



LMI Co.

Luleh Va Mashinsazi Iran (Public Joint Stock Company)

With more than half a century of experience in production and development

Ductile Iron Valves



- Butterfly Valve
- Non Return Valve
- Gate Valve
- Air Valve



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For the latest edition of the catalogue, please refer to the company's website



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Butterfly Valve



● Flanged Type Butterfly Valves:

Flanged type butterfly valves are used to connect and disconnect the fluid flow. These types of valves should never be used to control the fluid flow, so that when using these valves in lines, the disc must be completely open or fully closed and in all other cases there is a possibility of damage to the valves.

● Corrosion Protection Coatings:

- 1- Epoxy powder coating
- 2- Epoxy liquid coating
- 3- Interior glazing based on customer order

● Scope of Supply:

Nominal Sizes:.....DN 150 - 2000
Pressure Ratings:.....PN 6, 10, 16, 25
Allowable Working Temperatures:....-10°C / +65°C
Usefull for Water

● Different Kind of Gearboxes:

- 1- Travelling-nut type with hand weel or electrical actuator.
- 2- Worm gearbox with hand weel or electrical actuator.

Please refer to page 04 of catalogue for visiting the different kind of gearboxes.

● Production Standards:

DIN EN 593	Industrial valves - Metallic butterfly valves
DIN EN 558-1	Face to face and center to face dimensions of metal industrial valve for use in flanged pipe systems
DIN EN 1092-2	Standard of flanges and related fittings - Circular flanges for valves, Ductile iron pipes and fittings
DIN 3476	Corrosion protection of water valves and pipe fittings by epoxy powder or liquid epoxy resin linings
ISO 5208	Standard of industrial valves - Pressure test for valves
ISO 5211	Standard of industrial valves- part - turn actuator attachment
DIN EN 1563	Founding - Cast iron with spherical graphite
DIN EN 1561	Founding - Gray cast iron
ISIRI 4841	National standard of butterfly valves

Characteristics of Butterfly Valves

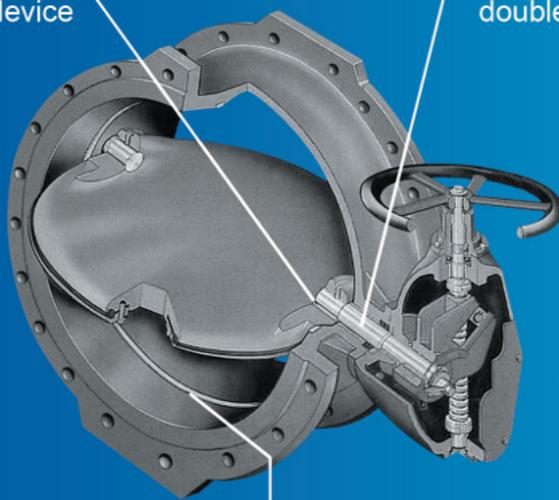
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- Exterior and interior coating of eEpoxy
- Body seat made of welded seamless stainless steel
- Use of self-lubricating bearings in shaft and gearbox
- Shaft and disc drive of positive type connection
- Special key securing device
- Disc design in such a way that its resistance to flow of fluid is minimum
- Bi-directional tight shut-off
- Clamping ring, with the ability to adjust and replace
- Compact body with flange feet
- Gearbox with a special design and variable torque
- Design of the valves according to the latest standard
- Easy installation
- Possibility of installation of the electric actuator
- Very low pressure drop
- Without applying excessive force on the gearbox
- Possibility of installation in pipeline way at the different cases
- Certified IP67 (sealed gearbox in water and soil)

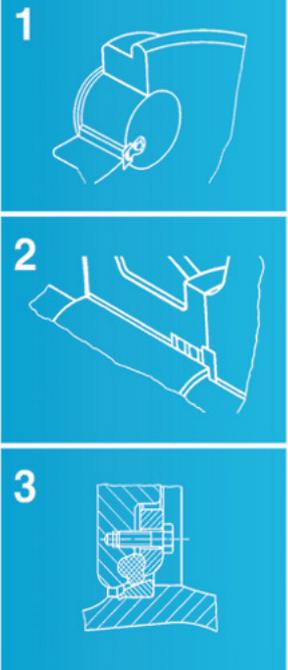


1: Positive keying and key securing device

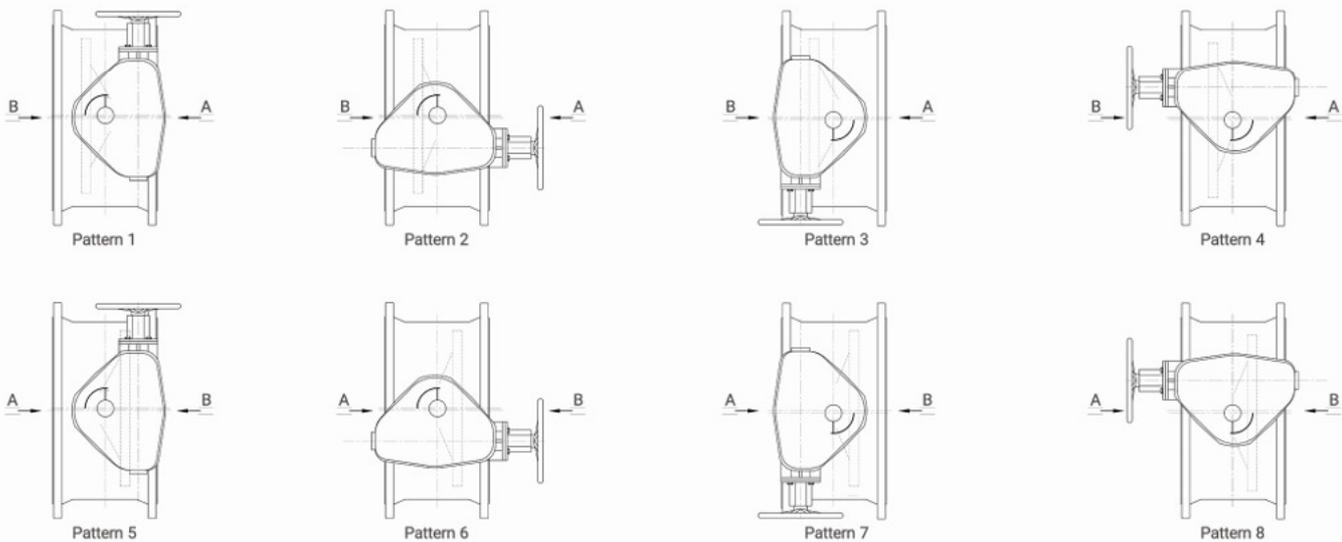
2: Self iubicating bearings double shaft sealing



3: Seat made of welded stainless steel



Butterfly Valves With Electric Actuator

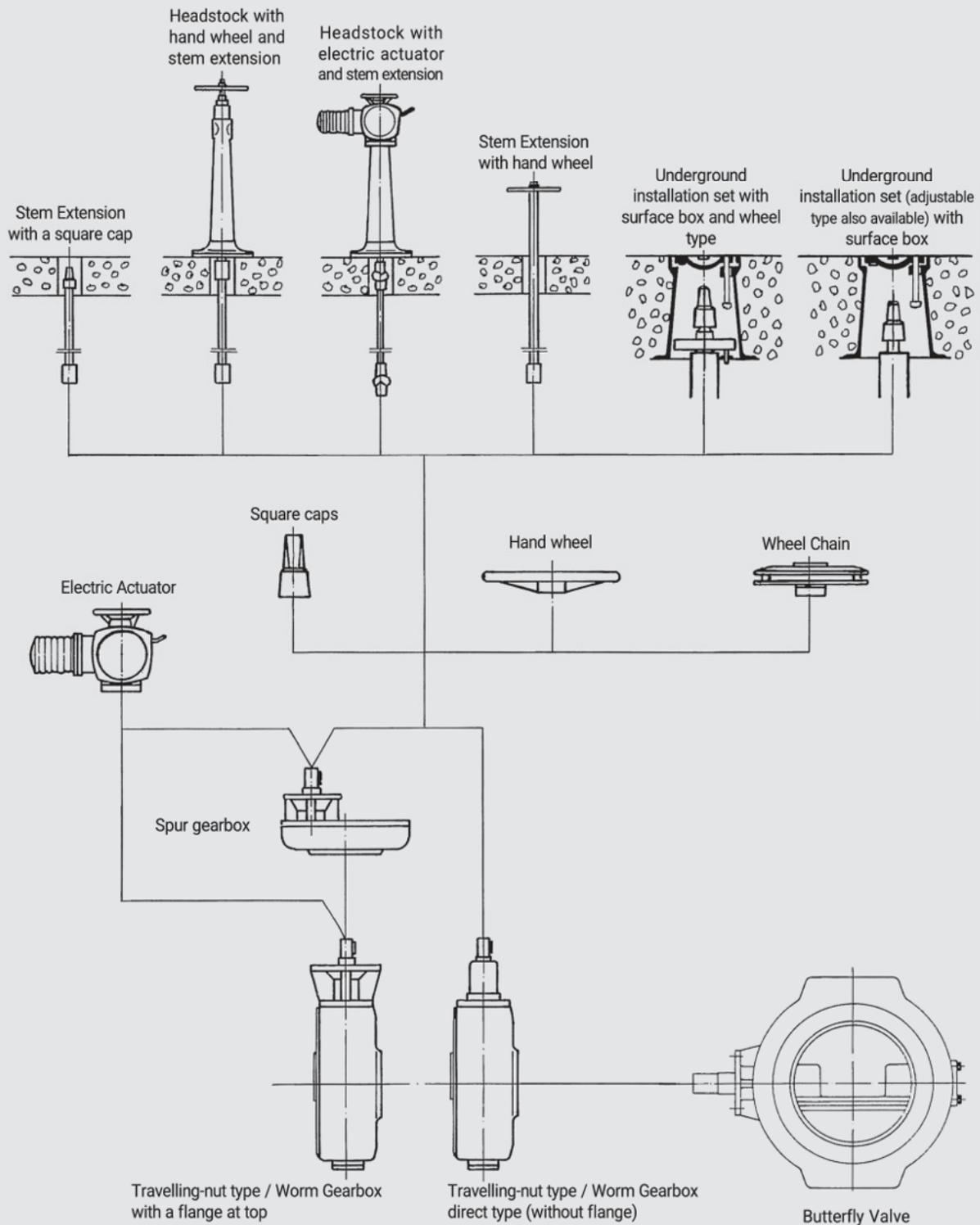


A ➤ Direct Side
B ➤ Indirect Side

- Gearbox of butterfly valves manufactured by LMI Co. is capable of being installed in different directions.
- Butterfly valves in vertical mode can also be installed on the pipeline.
- By default, these valves are closed by turning the steering wheel in clockwise mode.
- A: shows direct flow and direction of pressure, B: shows the indirect flow

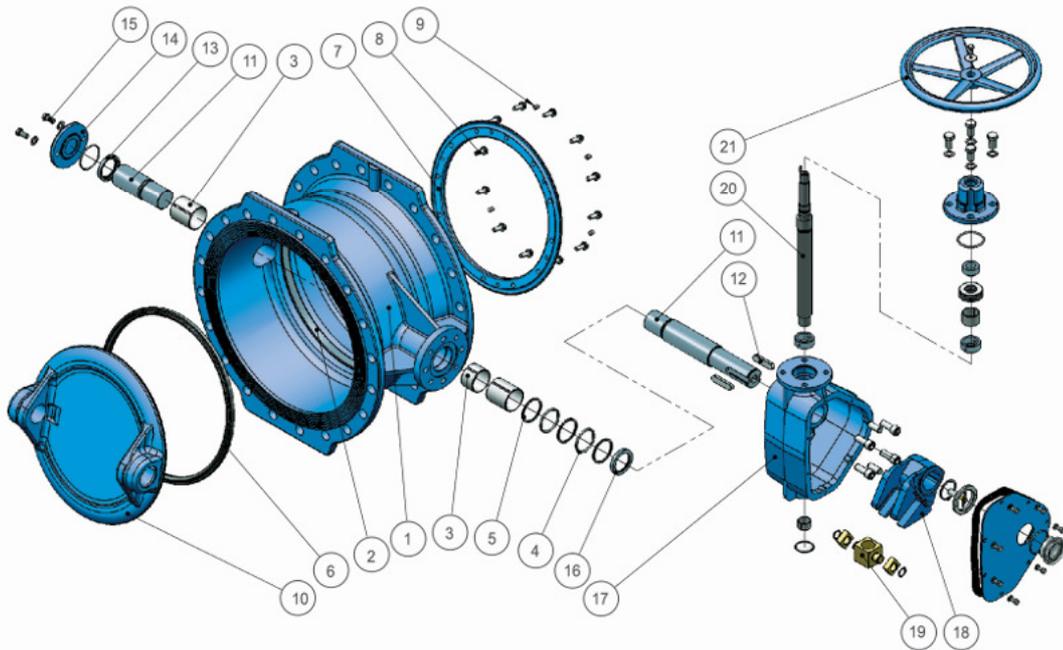
Gearbox Arrangement

Choice of operation gear for Butterfly Valves made by L.M.I



Upon request Gearbox can be optionally replaced by a different type, e.g. hydraulic actuator

Technical Specifications



Row	Name of the part	Material
1	Body	Ductile cast iron with epoxy coating
2	Seat ring	Stainless steel
3	Bearing bush	Galvanized steel / Tin / PTFE
4	O-ring	EPDM / NBR elastomer
5	Back-up ring	Teflon
6	Profile ring	EPDM / NBR elastomer
7	Clamping ring	Ductile cast iron with epoxy coating
8	Set screw	Stainless steel
9	Counter pin	Stainless steel
10	Disk	Ductile cast iron with epoxy coating
11	Shaft	Stainless steel
12	Key	Stainless steel
13	Thrust collar	Teflon
14	Bearing cover	Ductile cast iron with epoxy coating
15	Hexagon head screw	Galvanized steel
16	Thrust collar	Brass
17	Gear casing	Gray cast iron
18	Gear fork	Ductile cast iron with epoxy coating
19	Stem nut	Brass
20	Screw stem	Stainless steel
21	Hand wheel	Gray cast iron / Steel



LMI Co.

Non Return Valve Tilting-Disc



Non Return valves

Non return valves are automatic valves, which are not only on the line of most pipes used in various industries, but also at the outlet of most pumps to prevent the fluid from returning to the pipes and the paths in which the fluid moves.



● Tilting-Disc Non Return Valve with Counter Weight

These valves are used to prevent water reversal in water lines and to prevent damage to other components. In such a way that when the direction of flow of the fluid is reversed, it will rapidly disconnect the flow of the fluid completely, and until the direction of flow of fluid returns to its previous state, the valve will remain closed completely and after the flow of fluid in the correct direction, the Non return valve's disc automatically returns and fluid flows.

● Scope of Supply:

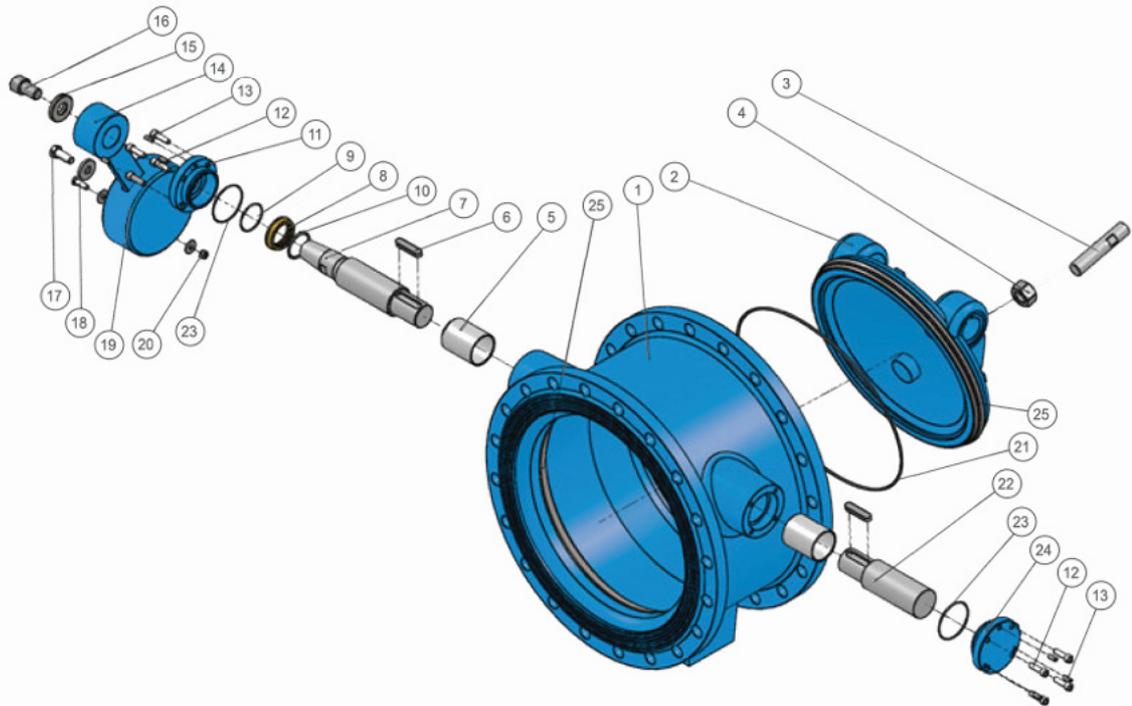
Nominal Sizes:.....DN 200 - 800
Pressure Ratings:.....PN 10, 16, 25
Allowable Working Temperatures:....-10°C / +65°C
Useful for Water

● Production Standards:

DIN EN 12334	Industrial valves - Cast iron non return valves
DIN EN 558	Face to face and center to face dimensions of metal industrial valve for use in flanged pipe systems
DIN EN 1092-2	Standard of flanges and related fittings - Circular flanges for valves, Ductile iron pipes and fittings
DIN 3476	Corrosion protection of water valves and pipe fittings by epoxy powder or liquid epoxy resin linings
ISO 5208	Standard of industrial valves - Pressure test for valves
DIN EN 1563	Founding - Cast iron with spherical graphite
ISIRI 4842	National standard of non return valves - butterfly type



Technical Specifications



Row	Name of the part	Material
1	Body	Ductile cast iron with epoxy coating
2	Disk	Ductile cast iron with epoxy coating
3	Stopper	Stainless steel
4	Nut	Stainless steel
5	Bearing bush	Galvanized steel / Tin / PTFE
6	Key	Stainless steel
7	Shaft, lever end	Stainless steel
8	Sealing ring	Brass / Bronze
9	O-Ring	EPDM / NBR elastomer
10	O-Ring	EPDM / NBR elastomer
11	Bearing cover	Ductile cast iron/Steel with epoxy coating
12	Hexagonal s.h.c screw	Galvanized steel
13	Set screw	Galvanized steel

Row	Name of the part	Material
14	Lever	Ductile cast iron/Steel with epoxy coating
15	Washer	Steel
16	Hexagonal s.h.c screw	Galvanized steel
17	Hexagonal head screw	Steel
18	Hexagonal head screw	Steel
19	Weight	Ductile cast iron with epoxy coating
20	Nut	Steel
21	O-Ring	EPDM / NBR elastomer
22	Shaft, free end	Stainless steel
23	O-Ring	EPDM / NBR elastomer
24	Bearing cover	Steel
25	Seat ring	Stainless steel

Gate Valve



Gate valve:

The gate valves has a Wedge with a linear movement to connect and disconnect the flow of fluid, which, when the Wedge is fully open, is removed from the flow path and causes no resistance in the valve, resulting in less turbulence comparing other valves in the fluid flow. The pressure drop is not noticeable.

● Characteristics:

Ductile iron body and bonnet and elastomeric Wedge with ductile iron core for better sealing The Wedge of valve can be replaced quickly and easily without the need to take off the valve from the pipeline.
epoxy coating on all internal and external surfaces.
Easy opening and closing valve and full sealing in closed mode.
No longitudinal movement of the axis when opening and closing the valve.
No need for maintenance at the time of operation.

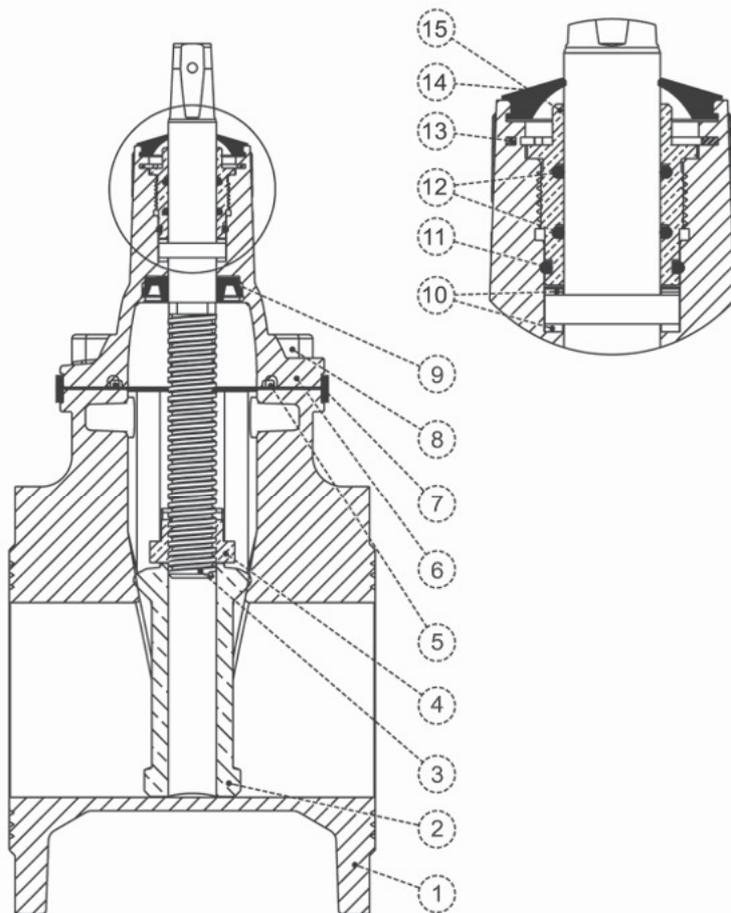
● Scope of Supply:

Nominal Sizes:.....DN 50 - 300
Pressure Ratings:.....PN 10, 16, 25
Allowable Working Temperatures:....-10°C / +65°C
Usefull for Water

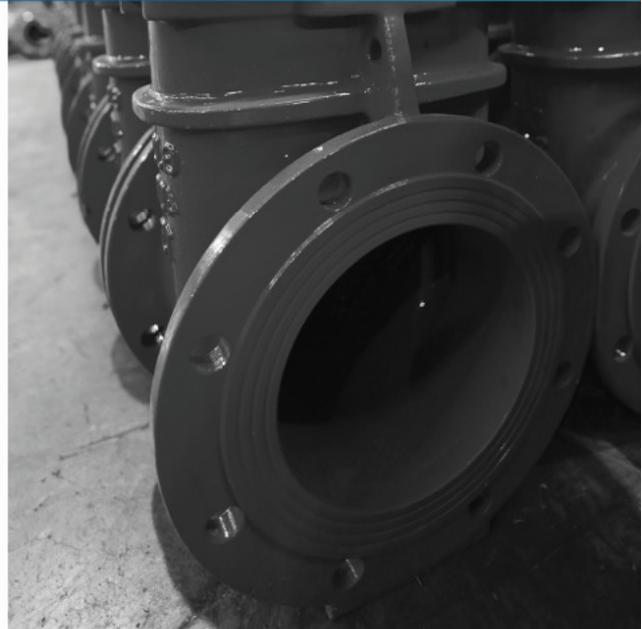
● Production Standards:

EN 1171	Industrial valves - Cast iron gate valves
DIN EN 558	Face to face and center to face dimensions of metal industrial valve for use in flanged pipe systems
DIN EN 1092-2	Standard of flanges and related fittings - Circular flanges for valves, Ductile iron pipes and fittings
DIN 3476	Corrosion protection of water valves and pipe fittings by epoxy powder or liquid epoxy resin linings
ISO 5208	Standard of industrial valves - Pressure test for valves
DIN EN 1563	Founding - Cast iron with spherical graphite
ISIRI 3363	National standard of gate valves





Technical Specifications



Row	Name of the part	Material
1	Body	Ductile cast iron with epoxy coating
2	Wedge	Ductile cast iron with EPDM coating
3	Stem	Stainless steel
4	Wedge nut	Brass
5	Sealing elastomeric	EPDM / NBR elastomer
6	Bonnet	Ductile cast iron with epoxy coating
7	Protection ring	Polyethylene
8	Hexagonal s.h.c screw	Galvanized steel
9	Back lip seal	EPDM / NBR elastomer
10	Back up ring	Polymers
11	O-Ring	EPDM / NBR elastomer
12	O-Ring	EPDM / NBR elastomer
13	Retaining rings	Steel
14	Dust cap	EPDM / NBR elastomer
15	Threaded bush	Brass

Air Valve

Air Valve

Retained air in the water pipeline can cause some disorder like alteration of water pressure, Deby disturbance and air contraction which leads to pressure lose and flow reduction. To pre these problems, which may damage the pipes, the air valves are used.



● Single (large) Orifice Air Valves

The function of this valve is releasing or injecting the voluminous air packets within the pipelines at the time of charging or discharging of the pipes, so it maintains the efficiency and provides protection of the mains

● Double Orifice Air Valves

In this type, a one-inch air valve is mounted onto each size of the single orifice air valve. This valve can exhaust or admit air, further to releasing air pockets at the regular working of the pipeline.

● Scope of Supply:

Nominal Sizes:.....DN 25 (1") - 200

Pressure Ratings:.....PN 10, 16, 25

Allowable Working Temperatures:....-10°C / +65°C

Usefull for Water

● Production Standards:

DIN EN 1092-2

Standard of flanges and related fittings - Circular flanges for valves, Ductile iron pipes and fittings

DIN 3476

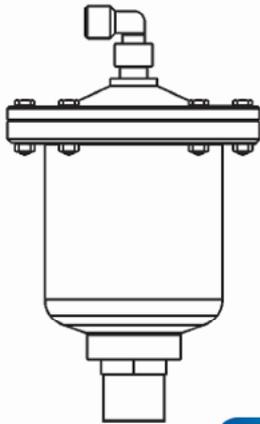
Corrosion protection of water valves and pipe fittings by epoxy powder or liquid epoxy resin linings

ISO 5208

Standard of industrial valves - Pressure test for valves

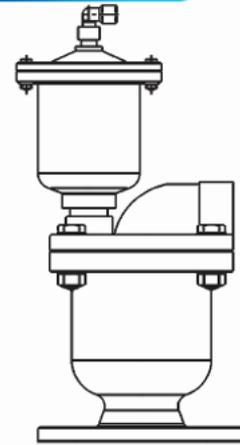
Technical Specifications

Air Valve



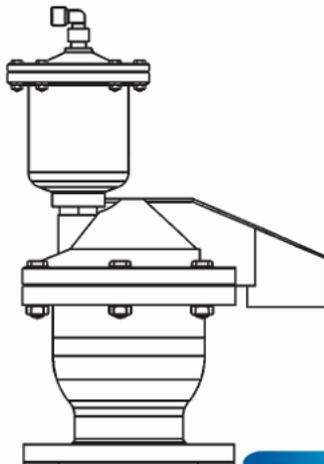
DN 25 (1")

Double Orifice Air Valve



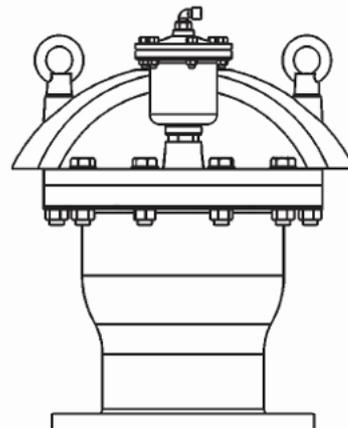
DN 50

Double Orifice Air Valve



DN 80 - 100

Double Orifice Air Valve



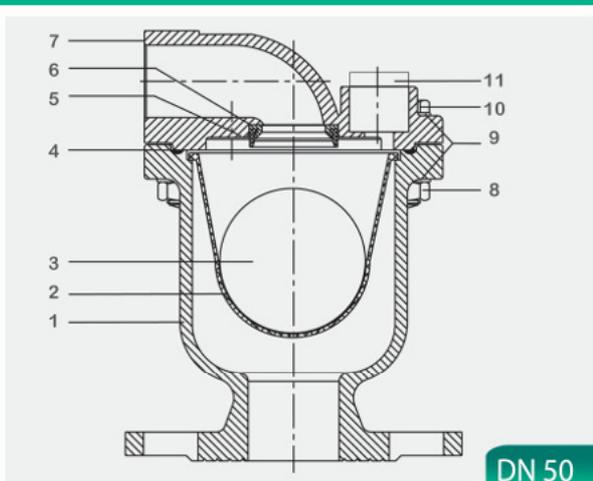
DN 150 - 200

Row	Name of the part	Material	Air Valve
1	Threaded screw	Galvanized / Stainless steel	
2	Basket	Polyethylene	
3	Float	EPDM / NBR elastomer coating	
4	Body	Ductile cast iron	
5	O-Ring	EPDM / NBR Elastomer	
6	Nut	Stainless steel	
7	Washer	Stainless steel	
8	Bolt	Stainless steel A2-70	
9	Cover	Ductile cast iron with epoxy coating	
10	O-Ring	EPDM / NBR elastomer	
11	Orifice	Brass	
12	Bend	Galvanized / Stainless steel / Brass	

DN 25 (1")

Row	Name of the part	Material	Single Orifice Air Valve
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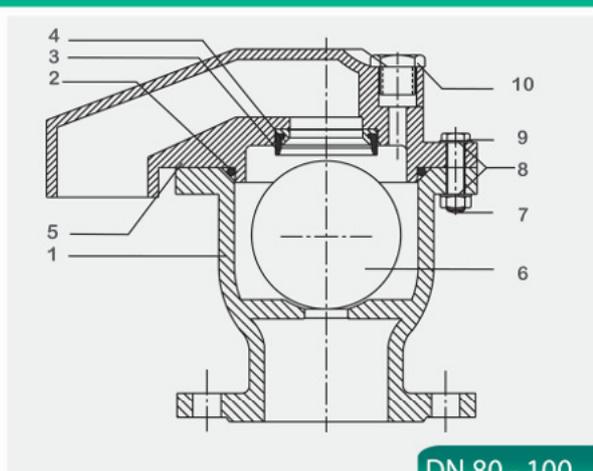
1	Body	Ductile cast iron with epoxy coating
2	Basket	Polyethylene
3	Float	EPDM / NBR elastomer coating
4	O-Ring	EPDM / NBR elastomer
5	Sealing elastomer	EPDM / NBR elastomer
6	Seat	Brass
7	Cover	Ductile cast iron with epoxy coating
8	Nut	Stainless steel
9	Washer	Stainless steel
10	Bolt	Stainless steel
11	Plug	Galvanized / Stainless steel



DN 50

Row	Name of the part	Material	Single Orifice Air Valve
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1	Body	Ductile cast iron with epoxy coating
2	O-Ring	EPDM / NBR elastomer
3	Sealing elastomer	EPDM / NBR elastomer
4	Seat	Brass
5	Cover	Ductile cast iron with epoxy coating
6*	Float	EPDM / NBR elastomer coating
7	Nut	Stainless steel
8	Washer	Stainless steel
9	Bolt	Stainless steel
10	Plug	Galvanized / Stainless steel (According to the order)

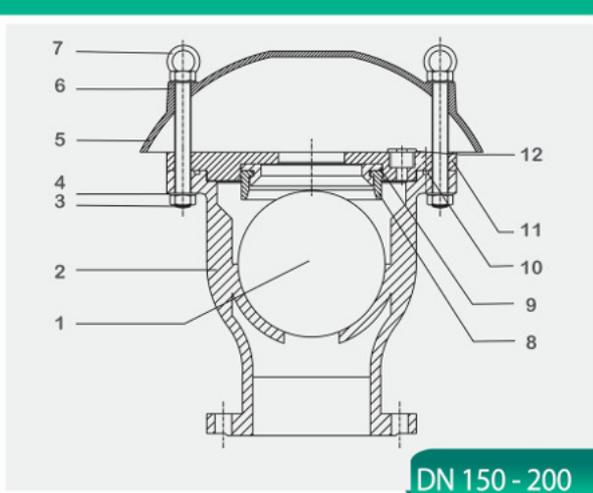


DN 80 - 100

* For DN100: Stainless steel

Row	Name of the part	Material	Single Orifice Air Valve
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1	Float	Stainless steel
2	Body	Ductile cast iron with epoxy coating
3	Nut	Galvanized
4	Washer	Galvanized
5	Safety cap	Gray cast iron with epoxy coating
6	Bolt	Galvanized
7	Eye nut	Stainless steel
8	Sealing elastomer	EPDM/NBR elastomer
9	Seat	Brass
10	O-Ring	EPDM/NBR elastomer
11	Cover	Ductile cast iron with epoxy coating
12	Plug	Galvanized/Stainless steel (According to the order)



DN 150 - 200

LMI Co.

Some projects:

- Persian Gulf Water Pipeline Project
- Iran Bandar Abbas Salt Water Project
- Azad Dam Project
- Sarani Dam Project
- Mamlu Dam Project
- Tropical Plan Project

