sferaco VALVES & FITTINGS

Excellence Range

REF. 1182

LUG BUTTERFLY VALVE FM FIRE NETWORK AND SPRINKLER EXCELLENCE RANGE

armat spol. s r.o.®
MADE OF STAINLESS ...

WARRANTY 5 years MANUFACTURE*

FM APPROVED

LLOYD'S REGISTER QUALITY ASSURANCE ISO9001

UKAS QUALITY MANAGEMENT 001

Lloyd's Register PED 97/23/CE

CE

Size :	DN 50 to 300 mm
Ends :	Between flanges PN10/16
Min Temperature :	- 10°C
Max Temperature :	+ 110°C
Max Pressure :	16 Bars
Specifications :	For fire network and sprinkler Lug type Full crossing stem Gear box with position indicator
Materials :	Ductile iron EN GJS-500-7 body

*the installation defects and wear defects are not covered by the guarantee

ARMAT spol. s. r. o., Řetová 82, 561 41 Řetová
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SPECIFICATIONS :

F.M. : Factory mutual
Long neck for isolation
For fire network (F.M. approved)
IP65 gearbox
Gear box with position indicator
Cast iron gear box
Valve indicator (indicate valve position : opened or closed)
Lug type (reinforced lug from DN200 to 300)
Between flanges PN10/16 up to DN150, PN16 over
Full crossing stem
Stainless steel disc up to DN100 included
Ductile iron epoxy coated disc (+/- 40 µ thickness) from DN125 to DN300
Rilsan coated body color RAL 5024 250-300 microns thickness

USE :

For fire network and sprinkler
Min and max Temperature Ts : - 10°C to + 110°C
Max Pressure Ps : 16 bars (see graph page 4)

RANGE :

Lug valve with FM gearbox **Ref. 1182** from DN 50 to DN 300

ENDS:

Between flanges PN10-PN16 up to DN150, PN16 over

TORQUE VALUE (in Nm with safety coefficient of 30 % included) :

DN	50	65	80	100	125	150	200	250	300
Torque (Nm)	11	20	29	47	82	130	210	360	475

FLOW COEFFICIENT Kvs (m3 / h) :

DN	50	65	80	100	125	150	200	250	300
Kvs (m3 / h)	109	200	334	551	901	1427	2383	3825	5659

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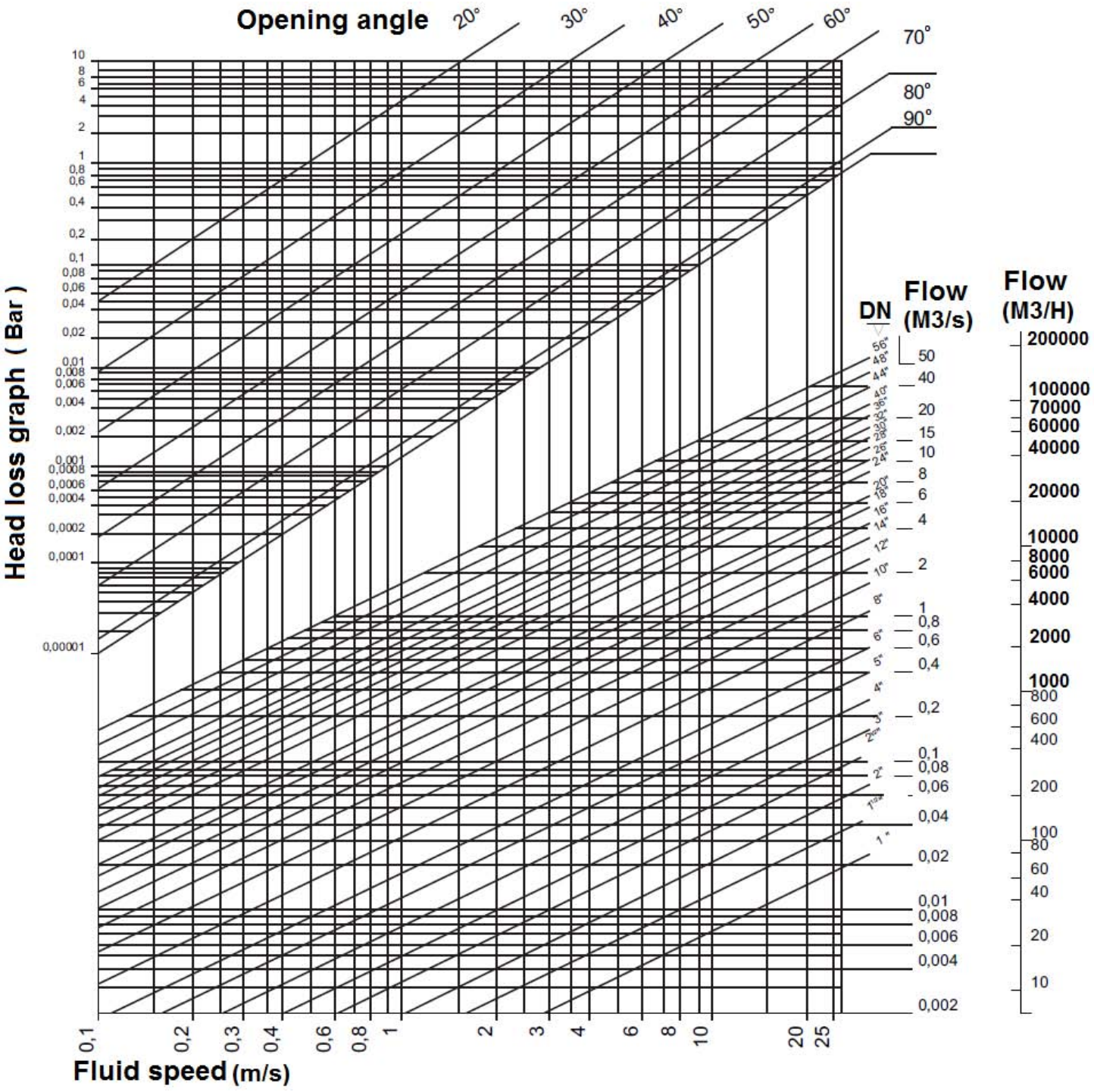
HEAD LOSS GRAPH :



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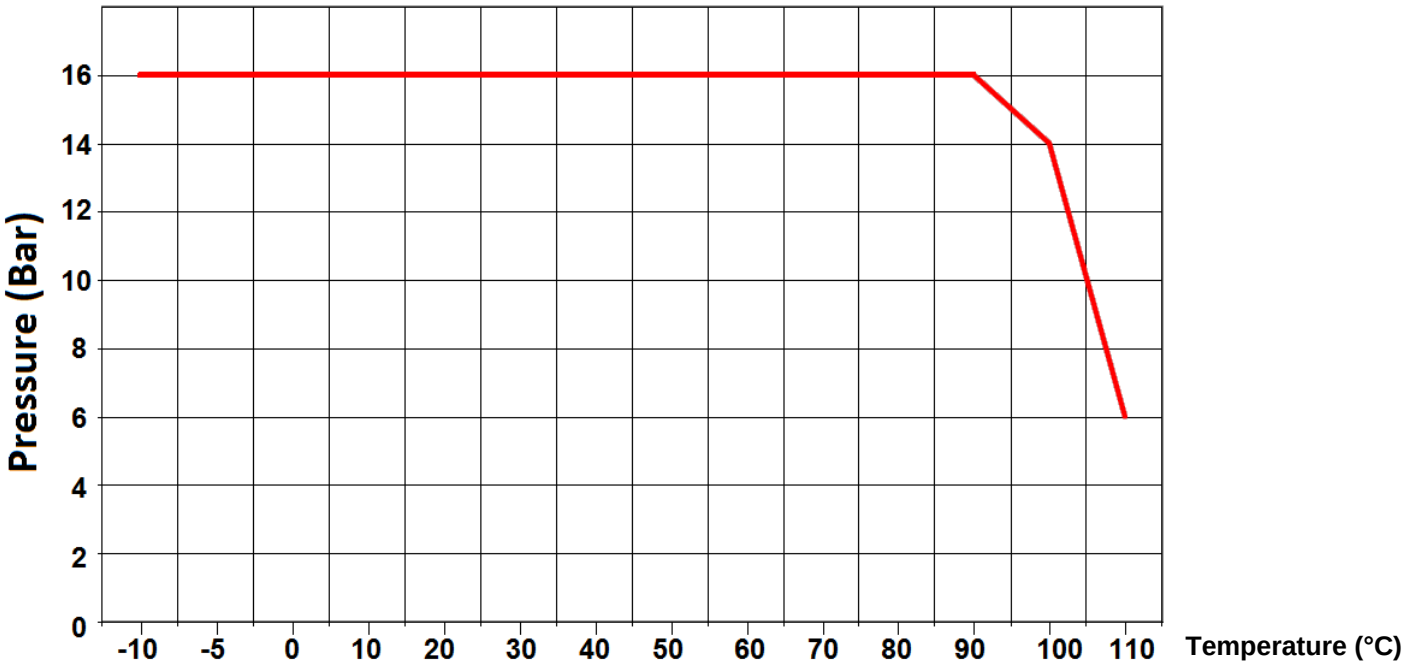
PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :



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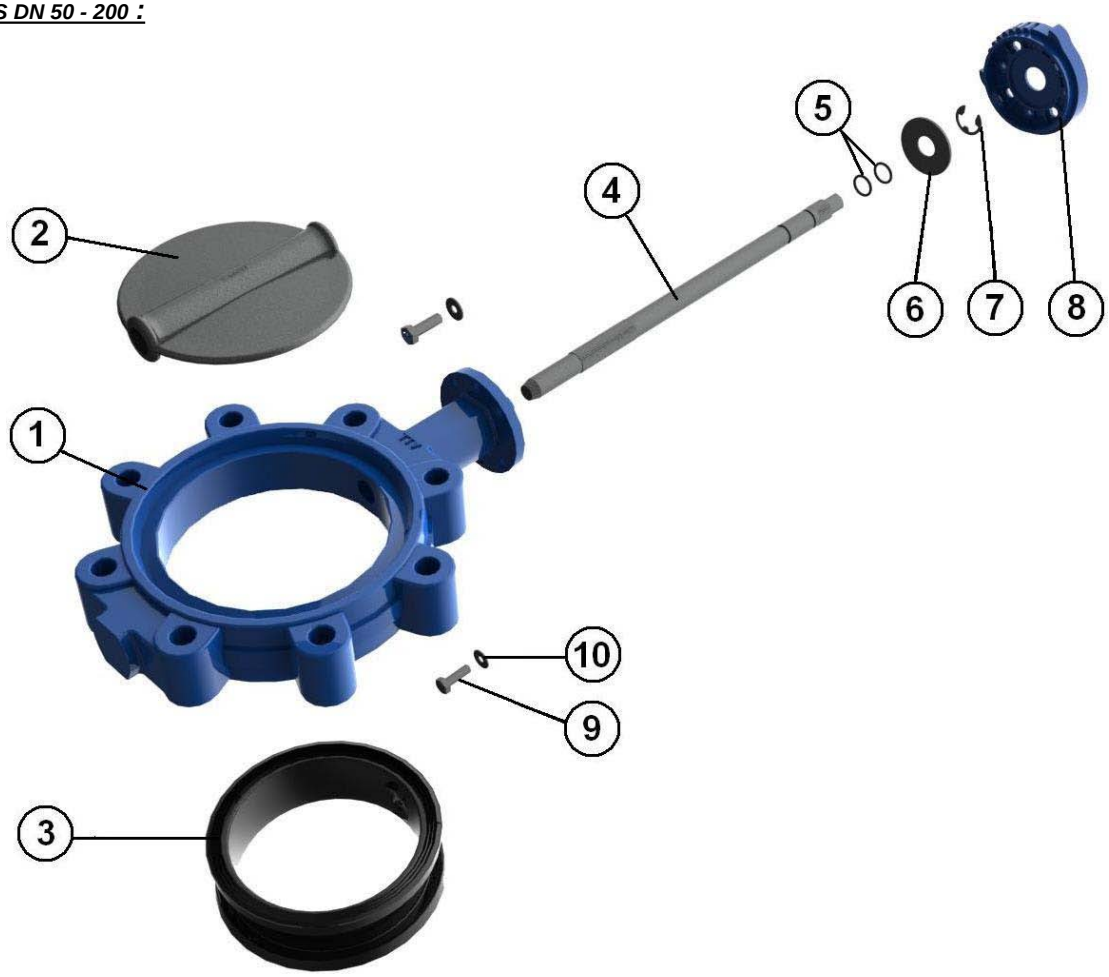
MATERIALS DN 50 - 200 :



Item	Designation	Materials
1	Body	Ductile iron EN GJS-500-7
2	Disc DN 50 -100	ASTM A351 CF8M
2	Disc DN125 - 200	Ductile iron EN GJS-500-7 epoxy coated
3	Seat	EPDM
4	Stem	SS 420
5	O ring	EPDM
6	Ring	Steel
7	Circlips	Steel
8	Plate	Aluminium
9	Plate screw	5.6
10	Washer	Steel

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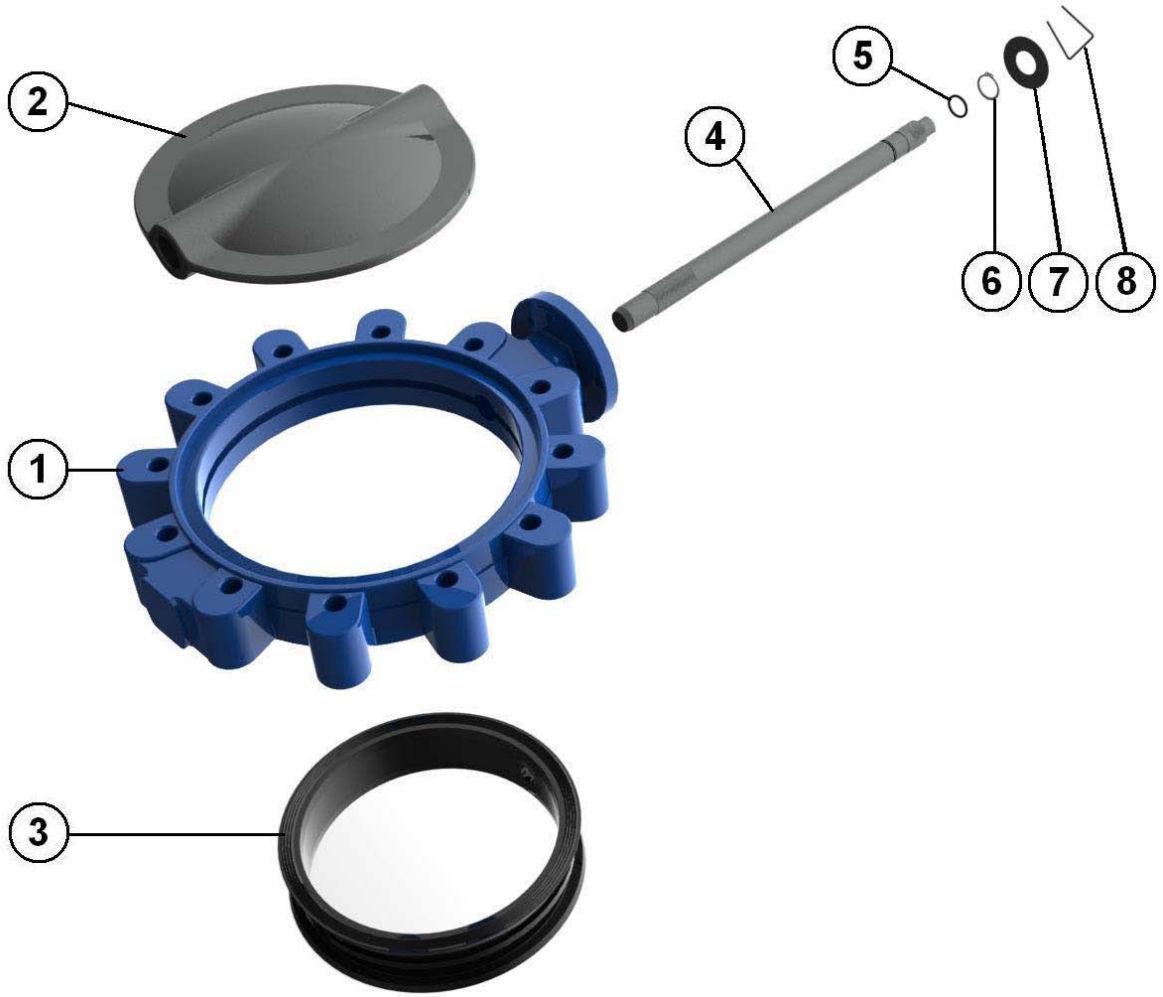
MATERIALS DN 250 - 300 :



Item	Designation	Materials
1	Body	Ductile iron EN GJS-500-7
2	Disc	Ductile iron EN GJS-500-7 epoxy coated
3	Seat	EPDM
4	Stem	SS 420
5	O ring	EPDM
6	Circlips	Steel
7	Ring	Steel
8	Spring	Steel

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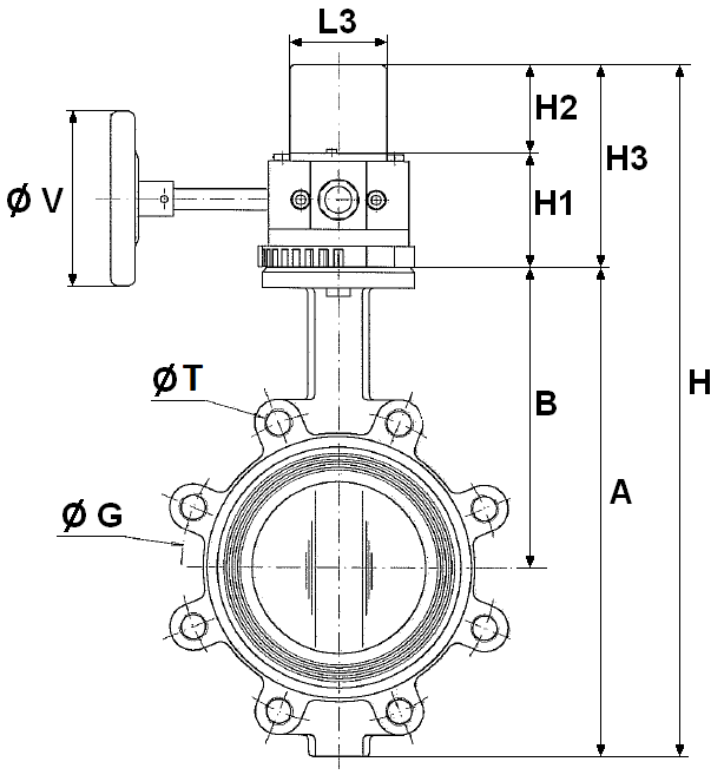
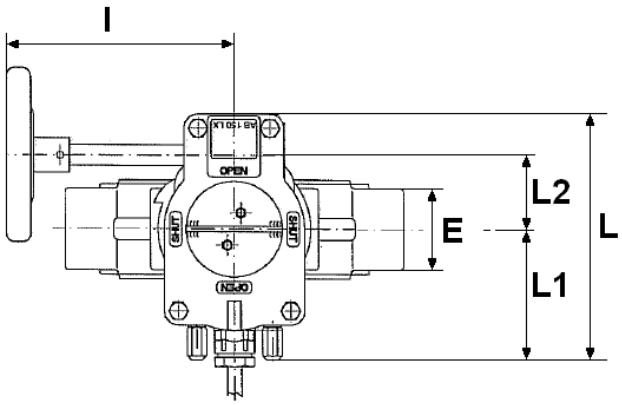
LUG BUTTERFLY VALVE FM FIRE NETWORK AND SPRINKLER EXCELLENCE RANGE

SIZE DN50-150 PN10/16 (in mm) :





DN	50	65	80	100	125	150
E	43	46	46	52	56	56
A	224	241	256	294	327	354
B	156	160	168	185	204	214
H	326	343	358	396	418	445
H1	48	48	48	48	54	54
H2	54	54	54	54	37	37
H3	102	102	102	102	91	91
L3	55	55	55	55	46	46
Ø V	100	100	100	100	250	250
I	130	130	130	130	192	192
L	141	141	141	141	178	178
L1	58	58	58	58	78	78
L2	42	42	42	42	50	50
Ø T	4 x M16	4 x M16	8 x M16	8 x M16	8 x M16	8 x M20
Ø G	125	145	160	180	210	240
Weight (in Kg)	6.5	7.5	9.5	11	16.5	17.5
Ref.	1182050	1182065	1182080	1182100	1182125	1182150

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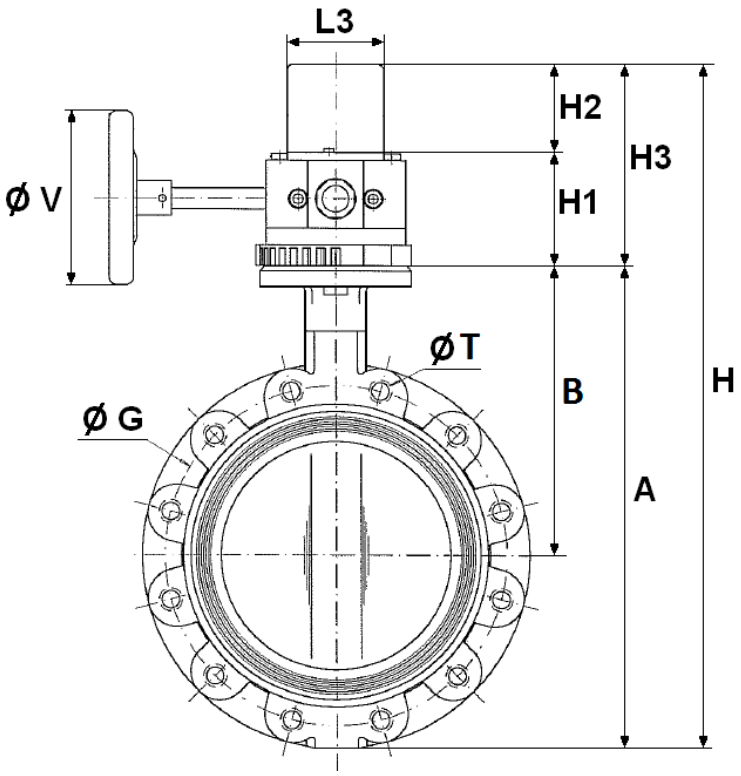
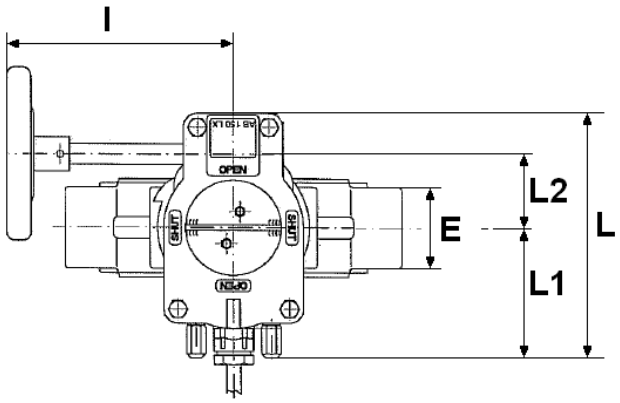
LUG BUTTERFLY VALVE FM FIRE NETWORK AND SPRINKLER EXCELLENCE RANGE

SIZE DN200-300 PN16 (in mm) :





DN	200	250	300
E	60	68	78
A	422	462	524
B	256	248	282
H	546	586	664
H1	78	78	84
H2	46	46	56
H3	124	124	140
L3	75	75	86
Ø V	250	250	315
I	231	231	225
L	209	209	232
L1	80	80	88
L2	71	71	86
Ø T	12 x M20	12 x M24	12 x M24
Ø G	295	355	410
Weight (in Kg)	35	40	61.5
Ref.	1182200	1182250	1182300

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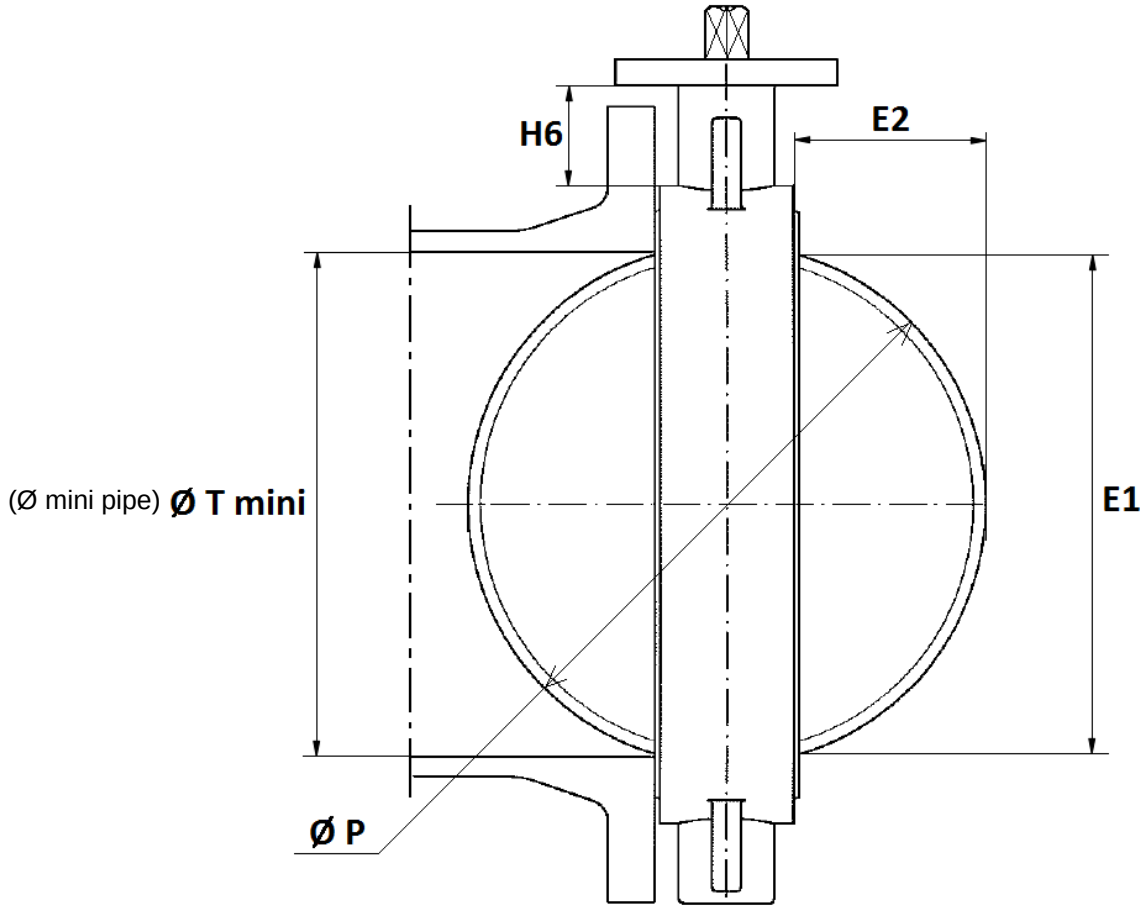
DISC AND NECK SIZE (in mm) :



DN	50	65	80	100	125	150	200	250	300
E1	24.5	46	65	85	109	136	188	238	289
E2	3.5	9.5	17	24	33.5	45.5	69	90	110.5
H6	82	80	80	88	93	89	99	71	76
Ø T mini	27.5	49	68	88	112	139	191	241	292
Ø P	50	65	80	100	123	147	198	248	299

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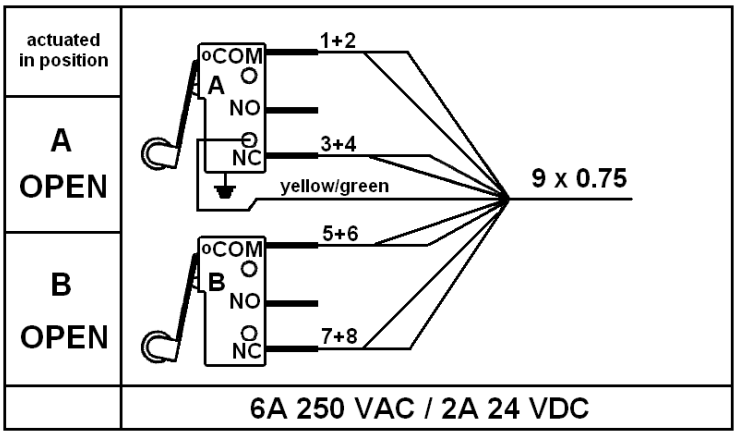
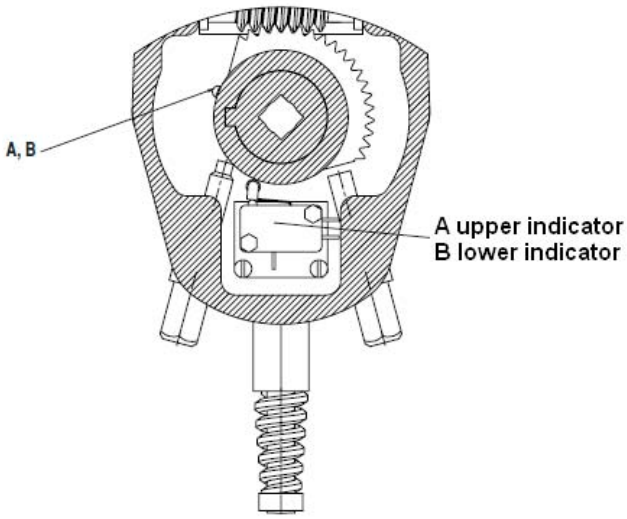
POSITION INDICATOR :

A double contact (incompleted opening position) , signal at the begining of closure.
9 wires cable 0.75 mm2 1 meter long





STANDARDS :

Fabrication according to ISO 9001:2008

DIRECTIVE 97/23/CE : CE N° 0038
Risk Category III module H

Designing according to NF EN 593 v 2004

Marking according to NFE 29-130

Pressure tests according to ISO 5208, range A

Between flanges according to EN 1092-2 PN10/16

ISO 5211 mounting pad

Length according to ISO 5752 short series 20, EN 558 series 20 (NF 29305),BS 5155 Wafer short/medium, DIN 3202 part 3, series K1

FM approved N°3025174 17/06/2008

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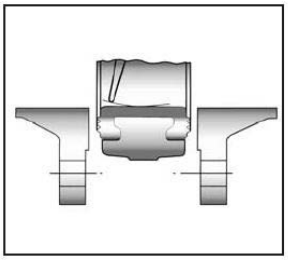
INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

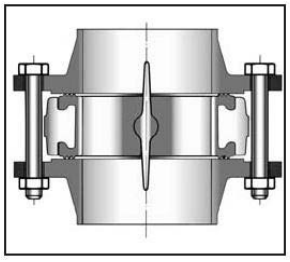
Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid,pressure and temperature).
Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
Ensure that the valves to be installed are of correct strenght to be able to support the capacity of their usage.
Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).

INSTALLATION INSTRUCTIONS :

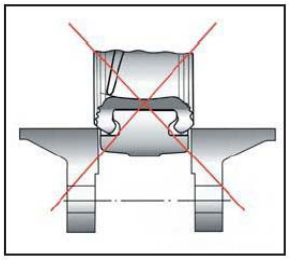
Before installing the valves,clean and remove any objects from the pipes (in particular bits of sealing and metal) which could obstruct and block the valves.
Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not,the valves may not work correctly).
Make sure that the two sections of the pipe (upstream and downstream) match,the valve unit will not absorb any gaps.Any distortions in the pipes may affect the thightness of the connection,the working of the valve and can even cause a rupture. To be sure,place the kit in position to ensure the assembling will work.
If sections of piping do not have their final support in place,they should be temporarily fixed.This is to avoid unnecessary strain on the valve.
The valve must be inserted between flanges with disc half opened but the disc must not overpass the valve thickness. Position the bolts to keep centered the valve. Then open fully the valve and tighten the bolts.
See graph under.



Half open valve introduction



Complete opened disc valves when screw tightening



Tighten the bolts in cross.
The disc must move easily inside the pipe.
Valves must be opened during cleaning operation.
Tests must be done with a cleaned pipe.
Tests must be done with opened valve. Test pressure must not be higher than the valve specification according to ISO 5208.
Then open slowly the valve.
Do not mount butterfly valves with stainless steel pressed collars and turning flanges without strias.
And not on flat face flanges without strias (example : painted cast iron fittings)

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MAINTENANCE :

We recommend to operate fully the valve 1 to 2 times per year.

During maintenance operation, ensure that the pipe isn't under pressure, that there's no fluid in the pipe and that the valve is isolated. If there's a fluid in the pipe , evacuate it. Ensure that there are no risks due to the temperature or the fluid (like acids). If the fluid is corrosive , inert the installation before maintenance operation.

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

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