BV-10

BUTTERFLY VALVE

GENERAL FEATURES

In butterfly valves, the closing element is a rotating disc located on the vertical axis. When assembled, it rotates around its axis, forming a disc that opens or closes the full pipe section. Sealing is provided between the metal flap and the elastic or plastic sealing elements covering the inside of the body. The sealing element also acts as a gasket in the flange between the valve and the pipe. Advantages of such valves; low pressure losses, easy opening and closing, good sealing, light weight and small footprint.
While Ayvaz BV-10 Butterfly Valves are being mounted, it should be checked whether the disc moves freely. Valve shaft can be in horizontal or vertical position. However, horizontal mounting should be preferred on DN300.

Material
Body: ASTM A216 WCB CS
Clape: AISI316
Stem: AISI410
Connection
Wafer, Lug, Flanged
Temperature
Max. Operation Temperature: 120 °C

Applications
- Heating, ventilation and air conditioning systems
- Water treatment and distribution systems
- Mining industry
- Shipbuilding and drilling facilities
- Sugar industry, food and chemical enterprises
- Fire extinguishing systems
- Water, sea water, dust, gas, waste water and air

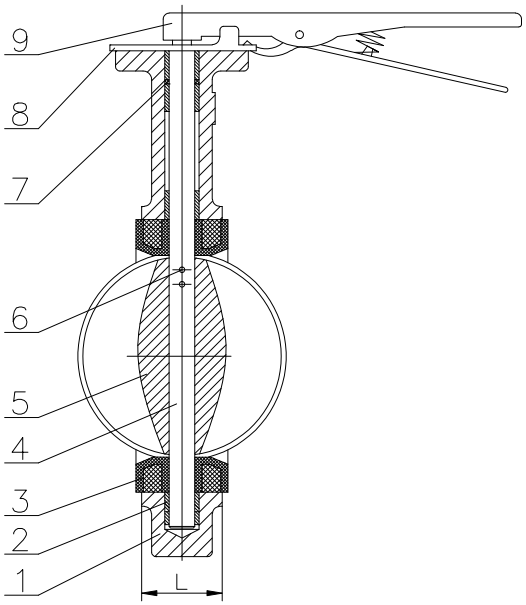
Notes
It is recommended to use reducer type for all diameters of butterfly valves. DN350 and above Butterfly valves are only produced with reducer.

Actuators
- Hand Operated
- Gear Operated
- Single Acting Pneumatic Actuator
- Double Acting Pneumatic Actuator
- Electric Actuated/On-Off (Manual Lever Addition)

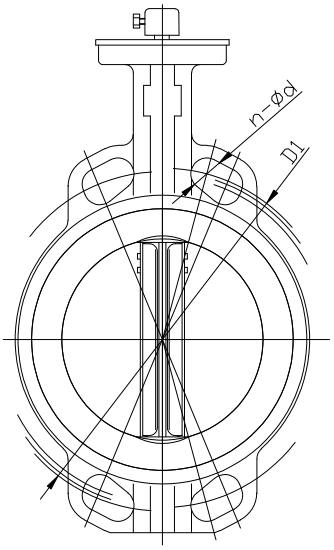
Pressure Class	DIA (mm)
CLASS 150	DN (25-300)

Gasket	Min. Temp. (°C)	Max. Temp. (°C)
EPDM	-10	120

BV-10 BUTTERFLY VALVE



PART LIST		
1	Body	A216 WCB
2	Sealing	FRP
3	Seat	EPDM
4	Shaft	A276 410
5	Disc	A351 CF8M
6	O-Ring	NBR
7	Lever	CAST IRON



BV-10 CLASS 150				
DIA	DN	D1	n -ød	L
1 1/2"	40	98.4	4-ø16	33
2"	50	120.7	4-ø19	42
2 1/2"	65	139.7	4-ø19	44.7
3"	80	152.4	4-ø19	45.2
4"	100	190.5	8-ø19	52.1
5"	125	215.9	8-ø22	54.4
6"	150	241.3	8-ø22	55.8
8"	200	298.5	8-ø22	80.6
10"	250	362.0	12-ø25	65.6
12"	300	431.8	12-ø25	76.9
14"	350	476.3	12-ø25	76.5
16"	400	539.8	12-ø25	86.5

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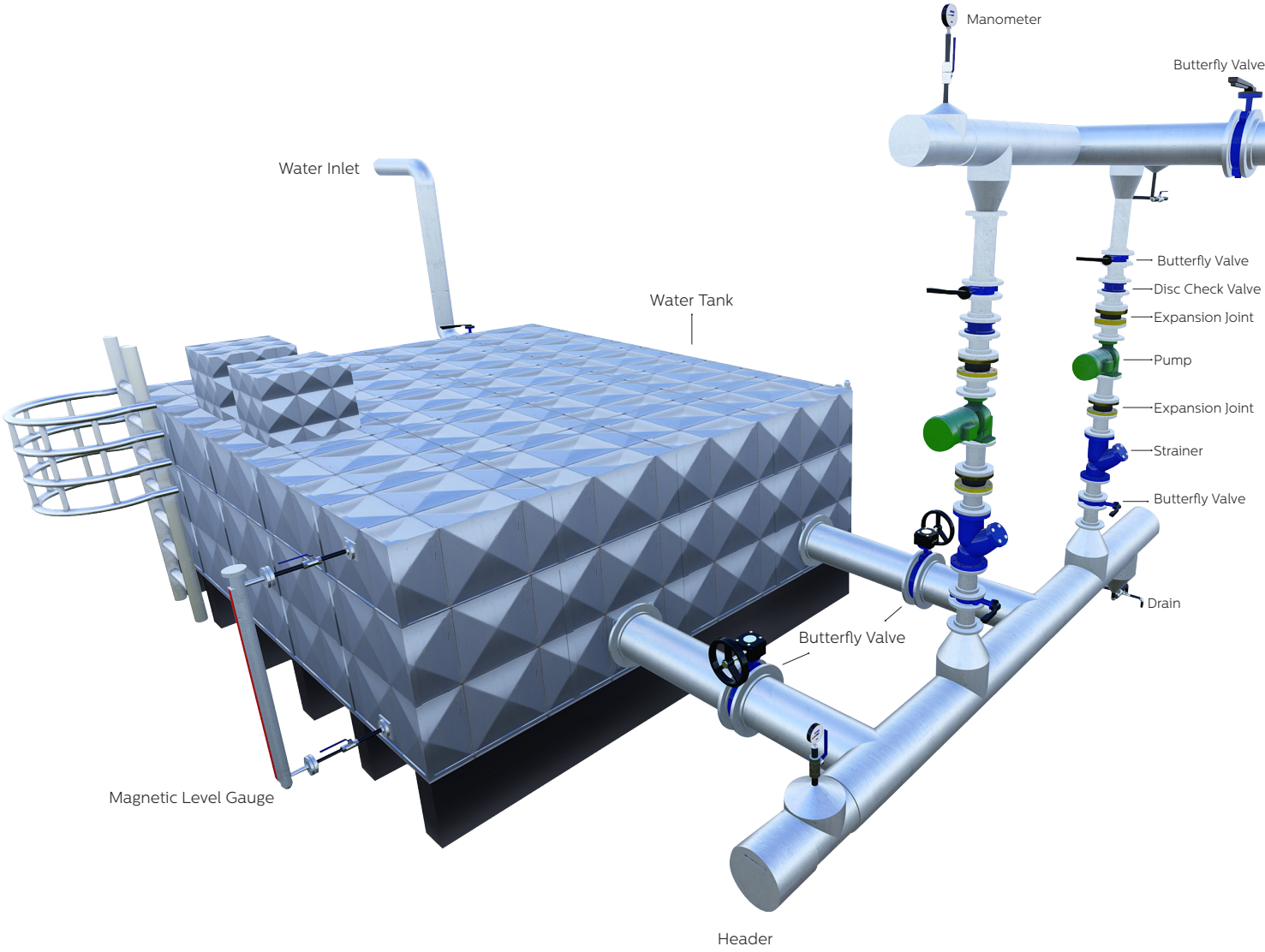
3D APPLICATION



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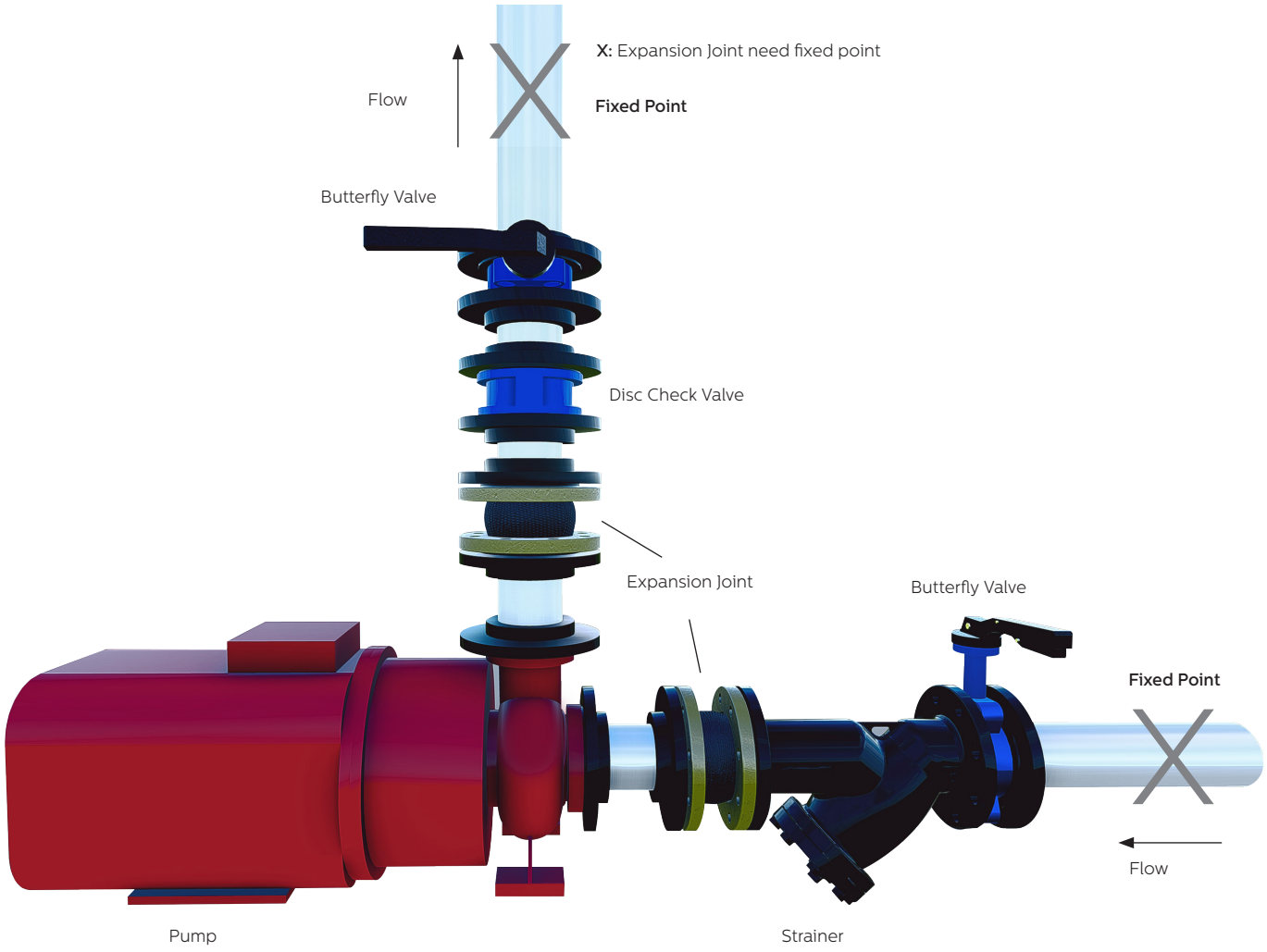
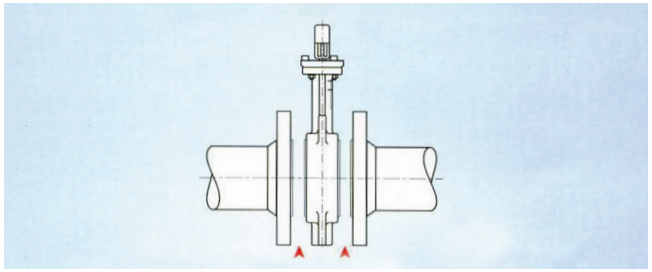


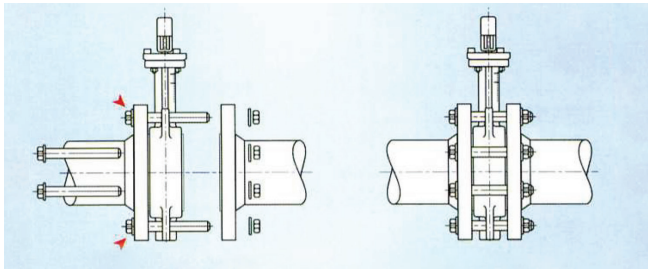
BV-10 BUTTERFLY VALVE

INSTALLATION 1



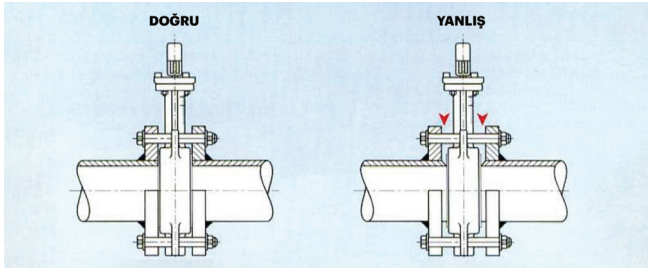
When placing the valve you will be mounting on the mounting surface, make sure there is enough space between the flanges. Without sufficient distance, the seat surfaces of the valves that are attempted to be mounted may be damaged.

INSTALLATION 2



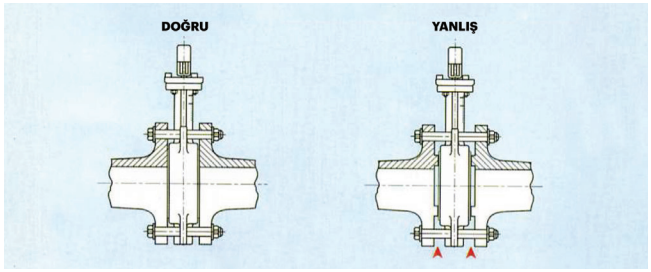
During assembly, first connect the valve and a flange by inserting bolts but do not tighten the bolts, as a second warning, adjust the body to center it on the pipe. Then, tighten the nuts in the opposite direction in a crosswise manner until the valve body and the pipe flange surfaces touch each other.

INSTALLATION 3



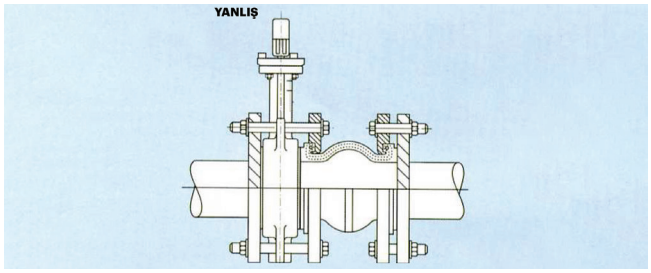
Sharp points of pipe ends and burrs on the pipe should definitely be avoided on the pipe surfaces where the butterfly valve will be mounted. Sharp points and burrs on the pipe mounting surface may cause damage to the rubber surfaces of the butterfly valve.

INSTALLATION 4



When installing the butterfly valve, it is important to use the correct connection flange when fixing the valve. The connection flange to be used should cover the maximum seat surface of the butterfly valve.

INSTALLATION 5



In the assembly of the butterfly valve, it is important that the rubber surfaces do not come into contact with each other (as in rubber expansion joints). The best assembly method for butterfly valve assembly is the contact between the rubber surface of the valve and the metal surface of the pipe flanges. The valve may come into contact with the sealing surface of the rubber expansion joint and may not close.

AYVAZ®

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