17.6 bar

* Possible assembly with stamped flanges and stainless steel collars

PRODUCT APPROVALS



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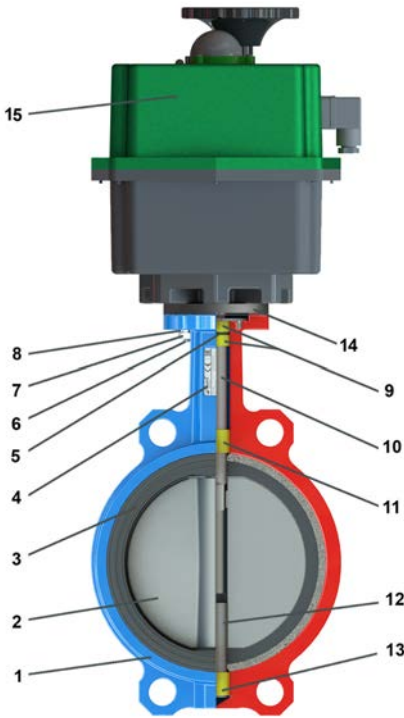


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CONSTRUCTION



Anticorrosion protection system:

The valve body is coated with a paint system corresponding to a C5 – Medium durability (C5M) classification, in accordance with the principles of NF EN ISO 12944.

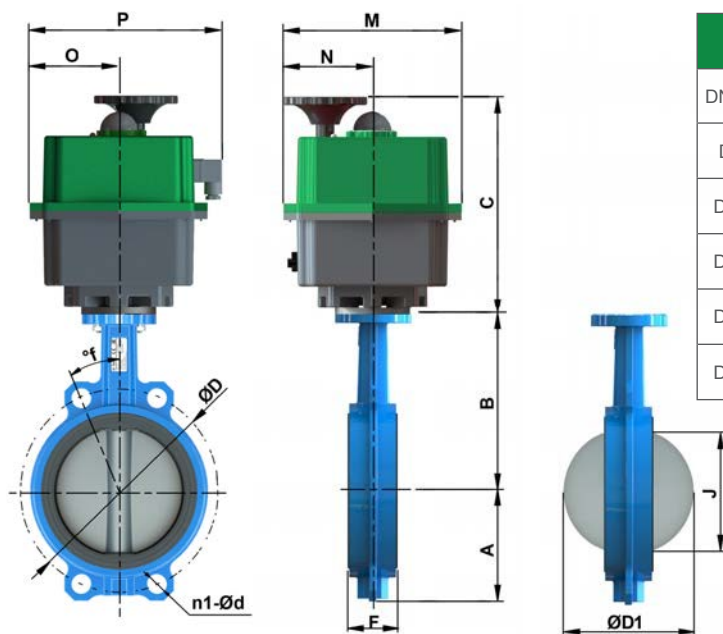
Pos.	Q-ty	Description	Material	Equivalences			Epoxy coating
				DIN	ASTM	BS	
1	1	Body	Ductile iron EN-GJS-400-15	GGG40	A536 65-45-12	EN-JS1030	RAL 5015, 250 µm
2	1	Disc	Ductile iron EN-GJS-400-15 + Nickel	GGG40	A536 65-45-12	EN-JS1030	
3	1	Sleeve	Heat EPDM				
4	1	Nameplate	Stainless steel 304	X5CrNi 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	Actuator	J+J				

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DIMENSIONS



DN	Product reference	Operating time	Actuator reference	
DN40-65	VPG4448-J34	9 sec./90°	T20J34	24V-240V 1PH 50/60Hz
DN80	VPG4448-J34	9 sec./90°	T35J34	24V-240V 1PH 50/60Hz
DN100	VPG4448-J34	13 sec./90°	T55J34	24V-240V 1PH 50/60Hz
DN125	VPG4448-J34	29 sec./90°	T85J34	24V-240V 1PH 50/60Hz
DN150	VPG4448-J34	34 sec./90°	T140J34	24V-240V 1PH 50/60Hz
DN200	VPG4448-J34	58 sec./90°	T300J34	24V-240V 1PH 50/60Hz

Maximum differential pressure : 16 bar

DN		A	B	C	ØD	ØD1	n1-Ød	f°	F	J	M	N	O	P	Weight (kg)
mm	inch														
40	1 1/2	60	120	110	110	43	4-Ø19	45°	33	29	110	55	51	181	3,07
50	2"	60	128	125	125	53	4-Ø19	45°	43	31	110	55	51	181	3,62
65	2 1/2	72.5	140	145	145	65	4-Ø19	45°	45	46	110	55	51	181	3,79
80	3"	91	148	160	160	79	4-Ø19	45°	45	64	110	55	51	181	4,57
100	4"	108	165	180	180	105	4-Ø19	22.5°	52	91	110	55	51	181	6,26
125	5"	121	175	210	210	124	4-Ø20	22.5°	56	111	110	55	51	181	8,73
150	6"	131	199	240	240	155	4-Ø23	22.5°	56	144	214	107	107	235	11,99
200	8"	163	220	295	295	203	4-Ø23	15°/22.5°	60	194	214	107	107	235	16,68

The smooth holes are oblong on the DN32/40, DN200

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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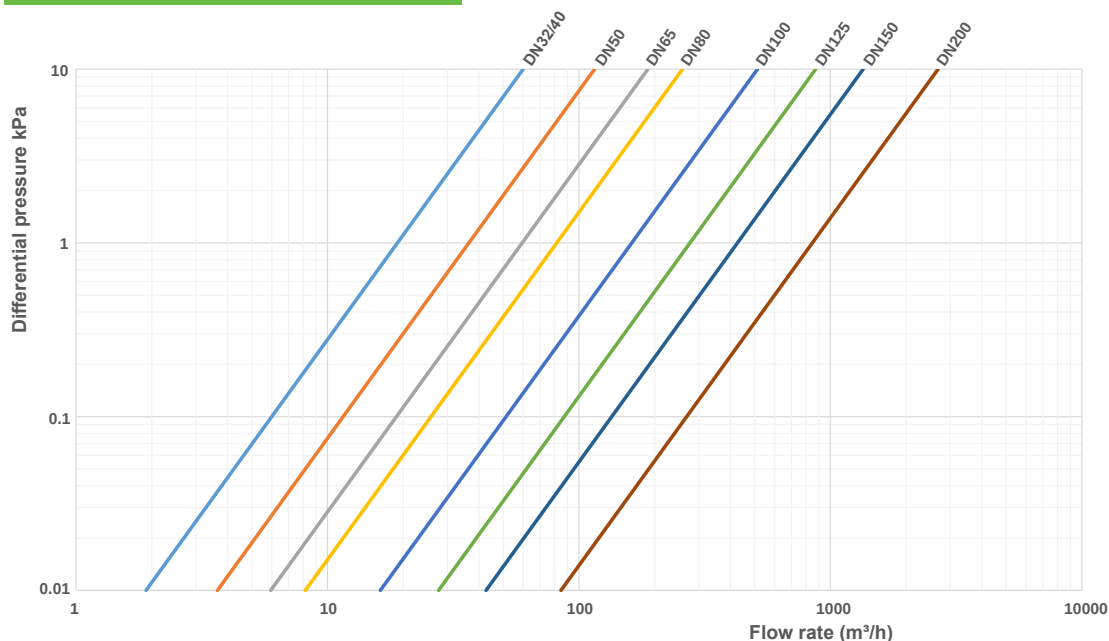


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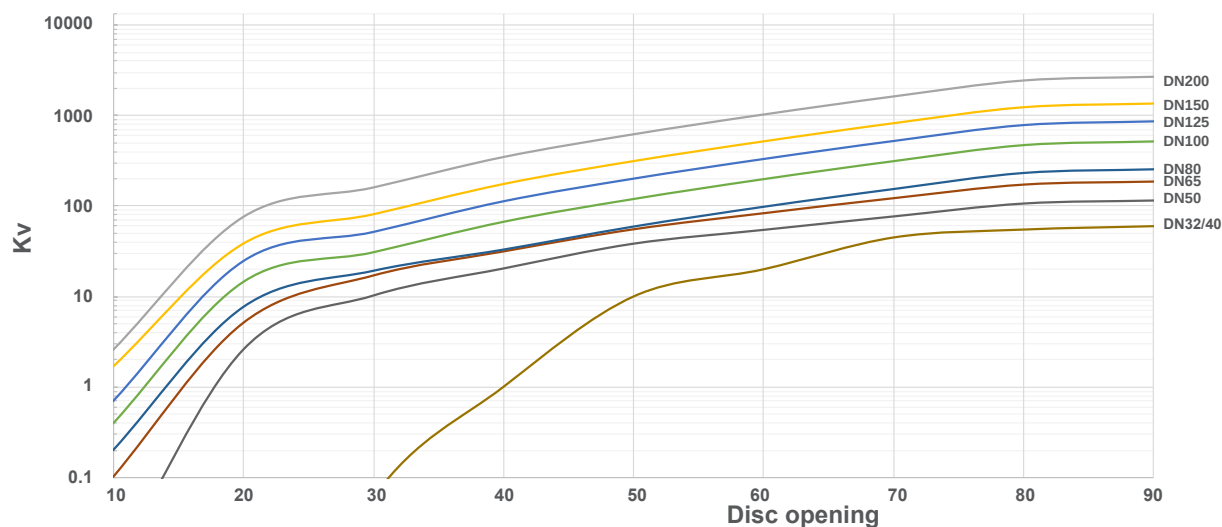
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HEAD LOSSES DIAGRAMM



FLOW FACTOR

DN		Kv								
mm	inch	10°	20°	30°	40°	50°	60°	70°	80°	90°
32/40	1"1/4 - 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



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