

REF. 1100

WAFER BUTTERFLY VALVE PVC-U



Size : DN 65 to 200 mm
Ends : Between flanges GN10
Min Temperature : 0 °C
Max Temperature : + 40°C
Max Pressure : 10 Bars up to DN125
Specifications : 7 positions lever
Wafer type
Iso 5211 mounting pad

Materials : PVC-U body

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SPECIFICATIONS :

- ISO 5211 mounting pad
- Wafer type
- Between flanges GN10
- 7 positions lever without locking device

USE :

- Cold water and pool type
- Min and max Temperature Ts : 0°C to + 40°C
- Max Pressure Ps : 10 bars up to DN125 and 6 bars from DN150 to DN200
- Δ P : 3 bars max

RANGE :

- With lever from DN 65 to DN 200

ENDS :

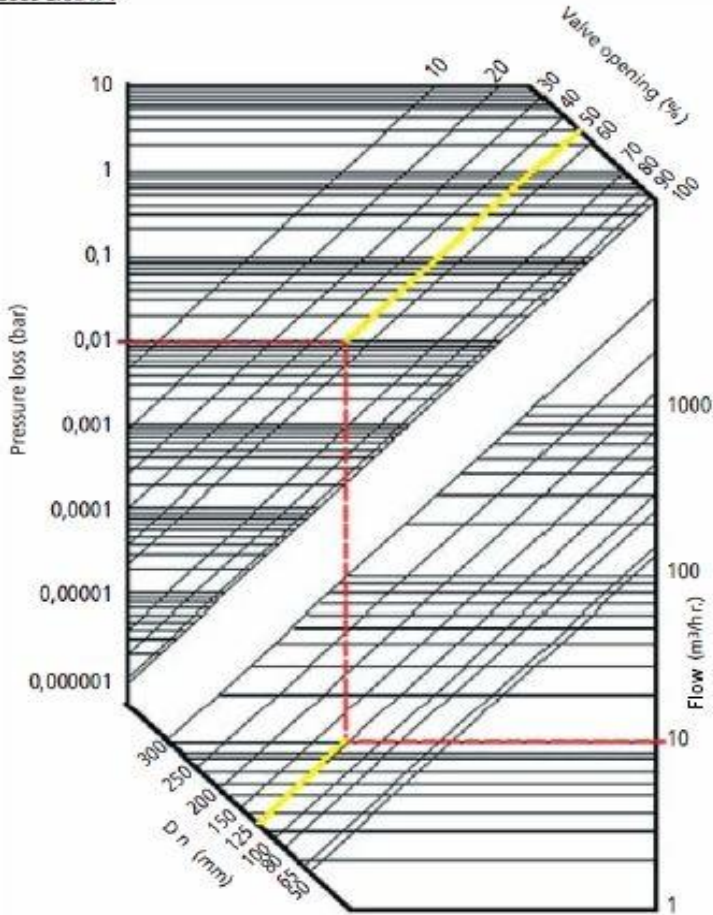
- Between flanges GN10

TORQUE VALUES (In Nm without safety coefficient) :

DN	65	80	100	125	150	200
Torque (Nm)	16	26	42	62	61	102

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HEAD LOSS GRAPH :



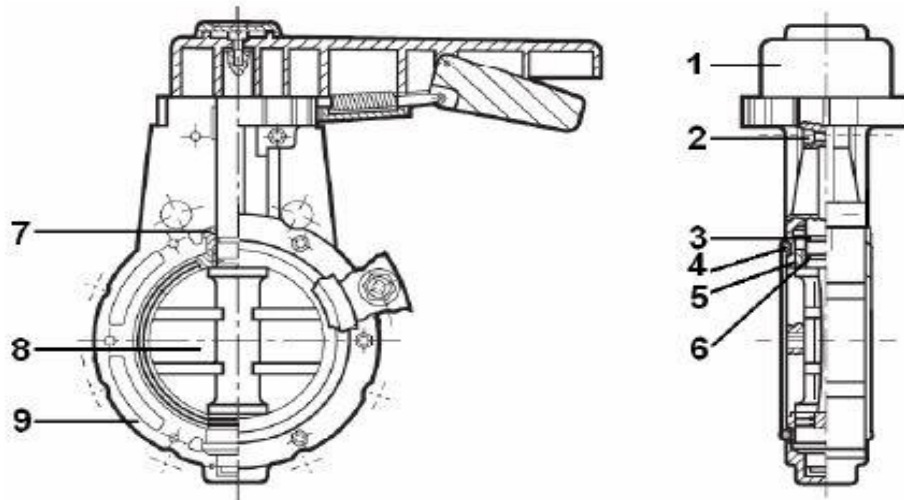
Example :

For a DN125 valve with a 50% opening and a flow of 10 m³/h, there will be 0.01 bar of pressure loss.

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MATERIALS :

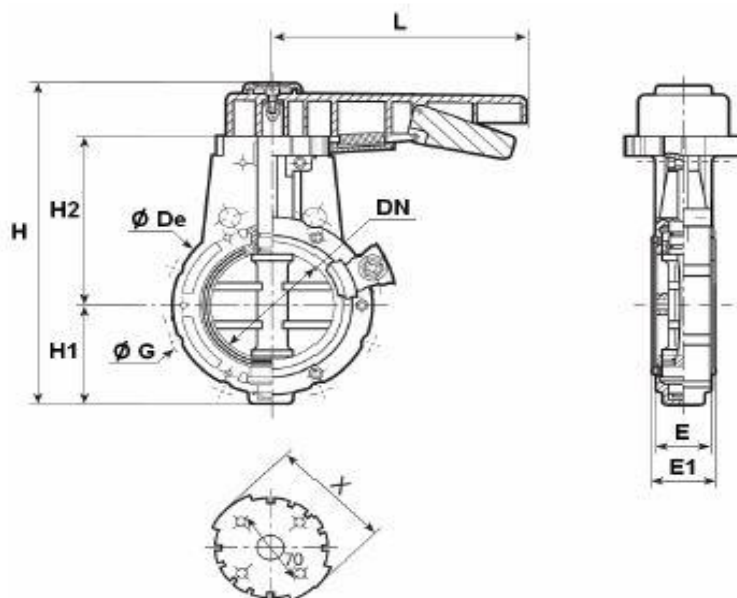


Item	Designation	Materials
1	Lever	ABS
2	Screw	Steel
3	Ring	PVC-U
4	O ring	EPDM
5	Gasket	EPDM
6	Seat	EPDM
7	Bearing	PTFE
8	Disc	PVC-U
9	Body	PVC-U

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SIZE GN10 (in mm):



DN	85	90	100	125	150	200
Ext. Ø tube	76	90	110	140	180	226
Ø De	130	144	164	184	220	290
E	60	60	61	68,6	84	72
E1	62,6	62,6	63	68	87	74,6
Ø G	146	180	180	210	240	296
H	239,6	264,6	298	310,8	346	407,7
H1	86	72	84,6	108,6	123	146
H2	128,6	134,6	163,6	163,6	174	216
L	209,6	209,6	209,6	209,6	299	299
X	103	103	103	103	103	103
Weight (Kg)	1,3	1,47	1,81	2,22	3,38	6,76

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BOLT TIGHTENING TABLE (in Nm) :

DN	65	80	100	125	160	200
Screw	M16	M16	M18	M18	M20	M20
Torque (Nm)	16-41	16-41	16-41	16-41	48-70	48-70

STANDARDS :

- Fabrication according to ISO 9001:2000
- DIRECTIVE 97/23/CE : Products excluded from directive (Article 1, § 3.2)
- Between flanges according to EN 1092-1 PN10
- ISO 5211 mounting pad
- Installation with flanges according to ISO 2536 ANSI

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.

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 strength 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 :

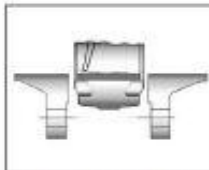
- Before installing the valves, clean and remove any objects from the pipes (in particular bits of sealing and metal) which could obstruct and block the valves.
- Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not, the valves may not work 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 tightness 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.

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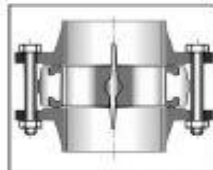
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INSTALLATION INSTRUCTIONS (SUITE):

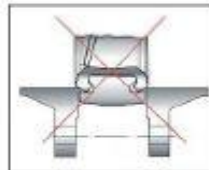
- If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the valve.
- The valve must be inserted between flanges with disc half opened but the disc must not overpass the valve thickness. Position the bolts to keep centered 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 EN 12286-1.
- Then open slowly the valve.
- Do not mount butterfly valves with stainless steel pressed collars and turning flanges.
- And not on flat face flanges without strias (example : painted cast iron fittings)

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.