PA Ventiler AB
EN DEL AV BEIJERTECH

ISO 9001 : 2015 BUREAU VERITAS Certification

REF. 207L

STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

Stainless steel double offset butterfly valve for chemical, pharmaceutical, food industry, cosmetic and industrial cold.
PTFE packing and PTFE seat for a temperature up to 220°C.
Fugitive emission according to EN 15848-1 :2015 BH Class and TA LUFT for an excellent tightness on the stem and to prevent external leakage.
Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.
With lockable lever in opened or closed position up to DN125 and gearbox over.
Thanks to the ISO 5211 plate, an actuator can be installed directly on the valve.
Valve in accordance with the regulation (EC) N° 1935/2004 on request.

SIL3 CE 1935/2004 FUGITIVE EMISSIONS ISO 15848-1 Certificate 3.1 Lloyd's Register PED/2014/68/UE



Size :	DN50 to DN300
Connection :	Between flanges PN10/16
Min Temperature :	-50°C
Max Temperature :	+220°C
Max Pressure :	16 Bars
Specifications :	Full crossing stem Lug type ISO 5211 direct mounting pad ATEX
Materials :	Stainless steel ASTM 351 CF8M

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SPECIFICATIONS :

- Long neck for isolation
- ISO 5211 direct mounting pad
- Lug type
- Between flanges PN10/16
- Full crossing stem
- Bidirectional
- Fugitive Emissions EN 15848-1 : 2015 BH Class and TA LUFT VDI 2440
- With lockable handle in opened of closed position up to DN125, Gear box over
- Stainless steel disc and body
- PTFE seat
- Tightness Class VI (no leakage)
- Stainless steel handle

USE :

- Chemical, pharmaceutical, food industry, cosmetic and industrial cold
- Min and max Temperature Ts : - 50°C to + 220°C
- Max Pressure Ps : 16 bars
- Vacuum : -0.94 bar max

RANGE :

- Lug double offset butterfly valve with handle from DN50 to DN125
- Lug double offset butterfly valve with gearbox from DN150 to DN300

TORQUE VALUE (in Nm without safety coefficient, add 15% for regulation use) :

NPS (")	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"
DN (mm)	50	65	80	100	125	150	200	250	300
PN10	12	20	31	45	52	110	150	206	314
PN16	17	25	40	58	65	135	226	304	471

CONNECTION :

- Between PN10/16 flanges

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FLOW COEFFICIENT Kv (m3 / h) :

		Opening angle							
NPS (")	DN (mm)	20°	30°	40°	50°	60°	70°	80°	90°
2"	50	16,4	23,4	30,3	37,2	46,7	56,2	65,7	75,3
2"1/2	65	14,7	22,5	29,4	37,2	53,6	70,9	87,4	104,7
3"	80	34,6	48,4	62,3	76,1	102,1	128,9	154,8	181,7
4"	100	34,6	76,1	118,5	160,9	210,2	259,5	307,1	357,2
5"	125	46,7	138,4	230,1	321,8	395,3	468,8	541,5	614,2
6"	150	61,4	196,4	314,0	431,6	548,4	666,1	783,7	901,3
8"	200	154,8	373,7	593,4	812,2	1018,1	1233,5	1431,6	1636,6
10"	250	276,8	583,0	888,4	1193,7	1592,5	1990,4	2389,1	2787,9
12"	300	309,7	790,6	1271,6	1753,4	2368,4	2983,4	3600,1	4215,1

HEAD LOSS CALCULATIONS :

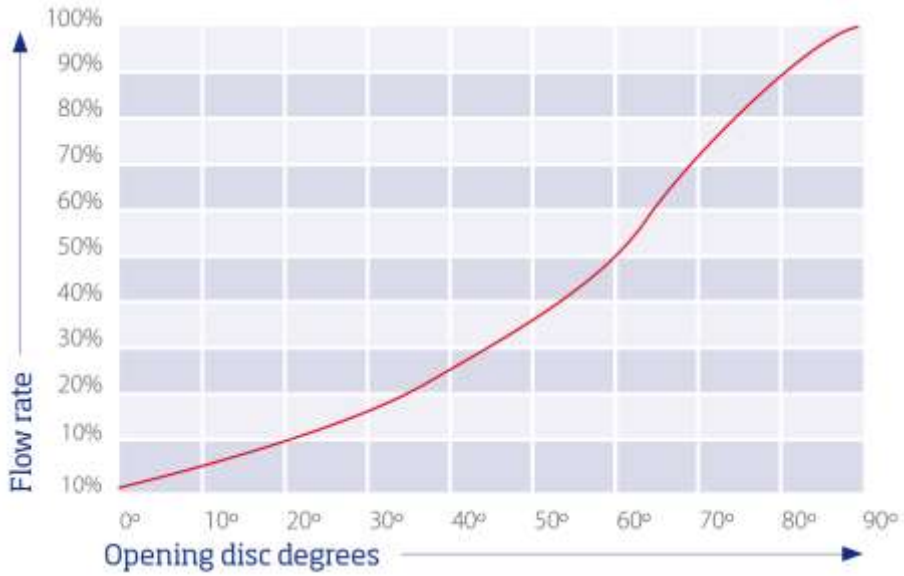
Δp = (Q / Kv)² x SG

Q : flow in m³/h

Δp : Head loss in bar

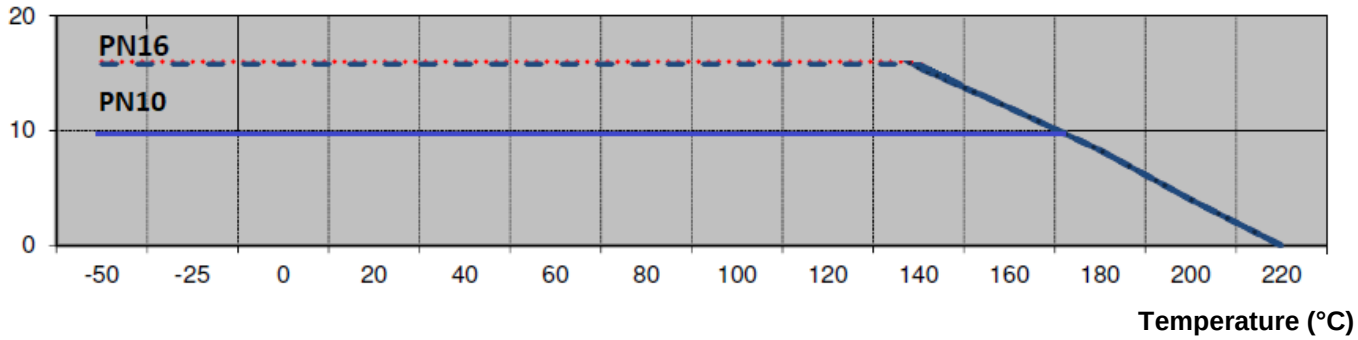
SG : Specific gravity (= 1 for water)

Kv : Volume of water in m³/h, that will flow through a given restriction or valve opening with a pressure drop of 1 bar at 20°C)



PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) WITH PTFE SEAT :

Pressure (Bar)



Temperature (°C)

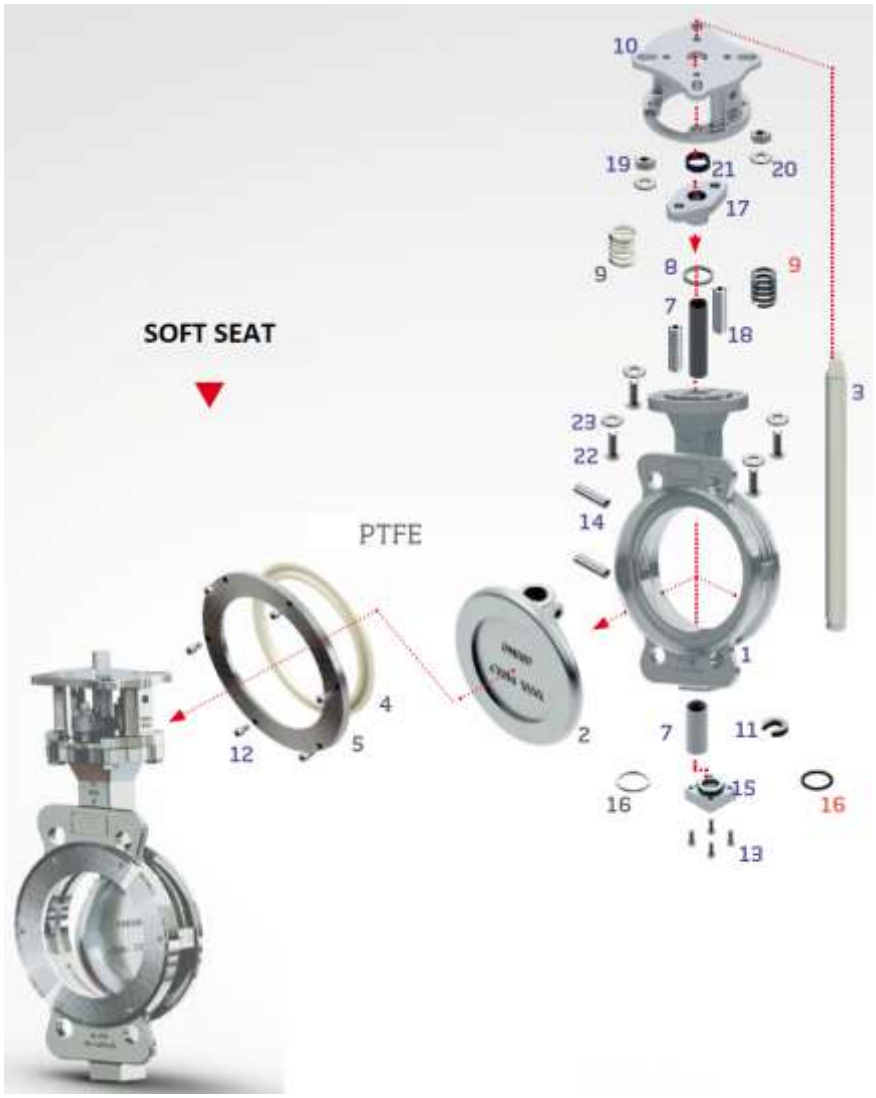
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MATERIALS :



REPAIRABILITY :



*Gaskets kit (Items 4, 7, 8, 9, 16 and 21)	
DN	**Ref.**
DN50	9865310
DN65	9865311
DN80	9865312
DN100	9865313
DN125	9865314
DN150	9865315
DN200	9865316
DN250	9865317
DN300	9865318

*included in gaskets kit

Item	Designation	Materials
1	Body	ASTM A351 CF8M
2	Disc	CF8M polished
3	Stem	Inox F-316
4*	Seat	PTFE
5	Flange	Inox F-316L
7*	Bushing	CF8M+PTFE
8*	Packing	
9*		PTFE
10	Yoke	ASTM A351 CF8M
11	Circlip	F-316
12	Flange screw	A4

Item	Designation	Materials
13	Cap screw	A4
14	Pin	A4
15	Cap	ASTM A351 CF8M
16*	Stem gasket	PTFE
17	Packing gland	CF8M
18	Yoke stud	A4
19	Nut	
20	Elastic ring	
21*	Gasket	CF8M+PTFE+Gr
22-23	Screw + elastic washer.	A4
	Handle	ASTM A351 CF8M

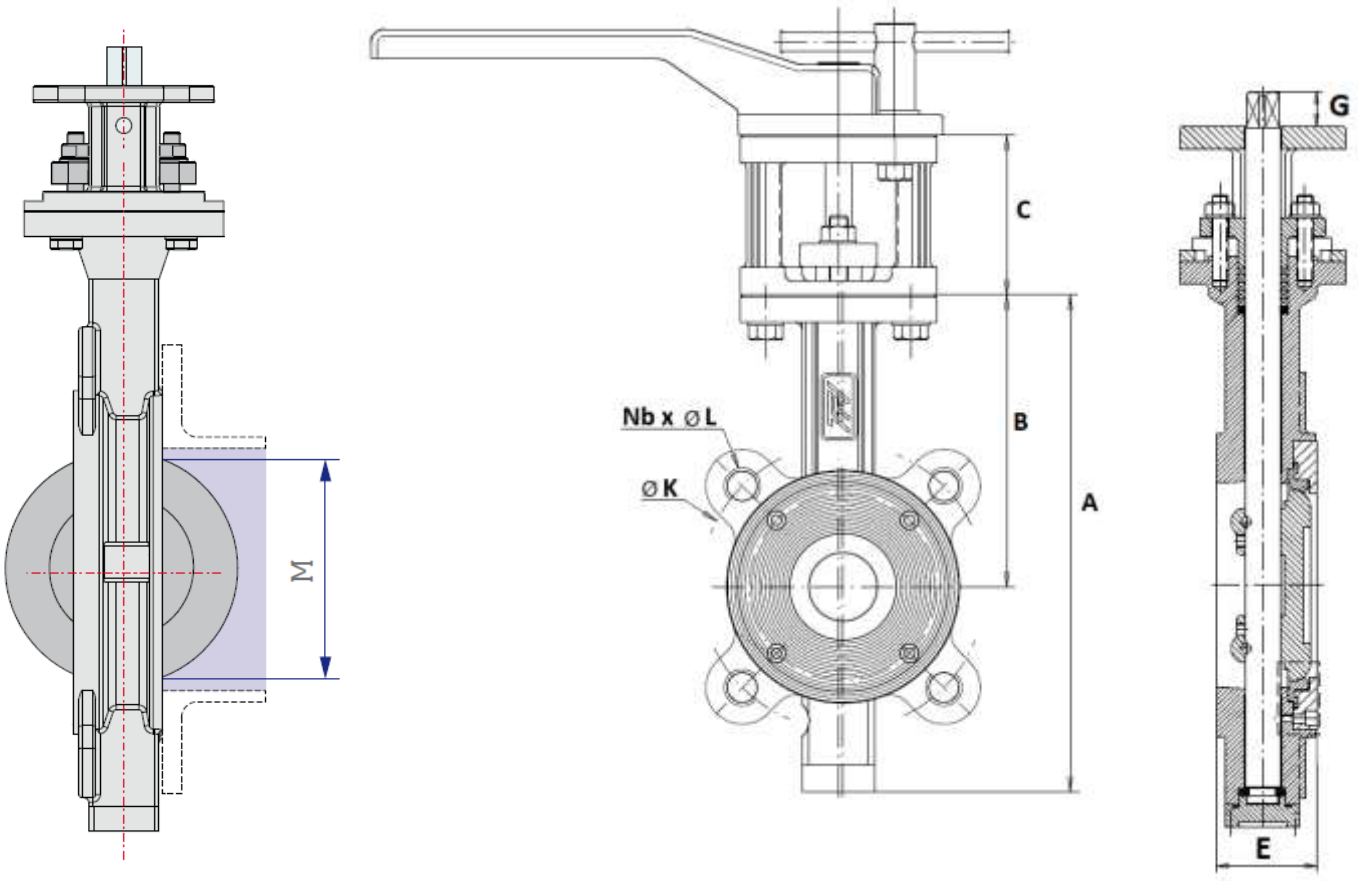
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STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

SIZE DN50-65 (in mm) :



PN	PN10/16	
DN (mm)	50	65
A	218	228
B	128	140
C	70	70
E	43	46.5
G	14	14
M	32	48
Ø K	125	145
Nb x Ø L	4 x M16	4 x M16
Weight (Kg)	7	8
Ref.	1119L050	1119L065

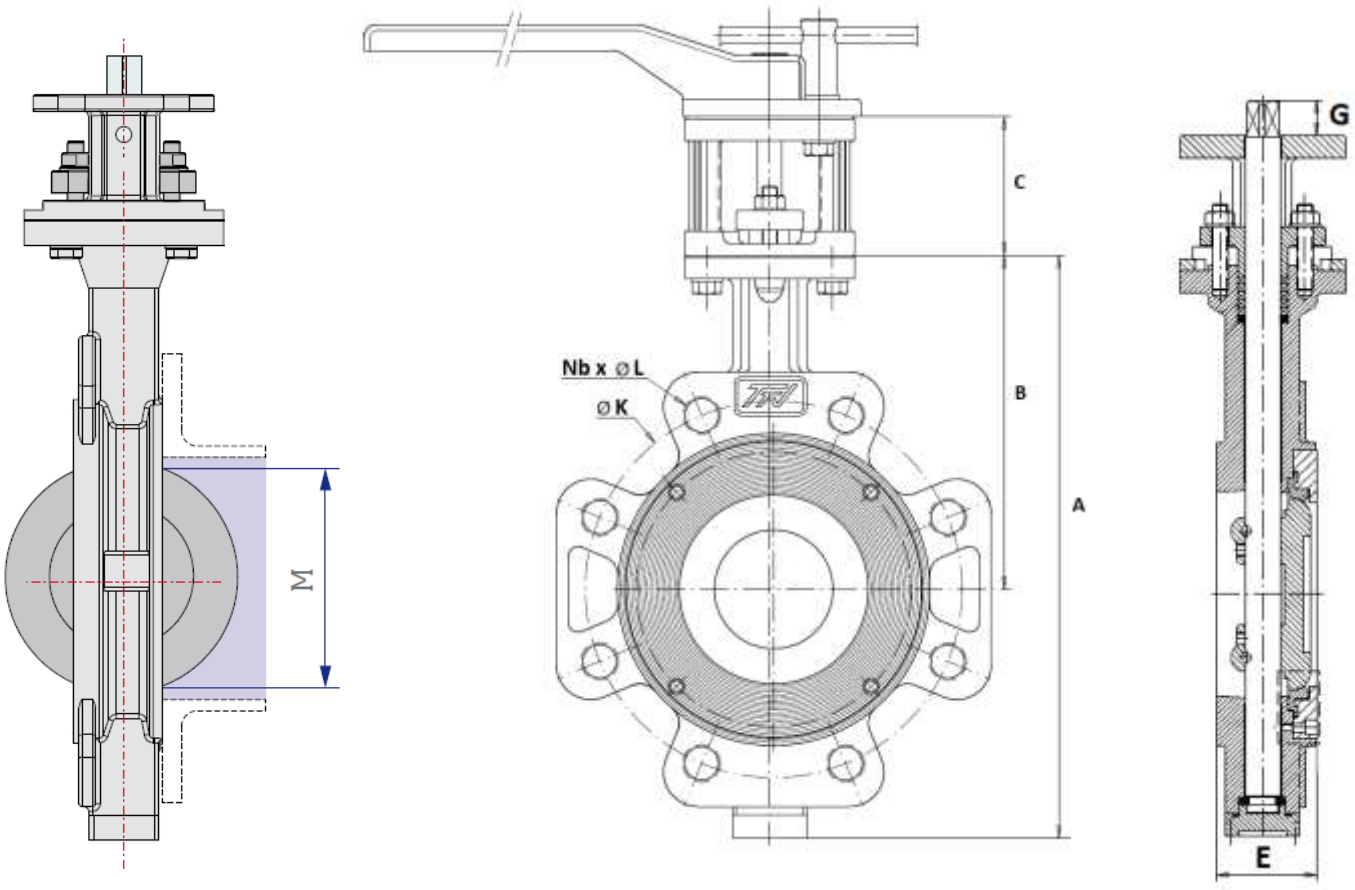
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STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

SIZE DN80-125 (in mm) :

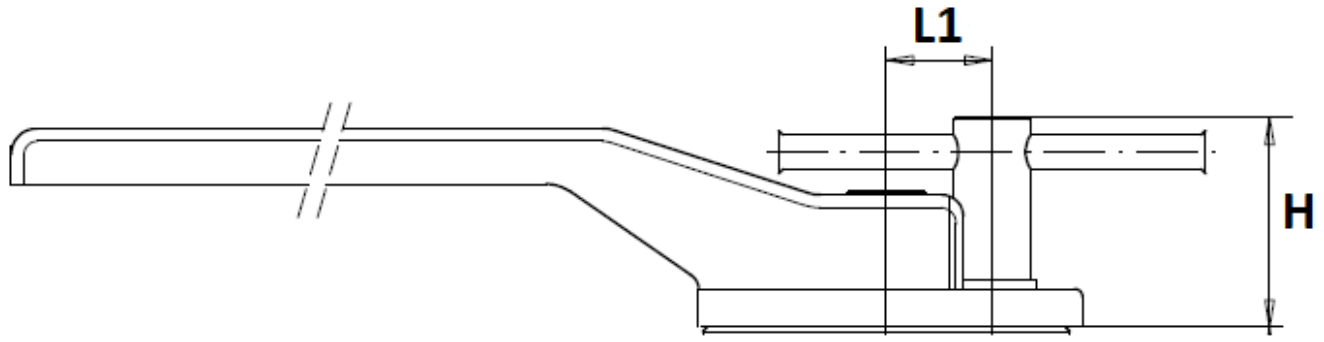


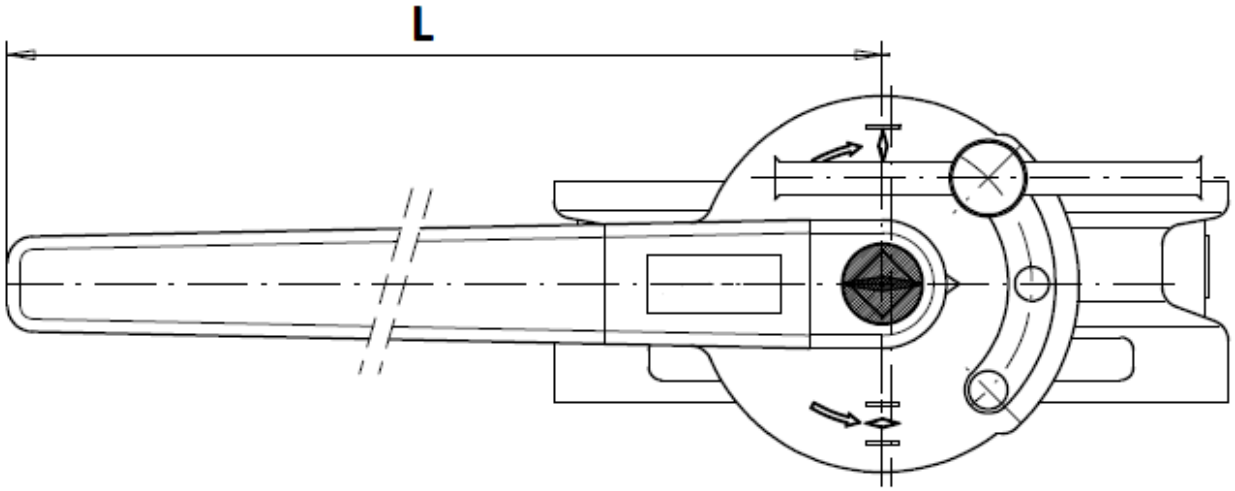
PN	PN10/16		
DN (mm)	80	100	125
A	259	295	350
B	148	169	200
C	70	70	80
E	47	52	56
G	15	18	22
M	70	90	116
Ø K	160	180	210
Nb x Ø L	8 x M16	8 x M16	8 x M16
Weight (Kg)	10	15.2	17.2
Ref.	1119L080	1119L100	1119L125

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STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

HANDLE SIZE (in mm) :





DN (mm)	50	65	80	100	125
NPS (")	2"	2"1/2	3"	4"	5"
L	205				330
L1	35				35
H	49				49
Weight (Kg)	1				1.2

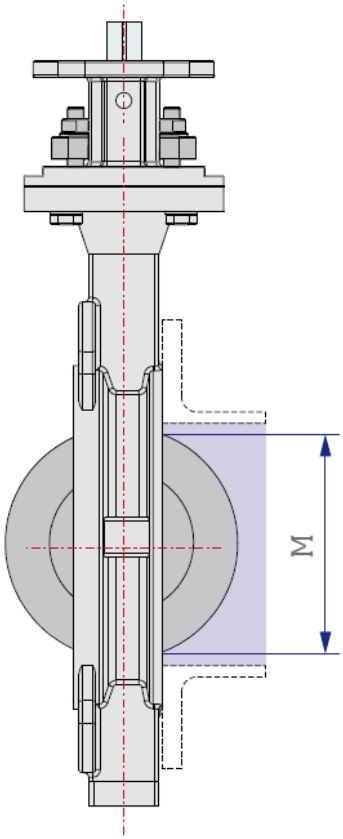
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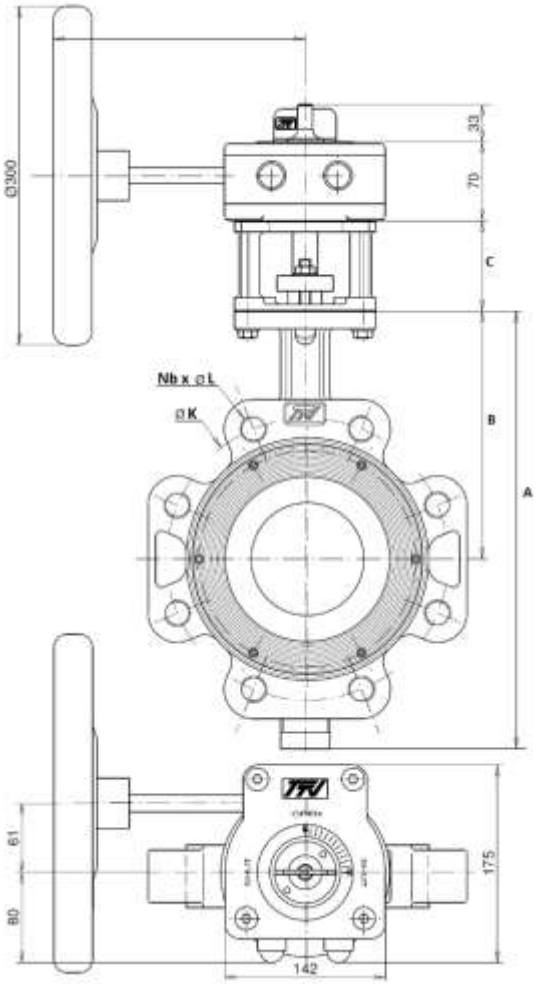
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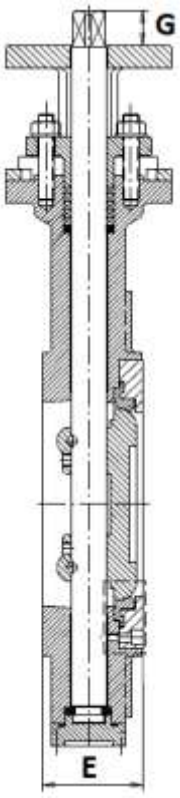
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STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

SIZE DN150-200 (in mm) :







PN	PN10/16	PN10
DN (mm)	150	200
A	388	450
B	220	250
C	80	90
E	56	63
G	24	32
M	141	187
Ø K	240	295
Nb x Ø L	8 x M20	8 x M20
Weight (Kg)	24	39
Ref.	1119L150	1119L200

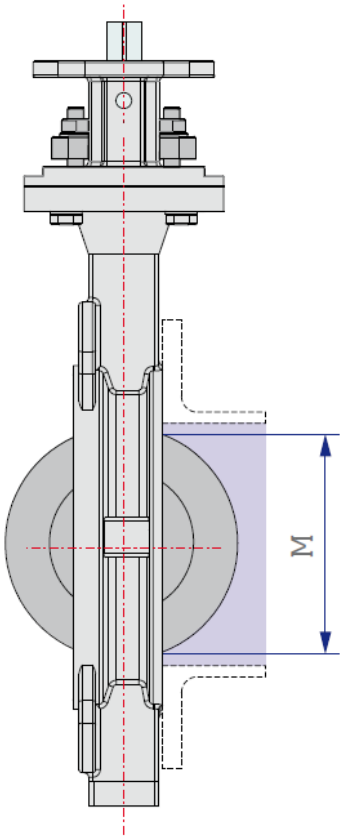
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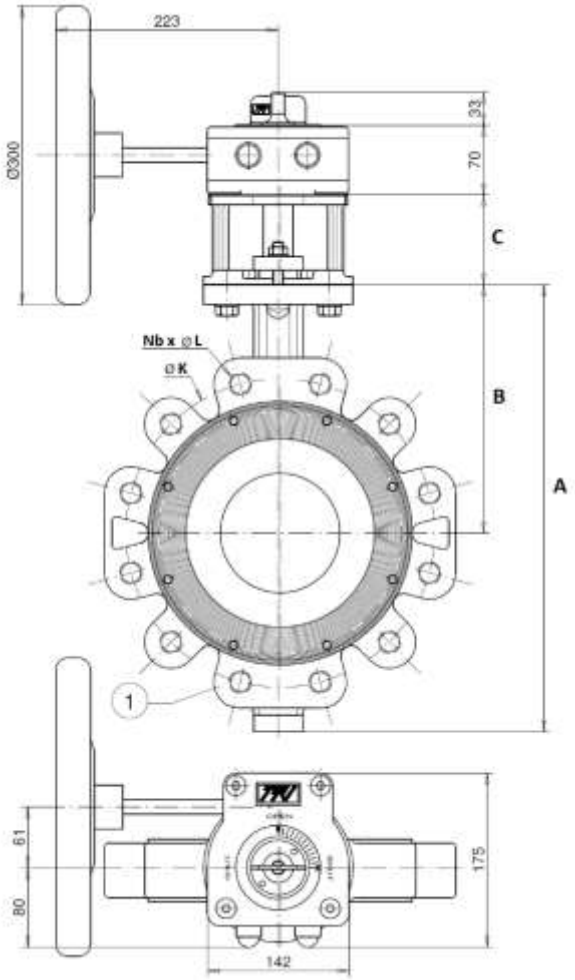
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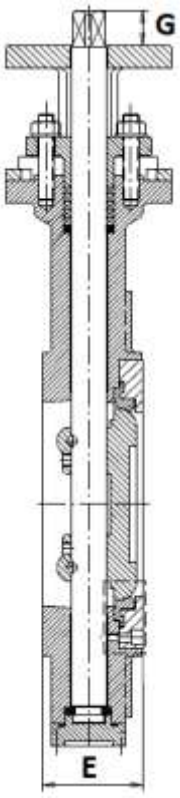
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STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

SIZE DN200 PN16 (in mm) :







PN	PN16
DN (mm)	200
A	450
B	250
C	90
E	63
G	32
M	187
Ø K	295
Nb x Ø L	12 x M20
Weight (Kg)	39
Ref.	1119L201

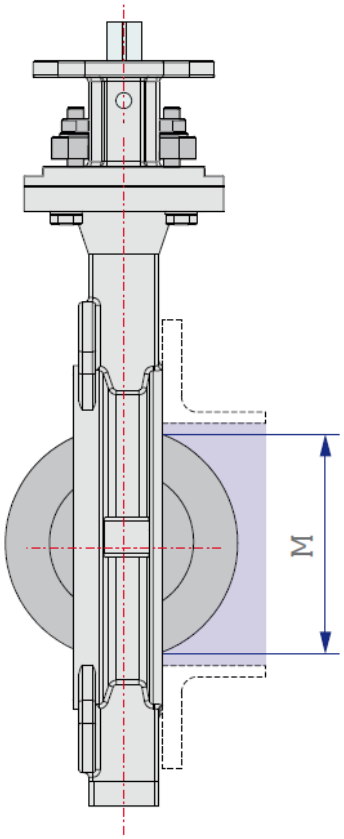
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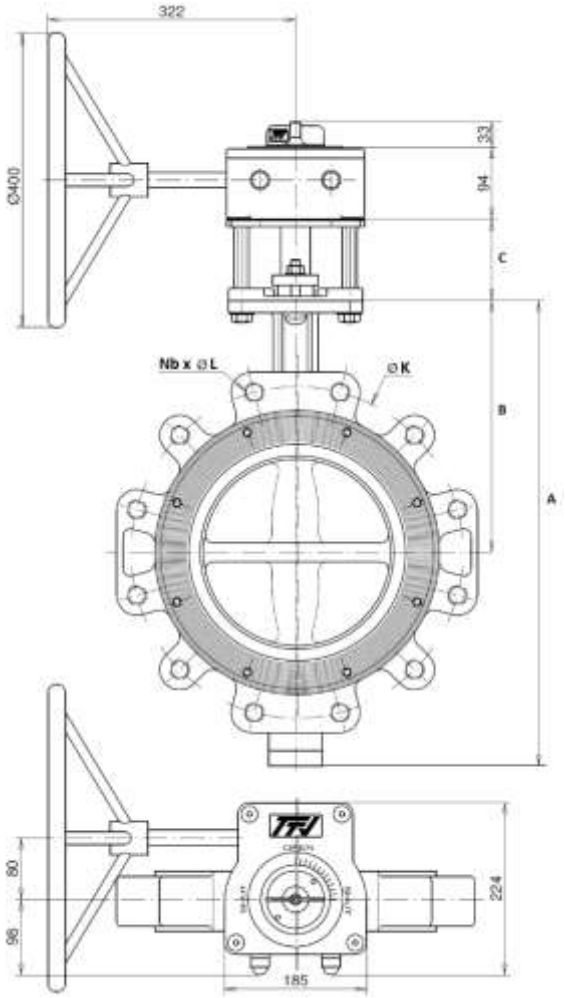
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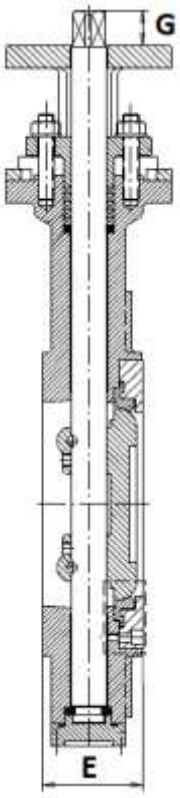
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STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

SIZE DN250-300 (in mm) :







PN	PN10	PN16	PN10	PN16
DN (mm)	250	250	300	300
A	523		606	
B	286		328	
C	106		106	
E	71		78	
G	39		50	
M	226		274	
Ø K	350	355	400	410
Nb x Ø L	12 x M20	12 x M24	12 x M20	12 x M24
Weight (Kg)	58.5	58.5	74.5	74.5
Ref.	1119L250	1119L251	1119L300	1119L301

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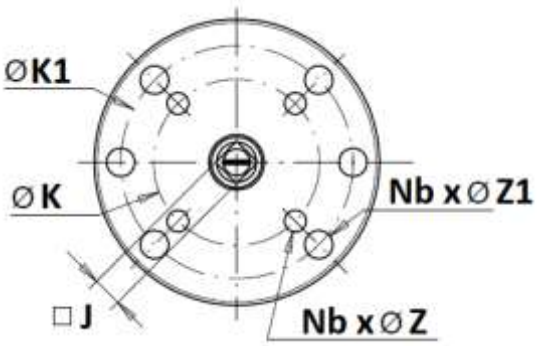
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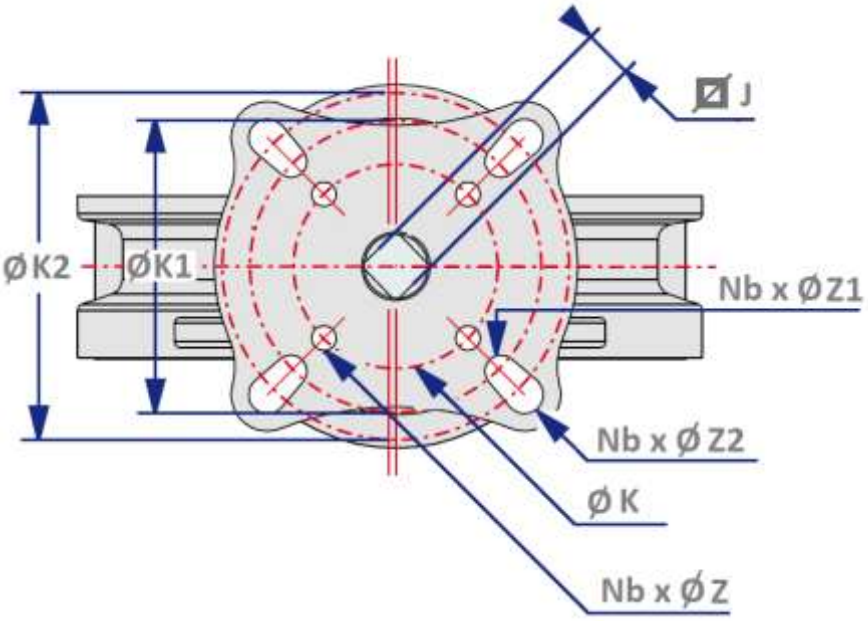
STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

ISO PLATE SIZE (in mm) :

DN50-100



DN125-300



NPS (")	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"
DN (mm)	50	65	80	100	125	150	200	250	300
J	9	11	14	14	17	17	22	22	27
Ø K	50				70		102	125	
ISO	F05				F07		F10	F12	
Nb x Ø Z	4 x 6.5				4 x 8.5		4 x 10	4 x 13	
Ø K1	70				102		125	140	
ISO 1	F07				F10		F12	F14	
Nb x Ø Z1	4 x 8.5				4 x 10		4 x 13	4 x 18	
Ø K2	-	-	-	-	125		140	165	
ISO 2	-	-	-	-	F12		F14	F16	
Nb x Ø Z2	-	-	-	-	4 x 13		4 x 18	4 x 22	

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STAINLESS STEEL DOUBLE OFFSET LUG BUTTERFLY VALVE PTFE SEAT PN10/16

STANDARDS :

- Manufacturer certified ISO 9001:2015
- Designing according to API 609 and EN 593
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
    - DN50 : Risk category I, CE marking
    - DN65-150 : Risk Category II, CE 0094 marking
    - DN200 : Risk Category II, CE 0094 marking for PN16 types
    - DN250-300 : Risk Category III, CE 0094 marking for PN16 types
    - DN200-300 : Risk Category II, CE 0094 marking for PN10 types
- Certificate 3.1 on request
- Tightness tests according to ISO 5208
- Between flanges according to EN 1092-1 PN10/16
- ISO 5211 mounting pad
- Length according to :
    - ISO 5752 short series 20
    - EN 558 series 20 (NF 29305)
    - BS 5155 series 4
    - API 609 Table 1
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 according to directive 2014/34/EU(Optional marking)
- Fugitive Emissions according to EN 15848-1 : 2015 BH Class and TA LUFT VDI 2440
- SIL2 according to IEC/EN 61508, SIL 3 possible according to installation
- Materials according to NACE MR 01-75 **on request**
- Valve in accordance with the regulation **(EC) N° 1935-2004 on request**

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