

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

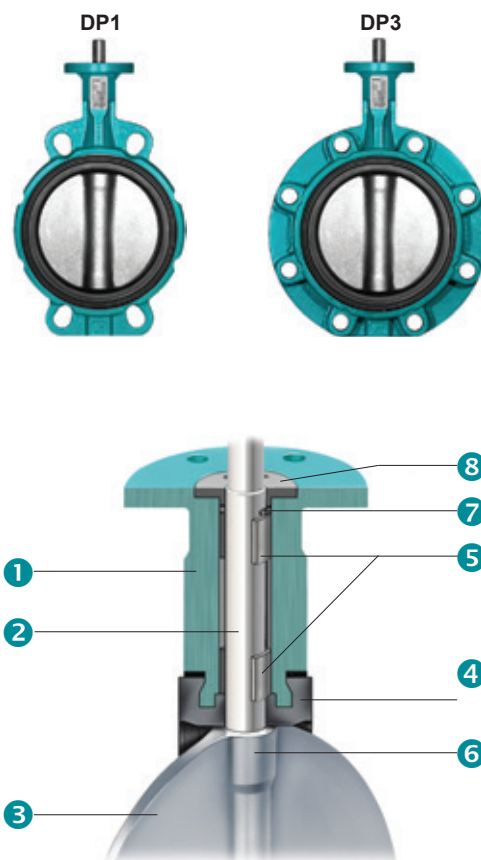
SIL

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

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	→	0 = 2,5 bar 1 = 6 bar, 2 = 10 bar, 3 = 16 bar, 4 = 20 bar (with body 3HE or 4C0; 2AE body on request)					
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 on request				<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 on request
		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 40-600
		4CP	Stainless steel 1.4408, AISI316, polished (max. 16 bar)					DN 25-600
		4N0	Stainless steel A995 Gr5A					DN 40-600
		4S0	Super austenitic steel 1.4588					DN 40-600
		5C0	Alubronze ASTM B148 C95800 / G-Cu Al 10 Ni					DN 25-600
		7H0	Hastelloy ASTM A494 CW-12MW (max. 16 bar)					DN 40-600
8	Liner	→	E = EPDM <95°C		EC = EPDM HT <130°C		V = FPM (Viton®) <200°C <16 bar	
			NG = Nitril (NBR Gas) <90°C		S = MVQ (Silicone) <200 °C < 6 bar			
			Other materials and white and blue liners (FDA & EC 1935/2004) on request					
9	Special execution	BL	Vulcanized bonded liners on request					

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 (with 16 bar disc)	DN 25-200 10 bar DN 250-600 6 bar

- no water hammer !!!

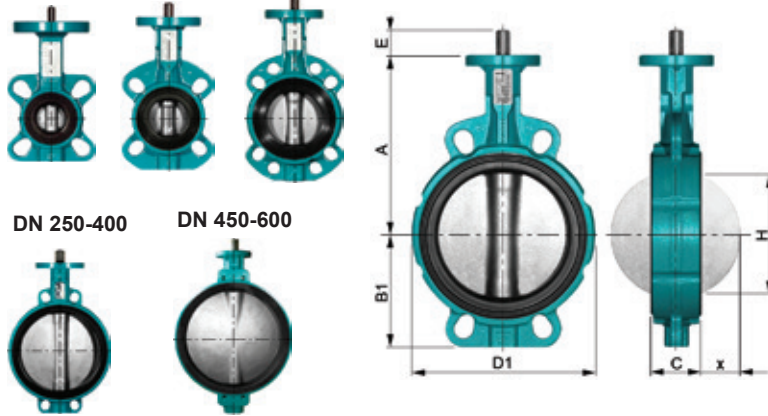
please consult our document "Flanges"

A dedicated member of the AWR Group

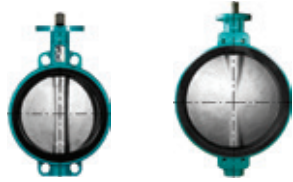
Dimensions

DP1 Wafer, DN 25-600

DN 25/32 DN 40/50/65 DN 80/100 DN 125/150/200



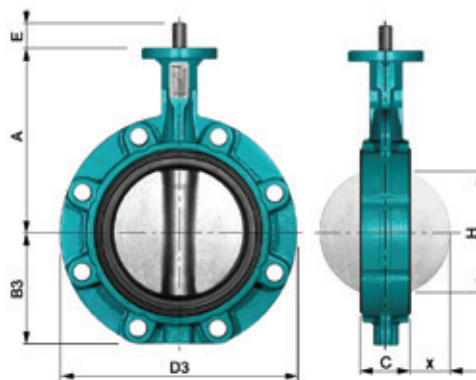
DN 250-400 DN 450-600



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

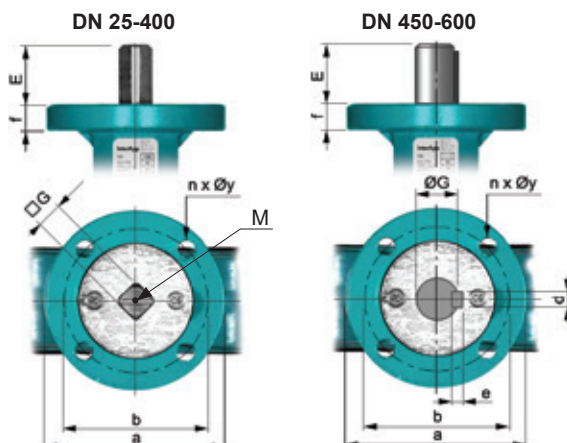
* When using plastic stubs please check dimension H/x to avoid disc damaging

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

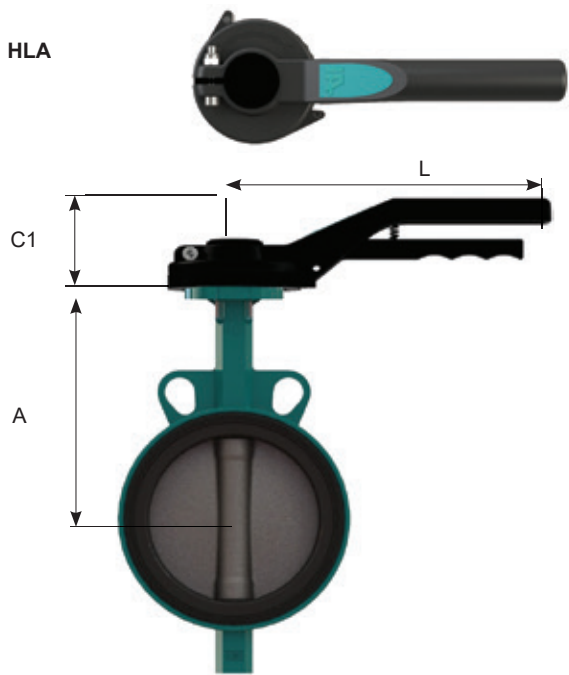
Top flange according to EN ISO 5211



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	45	-	14	9	25	F14	175	140	4 x 18
500	65	45	-	14	9	25	F14	175	140	4 x 18
600	80	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 ¹⁾	HLA.F0711.340-C1	184	66	340	0,7
125 ²⁾	HLA.F0714.340-C1	199	66	340	0,7
150 ²⁾		214	66	340	0,7
200 ²⁾	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 gearbox (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.