

## Description

Centric butterfly valve with elastomer liner for liquids and gases in the industrial range, general services, water treatment, ...

## Product features

- Body construction DP1 Wafer DN 25-600  
DP3 Lug DN 50-600
- Face to face dimension according to ISO 5752/20, EN 558-1/20
- Top flange according to EN ISO 5211
- Max. working pressure 16/20 bar
- Rating PN 6, PN 10, PN 16, PN 25, ANSI cl. 150
- Temperature range -40°C ÷ 200°C according to material
- Tightness test according to EN 12266-1/P12 leakage rate A, test fluid water

CE

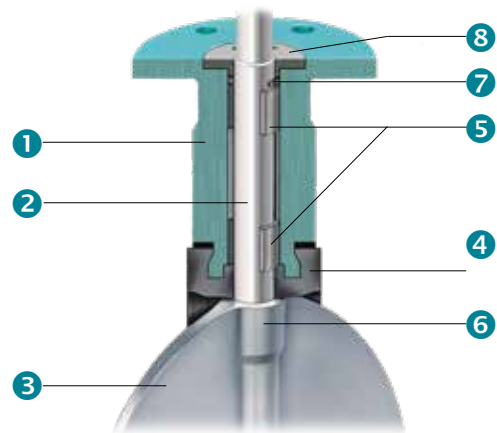
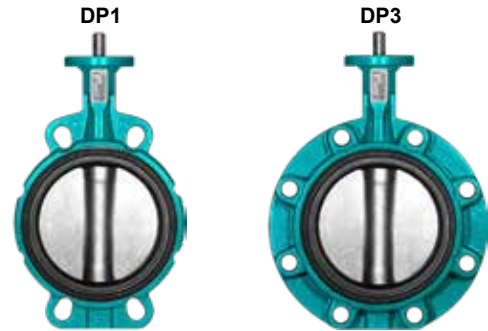
The butterfly valves DESPONIA® plus meet the safety requirements of the pressure Equipments Directive 2014/68/EU (PED) appendix 1 for fluids of the groups 1 and 2.

SIL

Butterfly valves DESPONIA® plus are suitable to be operated in safety related systems according to IEC 61508 / 61511, Safety Integrity Level SIL 2

## Construction

1	Body (extended valve neck allowing insulation)
2	Blow out proof shaft with position indication
3	Disc
4	Exchangeable liner with sealing grooves on the tightening face
5	Self-lubricating shaft bushing
6	Square driven disc
7	External shaft sealing
8	Retaining washer (blow out protection)



## Type code

DP1	100	. 3	3	. 2AE	. 4A	. 2AR	. E	-	xx
1	2	3	4	5	6	7	8		9

1	Body type	DP1	Wafer	DN 25-600
		DP3	Lug	DN 50-600
2	Nominal diameter	025-600	mm	
3	Working pressure	→	1 = 6 bar, 2 = 10 bar, 3 = 16 bar, 4 = 20 bar (with body 3HE or 4C0, for 2AE body consult our technical department)	
4	Rating	→	1 = PN 6, 2 = PN 10, 3 = PN 16, A = ANSI cl. 150, 5 = PN 25 on request	
5	Body	2AE	Ductile iron EN-GJS-400-15, Polyurethan coated 80 µm	<140°C DP1+DP3, DN 25-400
		3HE	Cast steel GP240GH, 1.0619, Polyurethan coated 80 µm	<140°C DP1 DN 50-600, DP3 DN 50-600
		4C0	Stainless steel 1.4408, AISI316	DP1 DN 50-600, DP3 DN 50-600
6	Shaft	41	Stainless steel 1.4021, AISI420 (max. 16 bar)	DN 25-300
		42	Stainless steel 1.4542 / 17-4PH	DN 25-300
		4A	Stainless steel 1.4021, AISI420 (max. 16 bar)	DN 350-600
		4L	Stainless steel 1.4542 / 17-4PH	DN 350-600
7	Disc	2AR	Ductile iron EN-GJS-400-15, Rilsan coated 250 µm (max. 16 bar)	<90°C <16 bar DN 25-600
		2AE	Ductile iron EN-GJS-400-15, Polyurethan coated 80 µm (max. 16 bar)	<120°C DN 25-600
		3HE	Cast steel GP240GH, 1.0619, Polyurethan coated 80 µm	<120°C DN 250-600
		3OD	Carbon steel 1.0552 / GS52.3, Ultralene Coating™ coated <80°C, pmax. 10 ≤ DN 400 / 6 bar >DN 400	DN 80-300
		4C0	Stainless steel 1.4408, AISI316	DN 25-600
		4CP	Stainless steel 1.4408, AISI316, polished (max. 16 bar)	DN 25-600
		4S0	Super austenitic steel 1.4588	DN 40-600
		5C0	Alubronze ASTM B148 C95800 / G-Cu Al 10 Ni	DN 25-600
8	Liner	→	E = EPDM <95°C N = Nitril (NBR) <100°C Other materials and white and blue liners (FDA & EC 1935/2004) on request	EC = EPDM HT <130°C H = CSM (Hypalon) <110°C <16 bar V = FPM (Viton®) <200°C <16 bar S = MVQ (Silicone) <200°C <6bar
		9	Special execution	BL

Max. pressure and temperature limits of application are dependent of the working conditions.



When mounting the valve at the end of a line please note:

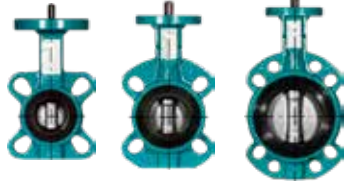
- Body type	DP3
- Medium	only for liquids, 10÷30°C
- Max. working pressure	DN 25-200 10 bar
(with 16 bar disc)	DN 250-600 6 bar
- no water hammer !!!	

please consult our document "Flanges"

## Dimensions

### DP1 Wafer, DN 25-600

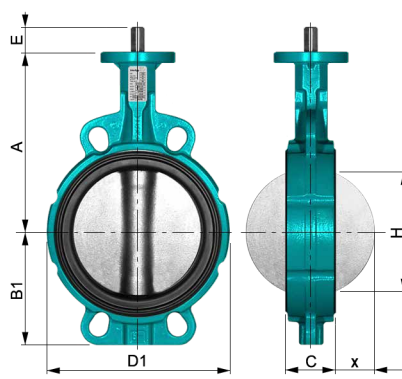
DN 25/32 DN 40/50/65 DN 80/100



DN 250-400 DN 450-600



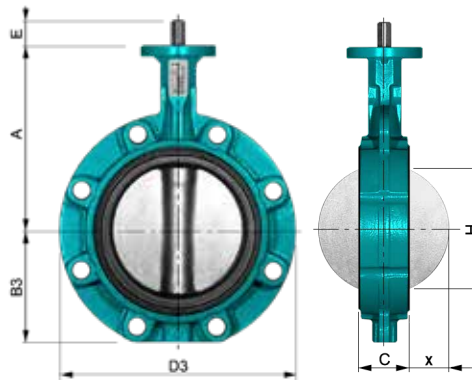
DN 125/150/200



DN	A	B1	C	D1	E	H*	x*	[kg]
25/32	110	51	30	101	12	19	3	1,4
40	130	54	33	108	12	28	6	2,0
50	135	72	43	120	12	32	6	3,0
65	150	82	46	134	12	50	11	3,6
80	160	92	46	142	12	69	19	4,0
100	180	110	52	166	12	88	26	5,5
125	195	128	56	189	16	115	36	7,5
150	210	141	56	214	16	141	48	8,6
200	240	174	60	270	19	194	72	12,7
250	279	201	68	324	24	240	91	22,2
300	315	234	78	378	24	290	112	30,8
350	330	268	80	425	40	330	130	41,5
400	365	299	102	475	40	377	145	57,2
450	397	355	113	538	65	425	164	95,0
500	437	393	126	595	65	474	182	120
600	522	464	153	695	80	569	218	180

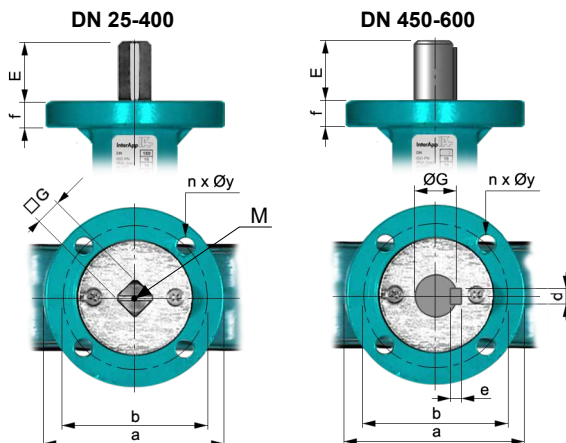
\* When using plastic stubs please check dimension H/x to avoid disc damaging

### DP3 LUG body, DN 50-600



DN	A	B3	C	D3	E	H*	x*	[kg]
50	135	72	43	116	12	32	6	3,2
65	150	82	46	131	12	50	11	4,0
80	160	88	46	188	12	69	19	6,1
100	180	102	52	219	12	88	26	8,5
125	195	116	56	248	16	115	36	10,0
150	210	128	56	274	16	141	48	11,0
200	240	161	60	332	19	194	72	19,6
250	279	199	68	402	24	240	91	28,7
300	315	234	78	472	24	290	112	41,2
350	330	258	80	520	40	330	130	62,0
400	365	290	102	584	40	377	145	75,0
450	397	355	113	655	65	425	164	143
500	437	394	126	712	65	474	182	156
600	522	464	153	829	80	569	218	240

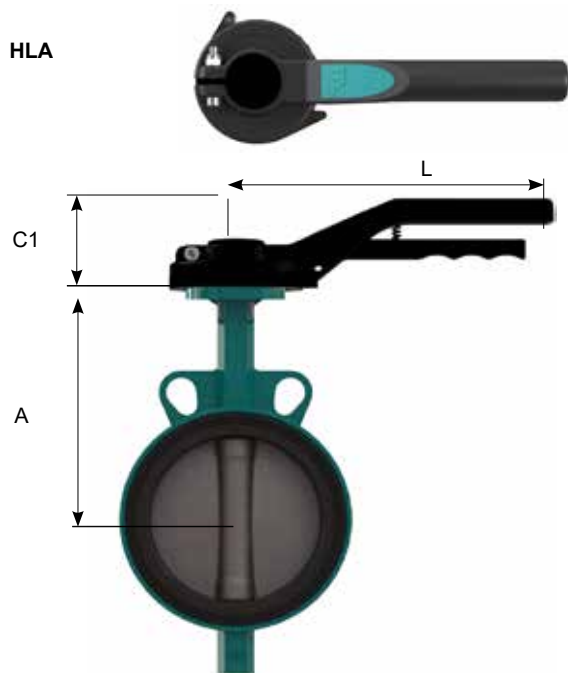
### Top flange according to EN ISO 5211



DN	E	G	M	d	e	f	ISO	a	b	n x øy
25/32	12	□ 8	M4	-	-	12	F07	90	70	4 x 9
40	12	□ 8	M4	-	-	12	F07	90	70	4 x 9
50	12	□ 11	M6	-	-	12	F07	90	70	4 x 9
65	12	□ 11	M6	-	-	12	F07	90	70	4 x 9
80	12	□ 11	M6	-	-	12	F07	90	70	4 x 9
100	12	□ 11	M6	-	-	12	F07	90	70	4 x 9
125	16	□ 14	M6	-	-	12	F07	90	70	4 x 9
150	16	□ 14	M6	-	-	12	F07	90	70	4 x 9
200	19	□ 17	M6	-	-	12	F07	90	70	4 x 9
250	24	□ 22	-	-	-	18	F10/F12	155	102/125	4 x 10 / 4 x 13
300	24	□ 22	-	-	-	18	F10/F12	155	102/125	4 x 10 / 4 x 13
350	40	□ 22	-	-	-	18	F12	155	125	4 x 13
400	40	□ 27	-	-	-	18	F12	155	125	4 x 13
450	65	ø 45	-	14	9	25	F14	175	140	4 x 18
500	65	ø 45	-	14	9	25	F14	175	140	4 x 18
600	80	ø 70	-	20	12	25	F16	220	165	4 x 22

## Dimensions

### Handlever



Aluminium, Epoxy coated

DN	Handlever type	A	C1	L	[kg]
25/32	HLA.F0708.210-C1	118	60	210	0.4
40		138	60	210	0.4
50	HLA.F0711.210-C1	143	60	210	0.4
65		158	60	210	0.4
80		168	60	210	0.4
100 <sup>1)</sup>	HLA.F0711.340-C1	184	66	340	0.7
125 <sup>2)</sup>	HLA.F0714.340-C1	199	66	340	0.7
150 <sup>2)</sup>		214	66	340	0.7
200 <sup>2)</sup>	HLA.F0717.340-C1	244	66	340	0.7

#### 1) Consideration for DN 100

- In general, DN 100 should be used with 340 handlever (HLA.F0711.340-C1).
- In cases where a DN 100 with 210 handlever (HLA.F0711.210-C1) is required, it can be done only for not severe conditions. If the 340 size is not possible to be used while working in severe conditions, it is recommended to use a manual reductor (i.e GB232-05.F05-F0711.100).

#### 2) General consideration for big sizes (DN 125-DN 200)

- DN 125 and DN 150 PN 16 for severe conditions are recommended to use with a gearbox.
- DN 200 PN 6 - PN10 for normal conditions are recommended to use with a gearbox.
- DN 200 for severe conditions and DN 200 PN16 for normal conditions must be used with a gearbox.

### Further documentation

**Pneumatic actuators, Electric actuators, Accessories** according separate data sheets.

**Installation guide, Maintenance guide, Flanges:** Please consult these guides for the installation and maintenance of our butterfly valves.