

BUTTERFLY VALVE BV10 - BV12



MAXIMUM WORKING PRESSURE

Max. pressure :	16.0 bar
Hydraulic pressure test / body :	24.0 bar
Pressure test tightness of the valve / seat :	17.8 bar
Execution with stem AISI316 :	10.0 bar

OPERATING OPTIONS

Lever
Gearbox
Electric actuator
Pneumatic cylinder

TECHNICAL SPECIFICATIONS

- Face to face following EN558 - BS5155 - ISO5752 - API609
- Long neck execution
- Wafer- type with 4 centre holes - Type BV10
- Lug- type with threaded holes - Type BV12
- One piece continuous stem as "anti blow out" system
- Internal stem / disc junction
- Mountingpad following ISO 5211
- For flange connections in accordance to DIN PN6/10/16, ANSI 150 and some JIS.K10
- Exchangeable seat vulcanised on hard centre - type BACK-UP - with 2 "inlaid" o-rings
- Powder Epoxy coating - thickness minimum 200 μ

APPLICATION

- Cold and hot water ; clean, waste and salt water ; oil ; granulates, etc...
- Gasses (compressed air, natural gas, etc...)

TEMPERATURE RANGE

EPDM	-20°C	+120°C
BUNA	-10°C	+90°C
CSM	-18°C	+100°C
FPM / FKM	-10°C	+150°C
SILICONE	-30°C	+150°C

STANDARD EXECUTION

BV TYPE	BODY	DISC	SEAT
BV10-2327E	GG25	GGG40 Rilsan coated	EPDM
BV10-2366E	GG25	SS316	EPDM
BV10-2313B	GG25	Alu bronze	BUNA
BV12-2427E	GGG40	GGG40 Rilsan coated	EPDM
BV12-2466E	GGG40	SS316	EPDM
BV12-2413B	GGG40	Alu bronze	BUNA

Valves can be Rilsan coated, on request



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BELGIUM VENTIEL

MAX. WORKING PESSURE AND TEMPERATURE RANGE

- Max. Pressure:	DN32-150	16 bar
	DN200-300	10 bar
- Hydraulic pressure test/body	DN32-150	24 bar
	DN200-300	16 bar
- Pressure test tightness of the valve/seat:	DN32-300	17.8 bar
	DN200-300	11 bar
-Temperature range -20°C tot 120°C		

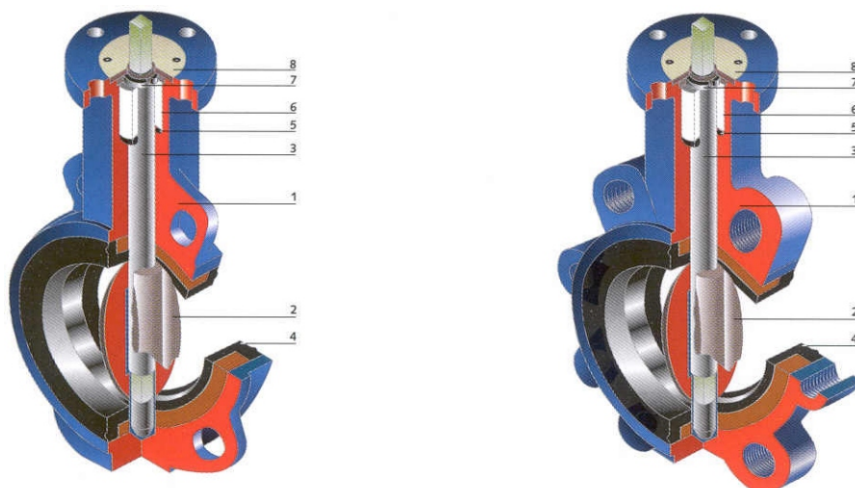
TECHNICAL SPECIFICATIONS

- Face to face following DIN3202/K1 - Bs5155 - ISO 5752 - API609
- Long neck execution
- Wafer type with 4 centre holes - type Bv10
- Lug-type with treaded holes - type Bv12
- 1 piece-continious stem as "anti blow-out" system
- Internal stem/body junction
- Mounting flange following ISO5211
- Mounting between flanges DIN PN6/10/16, ANSI 150 and some JIS.K10
- Exchangeable seat vulcanised on hard centre - Type Back-up with 2 "lay-in" O-rings (top and bottom)
- Epoxy-coating with thickness 200 micron (RAL5015)

APPLICATION:

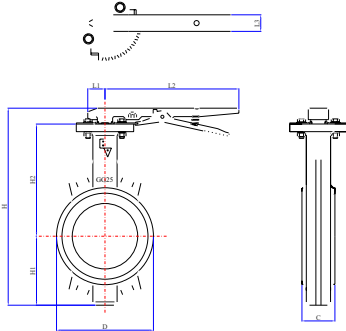
cold and warm water, clean-, waste- and salt water, oil, granulates, etc ...
gasses, like natural gas, compressed air, etc ...

Also available: Seats in Buna, Hypalon, white EPDM, Silicone and Viton
On Request: Seats in Nitril, Neoprene, White Butyl

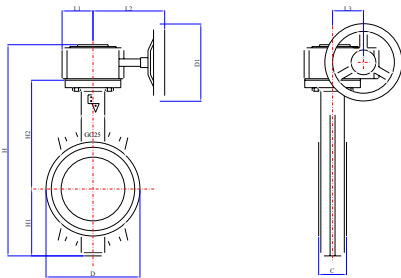


STANDARD EXECUTION

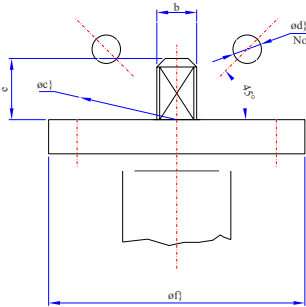
N°	NAME	BV10-2327E	BV10-2366E	BV12-2427E	BV12-2466E
1	BODY	GG25/EPOXY	GG25/EPOXY	GGG40/EPOXY	GGG40/EPOXY
2	DISC	GGG40/RILSAN	AISI 316	GGG40/RILSAN	AISI 316
3	STEM	AISI 420	AISI 420	AISI 420	AISI 420
4	SEAT	EPDM/BUNA	EPDM/BUNA	EPDM/BUNA	EPDM/BUNA
5	O-RING	EPDM/BUNA	EPDM	EPDM	EPDM
6	BUSHING	POLYAMIDE	POLYAMIDE	POLYAMIDE	POLYAMIDE
7	CIRCLIP	SPRING STEEL	SPRING STEEL	SPRING STEEL	SPRING STEEL
8	RETAINER	ZINCKED STEEL	ZINCKED STEEL	ZINCKED STEEL	ZINCKED STEEL



DN	D	H	H1	H2	L1	L2	L3	C	KG
32	75	225	58	141	28	185	26	33	2.6
40	82	225	58	141	28	185	26	33	2.8
50	97	230	65	140	28	185/260	26	43	3
65	109	250	72	153	28	185/260	26	46	3.5
80	126	277	94	158	28	185/260	26	46	4
100	152	311	108	176	28	185/260	26	52	5.5
125	182	332	120	191	28	185/260	26	56	7.3
150	207	364	136	203	28	185/260	26	56	8.8
200	262	447	165	244	45	350	35	60	15.8
250	317	513	202	273	45	350	35	68	21.8
300	373	580	235	311	45	350	35	78	30.8



DN	D	D1	H	H1	H2	L1	L2	L3	C	KG
50	97	100	251	65	140	40	95	42	43	3.8
65	109	100	271	72	153	40	95	42	46	4.3
80	126	100	298	94	158	40	95	42	46	4.8
100	152	125	342	108	176	50	107	50	52	7.3
125	182	125	369	120	191	50	107	50	56	9.1
150	207	125	397	136	203	50	107	50	56	10.6
200	262	200	482	165	244	73	170	60	60	19.1
250	317	200	548	202	273	73	170	60	68	25.1
300	373	315	619	235	311	73	170	60	78	37.0



DN	b	c	e	f	d	n°
32	11	F05-50 / F07-70	22	90	7/10	4
40	11	F05-50 / F07-70	22	90	7/10	4
50	11	F05-50 / F07-70	22	90	7/10	4
65	11	F05-50 / F07-70	22	90	7/10	4
80	11	F05-50 / F07-70	22	90	7/10	4
100	14	F07-70	22	90	10	4
125	14	F07-70	22	90	10	4
150	14	F07-70	22	90	10	4
200	17	F10-102	34.5	150	12	4
250	22	F10-102	34.5	150	12	4
300	27	F12-125	34.5	150	14	4

éserve de modifications - Subject to modifications - Änderu

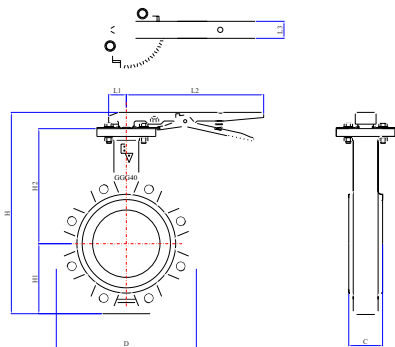
Torque testing conditions: Water 20°C-EPDM seat.

Values are average, we advice to add at least 30% to the netto value to calculate actuator.

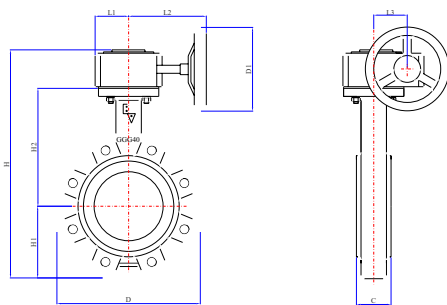
DN	32	40	50	65	80	100	125	150	200	250.0	300
3 bar	7.20	7.20	7.20	12.00	13.60	24.80	51.20	64.00	88.00	160.00	192.00
6 bar	8.00	8.00	8.00	12.80	14.40	26.40	53.60	68.00	96.00	168.00	208.00
10 bar	8.80	8.80	8.80	14.40	16.00	29.60	56.00	72.00	116.00	184.00	220.00
16 bar	9.60	9.60	9.60	16.00	17.60	36.80	59.20	90.40			



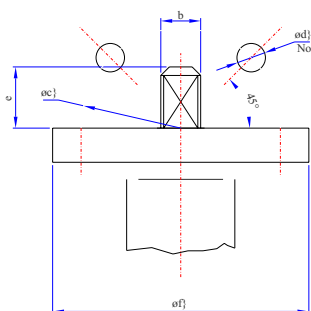
BELGIUM VENTIEL



DN	D	H	H1	H2	L1	L2	L3	C	KG
50	165	233	65	140	28	185/260	26	43	4.1
65	185	253	72	153	28	185/260	26	46	4.7
80	200	280	94	158	28	185/260	26	46	6.3
100	228	312	108	176	28	185/260	26	52	7.8
125	245	339	120	191	28	185/260	26	56	10
150	285	367	136	203	28	185/260	26	56	12
200	343	447	165	244	45	350	35	60	19.8
250	406	513	202	273	45	350	35	68	30
300	483	584	235	311	45	350	35	78	44



DN	D	D1	H	H1	H2	L1	L2	L3	C	KG
50	165	100	251	65	140	40	95	42	43	4.9
65	185	100	271	72	153	40	95	42	46	5.5
80	200	100	298	94	158	40	95	42	46	7.1
100	228	125	342	108	176	50	107	50	52	9.6
125	245	125	369	120	191	50	107	50	56	11.8
150	285	125	397	136	203	50	107	50	56	13.8
200	343	200	482	165	244	73	170	60	60	23.1
250	406	200	548	202	273	73	170	60	68	33.3
300	483	315	619	235	311	73	170	60	78	51



DN	b	c	e	f	d	n°
50	11	F05-50 / F07-70	22	90	7/10	4
65	11	F05-50 / F07-70	22	90	7/10	4
80	11	F05-50 / F07-70	22	90	7/10	4
100	14	F07-70	22	90	10	4
125	14	F07-70	22	90	10	4
150	14	F07-70	22	90	10	4
200	17	F10-102	34.5	150	12	4
250	22	F10-102	34.5	150	12	4
300	27	F12-125	34.5	150	14	4

Torque testing conditions: Water 20°C-EPDM seat.

Values are average, we advice to add at least 30% to the netto value to calculate actuator.

DN	32	40	50	65	80	100	125	150	200	250.0	300
3 bar	7.20	7.20	7.20	12.00	13.60	24.80	51.20	64.00	88.00	160.00	192.00
6 bar	8.00	8.00	8.00	12.80	14.40	26.40	53.60	68.00	96.00	168.00	208.00
10 bar	8.80	8.80	8.80	14.40	16.00	29.60	56.00	72.00	116.00	184.00	220.00
16 bar	9.60	9.60	9.60	16.00	17.60	36.80	59.20	90.40			



"RILSAN" INFORMATION

RILSAN impregnation is a vital feature necessary in maintaining and extending the life of all metal based products. RILSAN is a non flammable water based material product from a vegetable source rather than from a petroleum source with consistent flow characteristics to maintain an even thickness (6Mls) which resists rough chemical environments, and has been salt spray tested in excess of 2000 hrs. And immersed in salt water for 6 years with corrosion free results.

For sanitary applications RILSAN is inert to fungus growth, highly stain resistant and U.S.F. & D.A. Approved . Due to the low coefficient of friction and high abrasion resistance the tests have shown that RILSAN coated objects have been deformed without the slightest sign of peeling or exposure to bare metal. RILSAN impregnated products are chemically resistant to strong alkalies, acids, grease, oil commercial solvents, LPG, natural gas and weathering.

SOME PHYSICAL TEST RESULTS:

- Surface hardness Shore D 75
- Impact Resistance Steel ball weighing 20N, falling from height 50 cm. No fracture of the coating and metal not bared (Coating thck. 0.3mm)
- Abrasion resistance At "Taber" abrasimeter (type Cs17, load 9.81N) loss of weight after 1000 turns 5-8 mg. ("Excellent")
- Dielectric strength 30-40 KV/mm (Generally required satisfactory value is 18 KV/mm, min.)
- Melting point 184-186°C
- Inflammability "Self extinguishing" acc. To ASTM D 635

Discs of BV 10/12 are coated with RILSAN which comply with specifications of WICS - Water Industry and approved for drinking water.

elf atochem

January 1994

RILSAN CERTIFICATIONS IN DRINKING WATER

Certification offices	RILSAN grades	Drinking water
W.R.C.(U.K.) WATER RESEARCH CENTER	T BLACK 26 AC T BLACK CM AC T BLUE 7174 MAC T GREY 7136 MAC T GREY 5161 MAC ES WHITE 1464 EC	Cold water
WICS (U.K.) WATER INDUSTRY CERTIFICATION SCHEME	T BLACK CM AC T GREY 7136 MAC T GREY 5161 MAC T BLUE 7174 MAC	Water up to 50°C
DVGW (Germany) DEUTSCHER VEREIN DES GAS UND WASSERFACHES	T GREY 5161 MAC T GREY 7136 MAC T BLUE 7174 MAC	Cold water
DVGW W270 (Germany)	T GREY 5161 MAC T GREY 7136 MAC T BLUE 7174 MAC	Cold water
DET NORSKE VERITAS (Norway)	T GREY 5161 MAC ES WHITE 1464 EC ES GREY 5055 MAC	Water up to 60°C
KIWA (Nederland) KEURINGSINSTITUUT VOOR WATERZIEDINGARTIKELN	T GREY 5161 MAC T GREY 7136 MAC ES WHITE 1464 EC	Cold water
FRENCH REGULATION (France) Corresponding to specification in force : Jo n° 1227/90	T GREY 5161 MAC T BLUE 7174 MAC ES WHITE 1464 EC	(Food contact)
CONSEIL SUPERIEUR D'HYGIENE PUBLIQUE DE FRANCE (France) CRECEP	ES WHITE 1464 EC T GREY 5161 MAC T BLACK 26 HVHC	Cold water
BECETEL (Belgium) Toxicological Approval	T GREY 7136 MAC T GREY 5161 MAC T BLUE 7174 MAC ES WHITE 1464 MAC	Cold water
SINGAPORE INSTITUTE OF STANDARDS AND INDUSTRIAL RESEARCH (Singapore)	T GREY 7136 MAC T GREY 5161 MAC	Cold water
BOLOGNA, MILANO, PADOVA UNIVERSITIES (Italy)	ES WHITE 1464 EC	Cold water
HUNTER WATER CORPORATION LIMITED (Australia)	T GREY 5161 MAC T BLUE 7174 MAC T BLUE 7233 MAC T GREEN 7221 MAC	Cold water

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