Xylia2 Butterfly valves

Wafer-Type (DN50-DN300)
Lug-Type (DN50-DN300)

Technical Data Sheet



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Description

The Xylia butterfly valve has been designed for HVAC applications.



Xylia2 butterfly valves

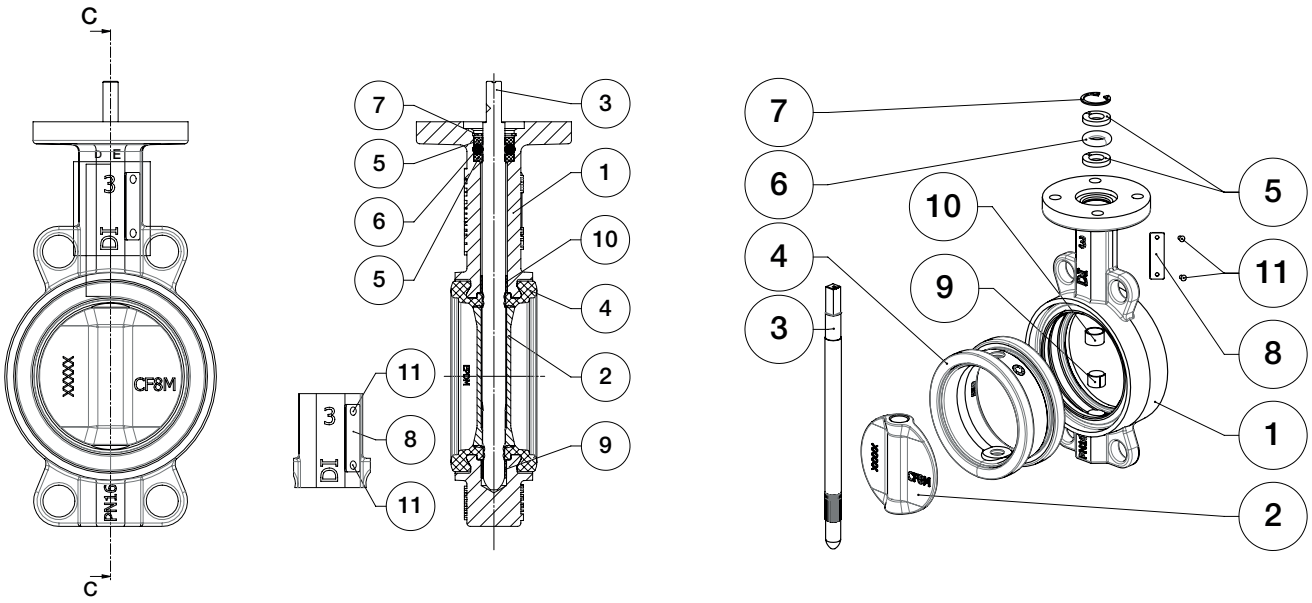
DN 50 up to 300 mm

- Body ductile iron 1.3107
- Lug and Wafer type
- Disc ductile iron EPOXY or Stainless Steel
- Liner EPDM
- Working pressure : 16 bar
- Working temperature : -20°C à +120°C (peak T°)
- Tested according to EN12266-1
- Anti-ejection ring / Double watertightness / Riveted label



Main technical features - Design in accordance with EN 593	
1	Top connection according to ISO5211 standard
2	Spline driven shaft connected to spherically machined disc. Floating disc allows self centering thus preventing stress on the liner during operation
3	Tongue and groove seat design allows perfect tightness.
4	Circlip preventing ejection of shaft
5	Secondary sealing
6	One piece shaft in stainless steel
7	Elastomer liner ensures full protection of shaft and body
8	Face to face dimensions according to : ISO 5752 class 20 NFEN 558 class 20 API609 table 2
9	Connection between flanges PN16 according to EN1092-1 and EN1092-2

Spare parts list and materials



N°	Description	Qty	Materials	EN
1	Body	1	Ductile iron	EN GJS450-10 (5.3107)
2	Disc	1	Ductile iron	EN GJS450-10 (5.3107)
			Stainless steel	GXS CriNIMo 19-11-2 (1.4408)
3	Stem	1	Stainless steel	X30 Cr13 (1.4028)
4	Liner	1	EPDM	-
5	Bush 2	1	Plastic	Grivory GV4
6	O-ring	1	Nitrile	-
7	Circlips	1	Steel	-
8	Identification plate	1	Stainless Steel	Inox 304 - 1.4301

Pressure

DIRECTIVE 2014/68/UE EQUIPMENTS UNDER PRESSURE

Products manufactured in conformity with the requirements of the directive, according to pressure, DN and fluid.

Liners		DN mm	Cat.	Mounting	PFA	PS			
						L1	L2	G1	G2
XYLIA2 16 bar	EPDM	50 to 100	4.3	Flanges	16	NA	16	NA	NA
				End of line	12	NA	12	NA	NA
		125	4.3	Flanges	16	NA	16	NA	NA
				End of line	12	NA	12	NA	NA
		150	4.3	Flanges	16	NA	16	NA	NA
				End of line	12	NA	12	NA	NA
		200 to 300	4.3	Flanges	16	NA	16	NA	NA
				End of line	10	NA	10	NA	NA

PS : Maximum allowable pressure (in bar) according to Directive 2014/68/UE
PFA : Allowable operating pressure (in bar) for supply, distribution and disposal of water.

Applications

The Xylia2 butterfly valve is suitable for plumbing and HVAC applications

Installation

General remarks

For safety reasons, the installation must take place under the supervision of authorised people taking account of local safety instructions and advice.

The handling of butterfly valves and their controls must be done by staff trained in all technical aspects of their operation.

Before installation the pipes must be depressurised and purged (empty of its fluid) in order to avoid any danger to the operator.

The pipe work must be correctly aligned so that no extra stress is exerted on the valve casing.

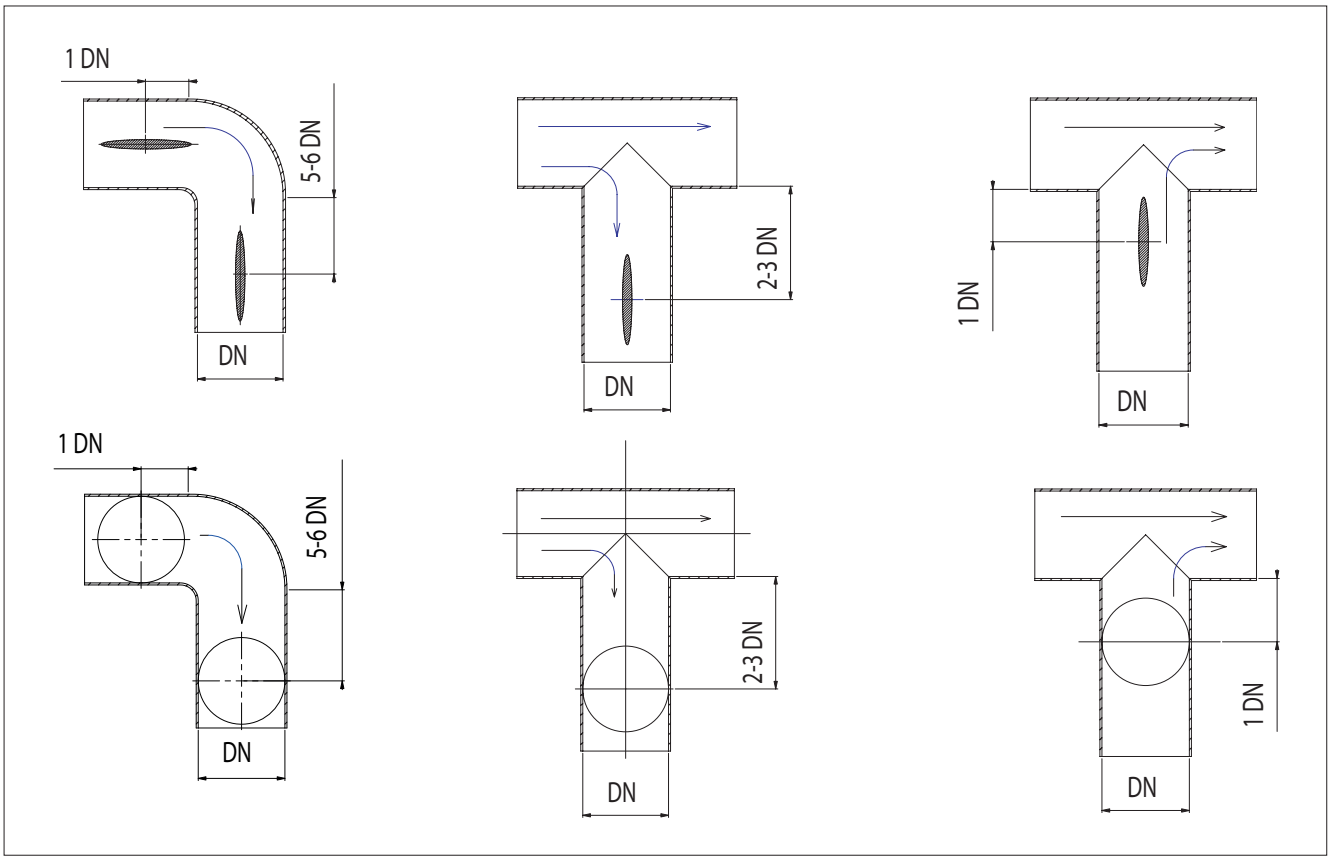
Check the compatibility of the connection flanges against the operating pressure : the PN number of the flanges must be greater or equal to the operating pressure.

The valve is a machined piece of equipment and must not be used to prise apart the flanges.

Installation conditions

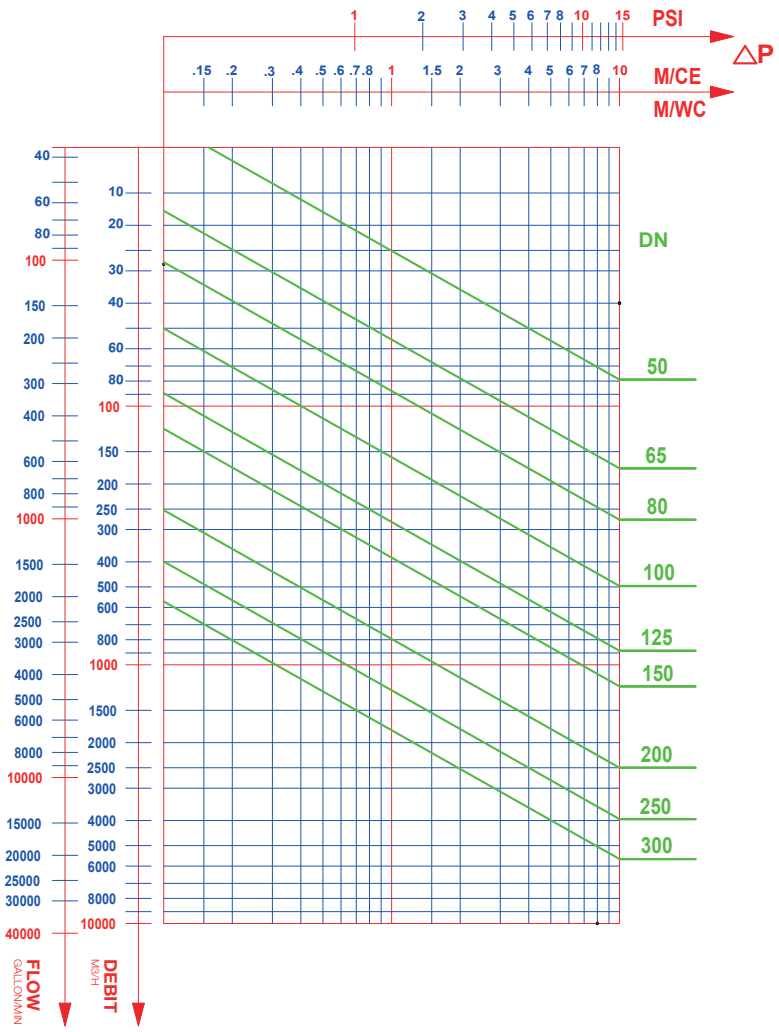
It is recommended that the distances mentioned below be respected in order to prolong the life time of the valve.

Mounting the valve close to pipe work junctions places it in turbulent zones which increase its wear.



Functionning characteristics

Headloss diagram (Δp)



Connecting flanges

4 Centering lugs

Diameter		EN 1092-1 & EN 1092-2	ASME/ANSI B16.5 Class 150
DN	NPS	PN16	
50	2	✔	✔
65	2 ½	✔	✔
80	3	✔	✔
100	4	✔	✔
125	5	✔	
150	6	✔	
200	8	✔	
250	10	✔	✔
300	12	✔	

✔ : possible mounting
■ : impossible mounting

Tapped lugs

Diameter		EN 1092-1 & EN 1092-2
DN	NPS	PN16
50	2	✔
65	2 ½	✔
80	3	✔
100	4	✔
125	5	✔
150	6	✔
200	8	✔
250	10	✔
300	12	✔

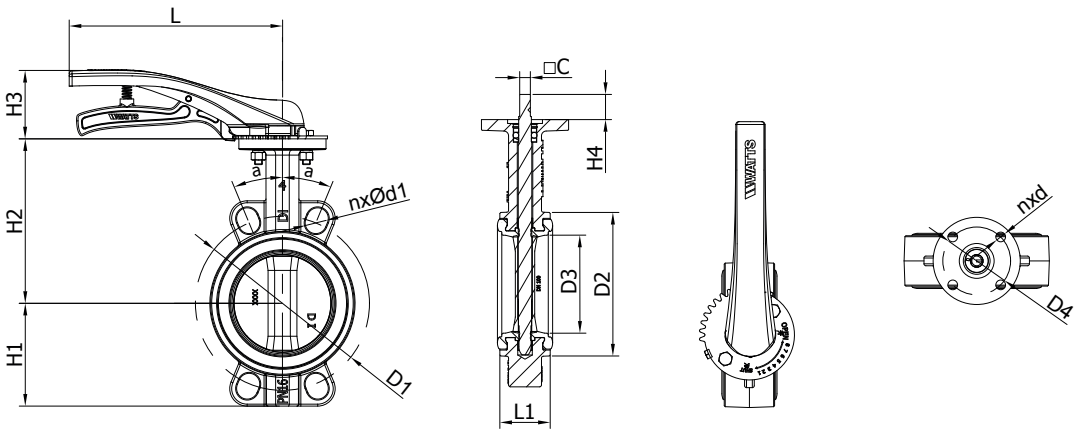
✔ : possible mounting

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Dimensions

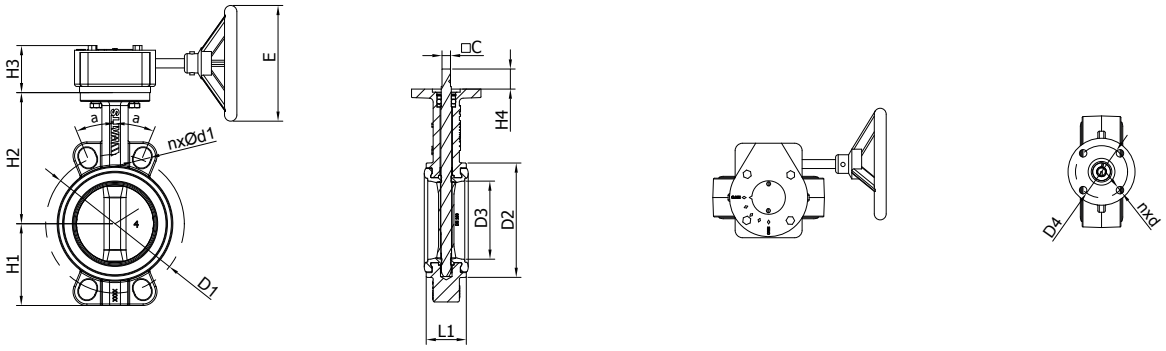
Wafer-Type (DN50-DN300)

1. Wafer-type lever operated midline butterfly valve



DN	H1	H2	H3	H4	L1	L	C	D1	n×Ø	α	D2	D3	D4	n×Ød
50	62	136	71.2	24	43	218	9	Ø125	4-Ø19	45°	Ø91	Ø54	Ø70	4-Ø10
65	70	145	71.2	24	46	218	9	Ø145	4-Ø19	45°	Ø108	Ø70	Ø70	4-Ø10
80	89	151	71.2	24	46	218	9	Ø160	4-Ø19	22.5°	Ø123	Ø85	Ø70	4-Ø10
100	106	170	71.2	26	52	218	11	Ø180	4-Ø19	22.5°	Ø148	Ø100	Ø70	4-Ø10
125	119	190	71.2	26	56	304	14	Ø210	4-Ø19	22.5°	Ø178	Ø128	Ø70	4-Ø10
150	131	203	71.2	26	56	304	14	Ø240	4-Ø23	22.5°	Ø205	Ø155	Ø70	4-Ø10

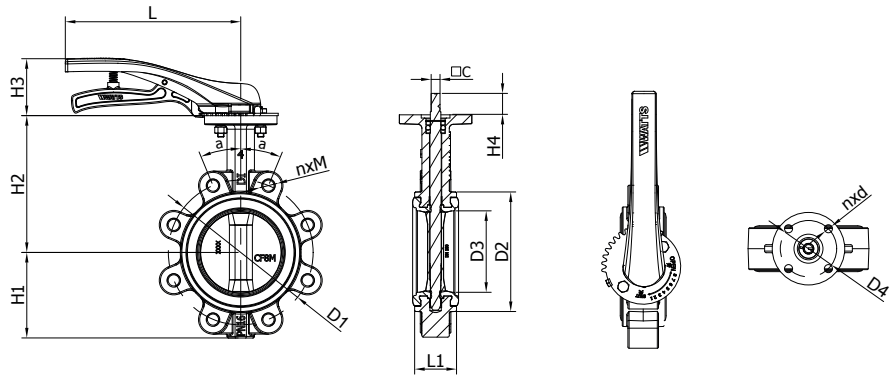
2. Wafer-type gear operated midline butterfly valve



DN	H1	H2	H3	H4	L1	ØE	C	D1	n×d1	α	D2	D3	D4	n×Ød
50	62	136	55,7	24	43	Ø142	9	Ø125	4×Ø19	45°	Ø91	Ø54	Ø70	4-Ø10
65	70	145	55,7	24	46	Ø142	9	Ø145	4×Ø19	45°	Ø108	Ø70	Ø70	4-Ø10
80	89	151	55,7	24	46	Ø142	9	Ø160	4×Ø19	22.5°	Ø123	Ø85	Ø70	4-Ø10
100	106	170	55,7	26	52	Ø142	11	Ø180	4×Ø19	22.5°	Ø148	Ø100	Ø70	4-Ø10
125	119	190	55,7	26	56	Ø142	14	Ø210	4×Ø19	22.5°	Ø178	Ø128	Ø70	4-Ø10
150	131	203	55,7	26	56	Ø142	14	Ø240	4×Ø23	22.5°	Ø205	Ø155	Ø70	4-Ø10
200	164	245.5	75	33	60	Ø258	17	Ø295	4×Ø23	15°	Ø262	Ø200	Ø102	4-Ø12
250	199	271	74	27	68	Ø258	22	Ø355	4×Ø28	15°	Ø314	Ø250	Ø102	4-Ø12
300	230	296	74	27	78	Ø258	22	Ø410	4×Ø28	15°	Ø366	Ø300	Ø102	4-Ø12

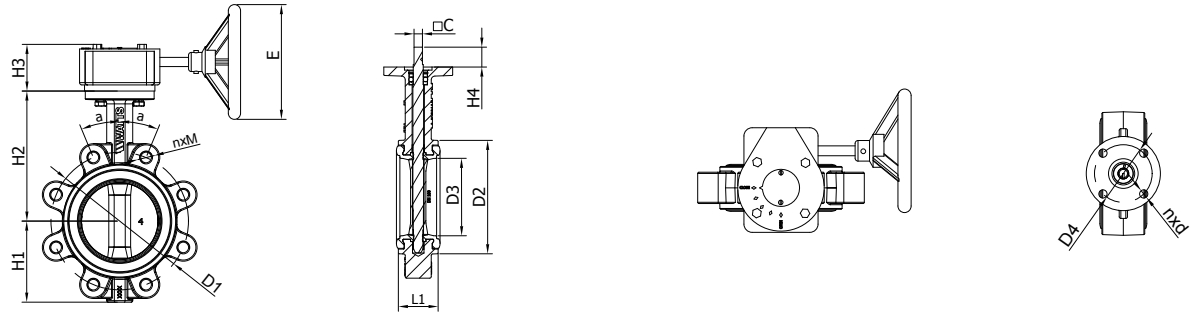
Lug-Type (DN50-DN300)

1.Wafer-type lever operated midline butterfly valve



DN	H1	H2	H3	H4	L	L1	C	D1	n×m	α	D2	D3	D4	n×Ød
50	62	136	95	24	218	43	9	Ø125	4×M16	45°	Ø91	Ø54	Ø70	4×Ø10
65	70	145	95	24	218	46	9	Ø145	4×M16	45°	Ø108	Ø70	Ø70	4×Ø10
80	89	151	95	24	218	46	9	Ø160	8×M16	22.5°	Ø123	Ø85	Ø70	4×Ø10
100	106	170	95	26	218	52	11	Ø180	8×M16	22.5°	Ø148	Ø100	Ø70	4×Ø10
125	119	190	30	26	304	56	14	Ø210	8×M16	22.5°	Ø178	Ø128	Ø70	4×Ø10
150	131	203	30	26	304	56	14	Ø240	8×M20	22.5°	Ø205	Ø155	Ø70	4×Ø10

2- Lug-type gear operated midline butterfly valve



DN	H1	H2	H3	H4	ØE	L1	C	D1	n×m	α	D2	D3	D4	n×Ød
50	62	136	66	24	Ø142	43	9	Ø125	4×M16	45°	Ø91	Ø54	Ø70	4×Ø10
65	70	145	66	24	Ø142	46	9	Ø145	4×M16	45°	Ø108	Ø70	Ø70	4×Ø10
80	89	151	66	24	Ø142	46	9	Ø160	8×M16	22.5°	Ø123	Ø85	Ø70	4×Ø10
100	106	170	66	26	Ø142	52	11	Ø180	8×M16	22.5°	Ø148	Ø100	Ø70	4×Ø10
125	119	190	66	26	Ø142	56	14	Ø210	8×M16	22.5°	Ø178	Ø128	Ø70	4×Ø10
150	131	203	66	26	Ø142	56	14	Ø240	8×M20	22.5°	Ø205	Ø155	Ø70	4×Ø10
200	164	245,5	82	33	Ø258	60	17	Ø295	12×M20	15°	Ø262	Ø200	Ø102	4×Ø12
250	199	271	82	27	Ø258	68	22	Ø355	12×M24	15°	Ø314	Ø250	Ø102	4×Ø12
300	230	296	84	27	Ø258	78	22	Ø410	12×M24	15°	Ø366	Ø300	Ø102	4×Ø12

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Socla sas
365 rue du Lieutenant Putier • 71530 Virey-Le-Grand • France
Tél. +33 03 85 97 42 00 • Fax +33 03 85 97 42 42
contact@wattswater.com • www.socla.com
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