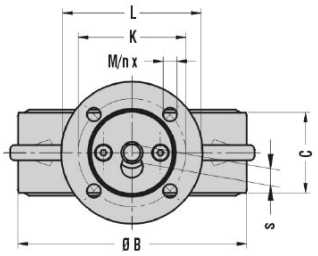
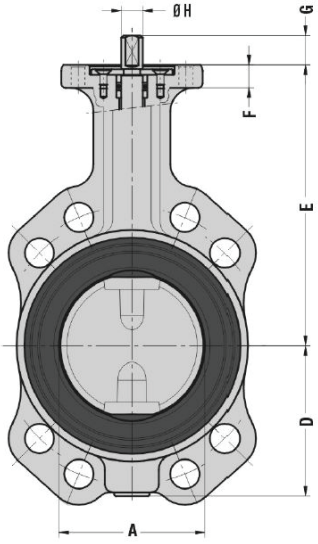
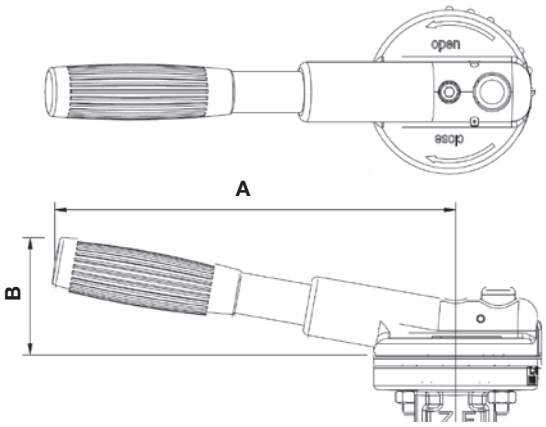
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HERZ - Cast Iron Butterfly Valves



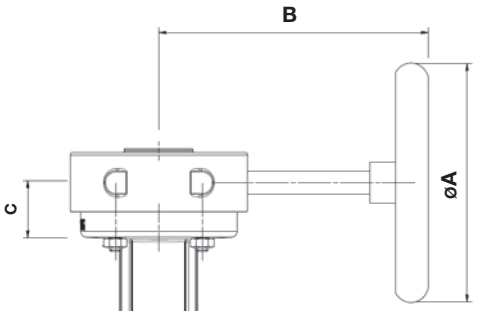






Lever dimensions			
DN	**A**	**B**	**kg**
50 - 80	195	60	0,4
100 - 125	240	65	0,7
150 - 200	390	70	0,9

For the dimensions DN250 and DN 300 hand-wheel with worm gear is used



Gearbox dimensions				
DN	**A**	**B**	**C**	**kg**
250 - 300	315	203	37	3

DN	Type BA	Type BB	A	B	C	D	E	F	G	H	s	ISO 5211	K	L	M	n	~ kg Type BA	~ kg Type BB
50	1 **4219** 01	1 **4219** 11	50,1	94	43	68	125	13	16	12	9	F05	70	88	9	4	3,56	4,167
65	1 **4219** 02	1 **4219** 12	63,6	112	46	80	149,5	12,5	16	12	9	F05	70	88	9	4	3,84	4,7
80	1 **4219** 03	1 **4219** 13	73,3	131	46	88	156,5	12,5	16	12	9	F05	70	88	9	4	4,515	6,085
100	1 **4219** 04	1 **4219** 14	97,1	150	52	102	182	15	21	18	14	F07	70	88	9	4	6,07	7,74
125	1 **4219** 05	1 **4219** 15	122	179,5	56	120	201	15	21	18	14	F07	70	88	9	4	8,07	9,941
150	1 **4219** 06	1 **4219** 16	145,6	205	56	132	214	15	21	18	14	F07	70	88	9	4	9,84	12,38
200	1 **4219** 07	1 **4219** 17	195	262	60	163	245	18	24	22	17	F07	70	88	9	4	15	19,18
250	1 **4219** 08	1 **4219** 18	244,5	316	68	191,5	283	20	30	28	22	F10	102	130	11	4	24,1	31,23
300	1 **4219** 09	1 **4219** 19	297,6	366	78	216	308	20	30	28	22	F10	102	130	11	4	34,42	43,35

Minimum operating temperature **- 20 °C**
Maximum operating temperature **110 °C**
Maximum operating pressure (DN 50 - 200) **16 bar** (for water)
Maximum operating pressure (DN 250 - 300) **10 bar** (for water)

HERZ butterfly valves are available in sizes of 50 to 300.
The flow can be limited by default. The default settings are indicated by the position of the lever.



Function

The butterfly valves can be used as isolating and regulating valves, which is achieved by the lever locking in the notch plate.
The lever is made of fiberglass-reinforced polyamide with spring-activated locking mechanism and integrated locking hole.
The top flange is made for the standard gears and actuating drives according to an ISO 5211.
The rubber liner protects the body against internal corrosion. No additional seals are required.
After final mounting the body of the butterfly valve is tested on body strength, body leakage, seat tightness and functionality according to an ISO 5208.

Field of application

Suitable for water and air systems in heating, cooling, air conditioning, ventilation, fire fighting applications and for agriculture. The valves are suitable for water and air.

The butterfly valves have the body Type “BA, WT”: JL 1040, according to EN 1561, Type “BB, LT ‘: JS1030, according to EN 1563.

The body has blue color (RAL 5000). Inside the body is a rubber liner made of EPDM in accordance with an ISO 1691, the disc is made of carbon steel, covered with nickel and the drive shaft spit into 2 parts is made of Stainless Steel 1.4408 according to EN 10088.

The valves are available in Semi-lugged (type BA, WT) or Fully-lugged (type BB, LF) versions.

Type „BA, WT“

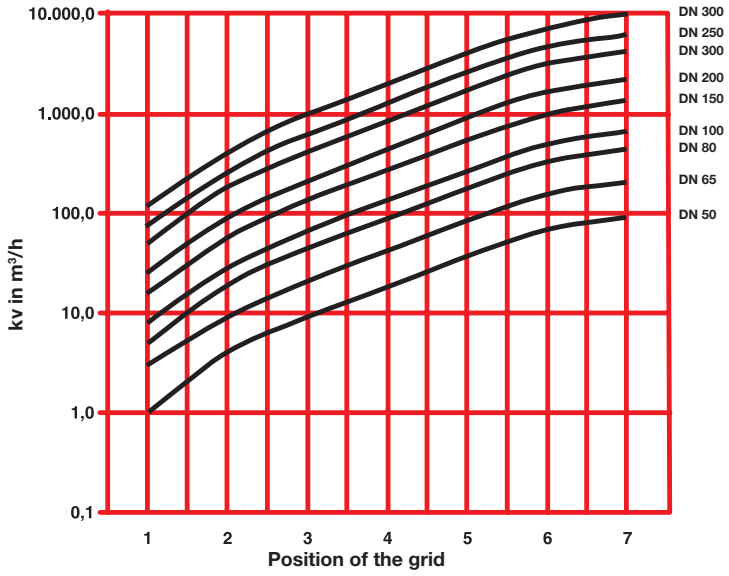


Type „BB, LT“



DN	Dim.	kv	zeta
50	2"	91 m³/h	1,18
65	2,5"	206 m³/h	0,66
80	3"	436 m³/h	0,34
100	4"	660 m³/h	0,36
125	5"	1300 m³/h	0,22
150	6"	2100 m³/h	0,18
200	8"	4100 m³/h	0,15
250	10"	6090 m³/h	0,17
300	12"	9570 m³/h	0,14

kv-value depending on the lever position



Herz Butterfly Valve Installation, Operation & Maintenance Instructions.

INSTALLATION

Pre-Installation Checklist

- Ensure Working conditions (pressure and temperature) are within the specified capacity of the product being installed. Please refer to the certified Engineering drawings to assist in determining these values.
- Make sure that the construction material of the Butterfly Valve is chemically compatible with the media flowing in the pipeline.
- Inspect the Butterfly Valve's flange ends and the pipeline's mating flanges to ensure the surfaces are clean and free of defects. The pipeline should also be checked for proper alignment. Herz Butterfly Valves should never be utilized to realign an existing piping system. The distance between pipe flanges should be checked to assure sufficient clearance for valve installation.
- The appropriate material handling equipment (joist and slings) should be available to lift larger units into position.

Installation Procedure

Step 1:
Herz Butterfly Valves are bi-directional and can be installed in a vertical or horizontal position. Check that the existing pipe sizes match the inlet and outlet sizes of the unit being installed. If pipeline strain is a concern with larger Butterfly Valves and accessories, additional support may be necessary.

Step 2:
Special flange gaskets are not required because the extruded portion of the seat functions as a gasket.

Step 3:
Make sure the Butterfly Valve is in a closed position.

Step 4:
Place the Butterfly Valve into position. For wafer valves, the alien holes should be aligned to the flange bolt holes ensuring that the valve is centered; the bolt holes on the lug valves should be aligned with the flange bolting.

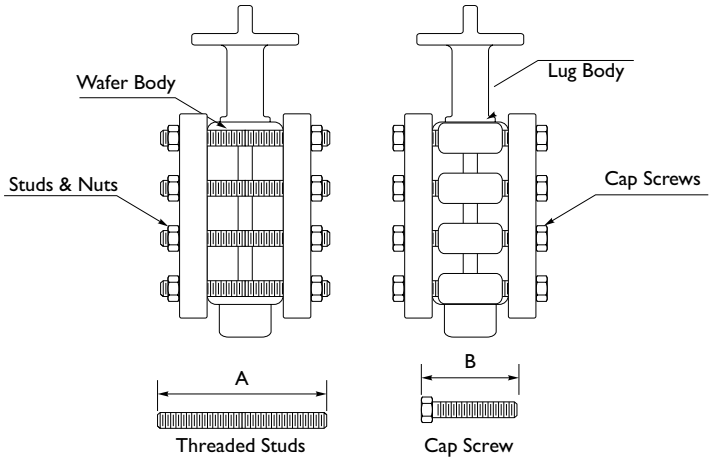


Figure1: Installation of Wafer and Lug type Butterfly Valves

Step 5:
Wafer valves are placed between flanges and installed with fully threaded studs. Tapped lug valves are installed between the flanges with small cap screws on the inlet and the outlet of the valve. (See Figure 1)
Step 6:
Install lubricated flange bolts and hand tighten.
Step 7:
Open valve slowly to make sure that the disc does not make contact with the piping or the flanges. Close the valve.

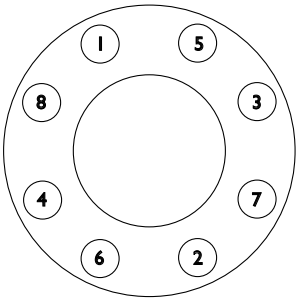


Figure 2: Bolting Sequence Pattern

Step 8:
Flange bolts should then be tightened, using a star or crisscross pattern to evenly load the bolts, in accordance with established piping standards. This is illustrated in Figure 2.

OPERATION

Once proper installation has been successfully completed, start the system gradually, at start up as well as after shut down. This eliminates sudden shock to the butterfly valve and other equipment in the line.

Start-up Procedure:

Step 1:
Gradually increase system pressure until working pressure is reached.
Step 2:
Inspect flange connections for leaks. If leaking occurs, check for piping misalignment, that the flange bolts are properly tightened, and that the cover is properly seated.
Step 3:
Adjusting flow from 0° (closed) to 90° (full flow) can be done manually or automatically depending on the type of butterfly valve installed. Manual operators are available in a 10 position handle, an infinite handle, and a gear operator. Automatic operation can be achieved with a pneumatic or electric operator.

MAINTENANCE

Herz Butterfly Valves require minimal regular maintenance. Below is a preventive checklist with recommended monthly practices:
• Adjust the valve from closed to full flow periodically
• Visually inspect fasteners, piping, wiring, and any related equipment for problems that could hinder operation such as loosening or corrosion.
• Check the valve and around the valve for any signs of leakage.