

OMEGA VALVE MFG. CO.



PLOT NO. 668, VILL- KHARIAL, P.S.- DANKUNI(OPP. COAL COMPLEX) HOOGHLY

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VALVE





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-:OUR PHILOSOPHY:-

OBEYING STRICT QUALITY MEASURES. WE STRIVE TO DELIVER PRODUCTS TO OUR CLIENTS THAT ARE STRICTLY MANUFACTURED AS PER VARIOUS NORMS AND GUIDELINES OF ENGINEERING STANDARDS.

MAKING NO STONES UNTURNED IN RESPECT OF TESTING ALL OUR PRODUCTS THUS CERTIFIED BY QUALIFIED ENGINEERING PROFESSIONALS ONLY.

EFFICIENT WORK TEAM MAKES IT POSSIBLE TO DELIVER QUALITY PRODUCTS.

GOAL OF CUSTOMER SATISFACTION IS ALWAYS OUR PRIME CONSIDERATION AND ONE OF OUR VALUE SERVICE MOTOS.

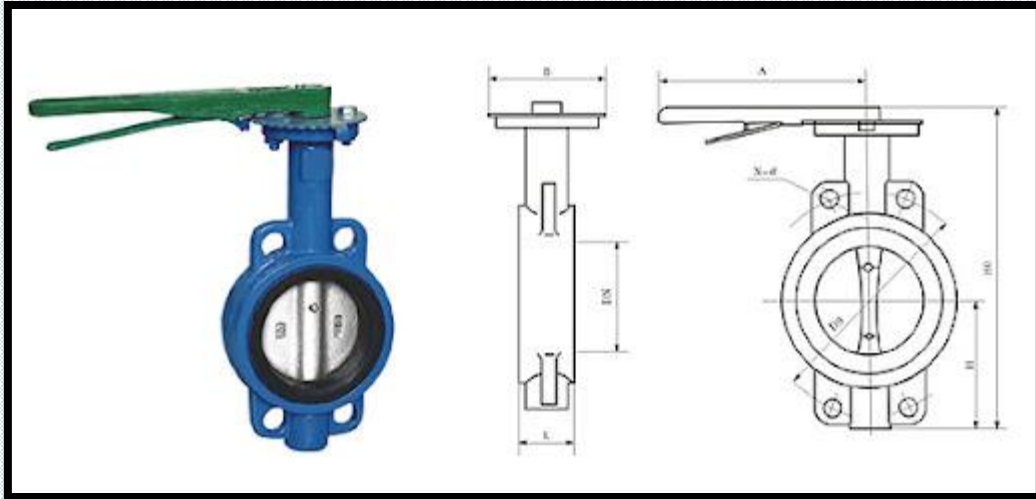
AVAILABILITY OF AFTER SALES SERVICE MAKES US UNIQUE IN THIS FIELD.

BUTTERFLY VALVE:-

Butterfly valves are a family of quarter-turn rotational motion valves that are used in pipelines to shut-off flow. It is often said that butterfly valves can be used to regulate the flow. However, we do not recommend doing this, as it can damage the valve disk and have a negative effect on the sealing properties.

WAFER TYPE BUTTERFLY VALVE:

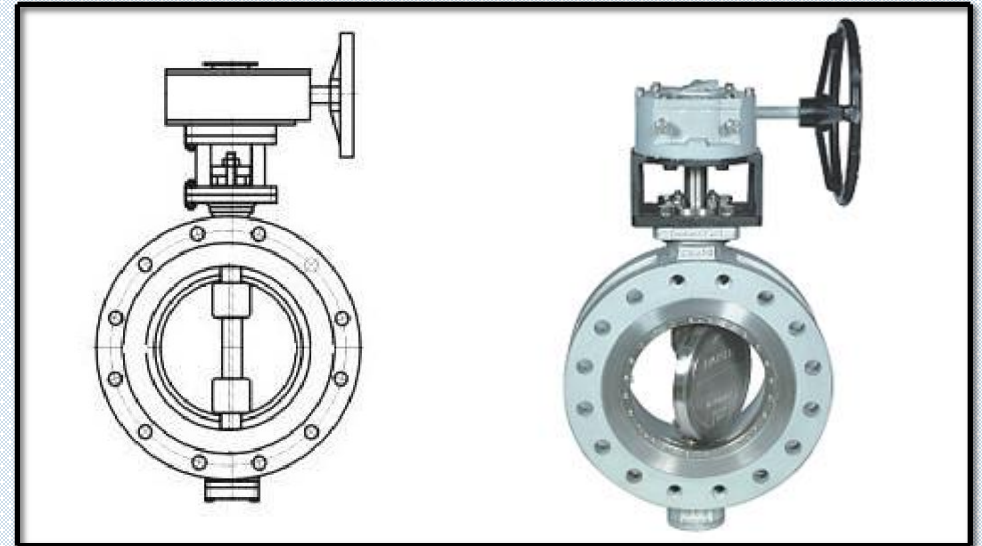
The valve is designed to clamp between two flanges in your pipe work. Most wafer butterfly valves fit the majority of flange standards. The rubber or EPDM valve seat creates an exceptionally strong seal between the valve and flange connection



FLANGE TYPE BUTTERFLY VALVE:

Flanged butterfly valve is a type of valve that is commonly used in industrial processes to control the flow of fluids.

Flanged butterfly valves are designed to be bolted to the flanges at each end of the valve. They have a raised surface on each flange to provide a surface for the gasket.



BALL VALVE:-

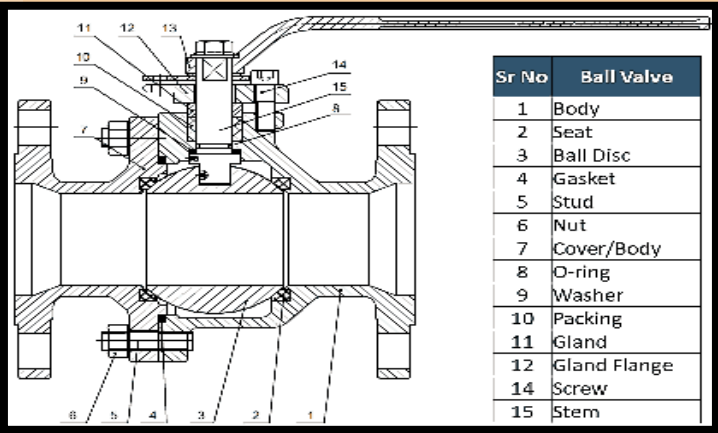
A Ball valve is a device with a spherical closure unit that provides on/off control of flow. The sphere has a port, also known as a bore, through the center. When the valve is positioned such that the bore is aligned in the same direction as the pipeline, it is in open position and fluid can flow through it. When rotated 90 degrees, the bore becomes perpendicular to the flow path, meaning the valve is closed and the fluid cannot pass through.

USED:

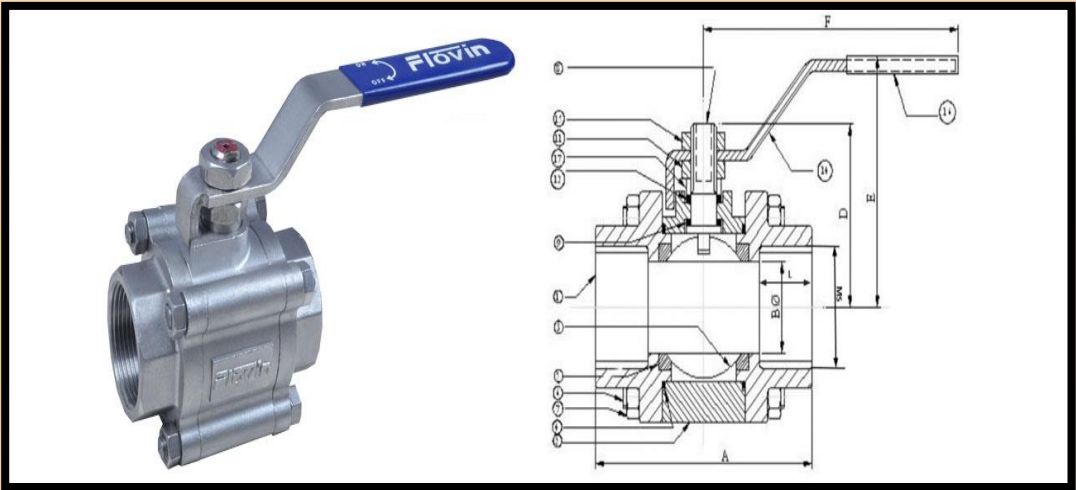
Ball valve is the most used fluid shutoff valve in upstream oil and gas production facilities, both onshore and offshore. They are also used in fuel gas systems feeding furnaces. Plug valves present the following advantages: Resistance to high pressure.

The principle components that make up a ball valve are listed with their requirements:

- Body—pressure containing, wetted.
- Body bolts—mechanical strength.
- Ball—pressure retaining, wetted.
- Seats—pressure retaining, wetted.
- Seals—pressure retaining, wetted.
- Stem—mechanical strength to rotate the ball, wetted.
- Lever—mechanical strength to rotate the stem.



FLANGE END BALL VALVE



SCREW END BALL VALVE

GLOBE VALVE:-

Globe valves are closing-down valves in which the closure member is moved squarely on and off the seat. It is customary to refer to the closure member as a disc, irrespective of its shape. By this mode of disc travel, the seat opening varies in direct proportion to the travel of the disc. This proportional relationship between valve opening and disc travel is ideal suited for duties involving regulation of flow rate. In addition, the seating load of globe valves can be positively controlled by a screwed stem, and the disc moves with little or no friction onto the seat, depending on the design of seat and disc. The sealing capacity of these valves is there for potentially high.



Reference Parts:

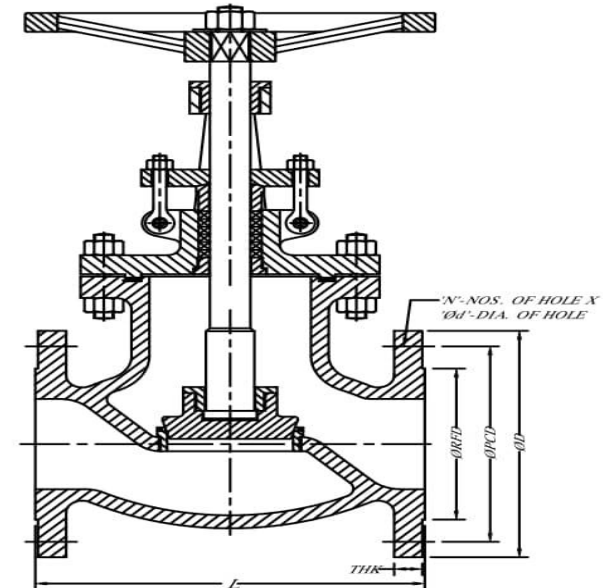
(1).Body; (2).Body Seat Ring; (3) Disc (4). Trust Plate; (5) Stem; (6). Locking Washer; (7). Jam Nut; (8). Gasket; (9). Stuffing Box with Yoke; (10).Back Seat Bush; (11). Gland Packing; (12). Gland; (13).Hand Wheel; (14). Set Screw.

Hydraulic Test Pressure:

Body: 25 KG/CM²

Seat / Back Seat: 16 KG/CM²

Seat Air: 6 KG/CM²



NON-RETURN VALVE / CHECK VALVE:-

Cast Iron Double Flanged Swing Check Type Non-Return Valve Bolted Bonnet, Gasket Joints ,Renewable Seats; Flanges are faced and drilled as per IS Specification. Oil cushioned cylinder or counter weight arrangement, if asked can be provided to achieve non-slamming effect.

REFERENCE PARTS:

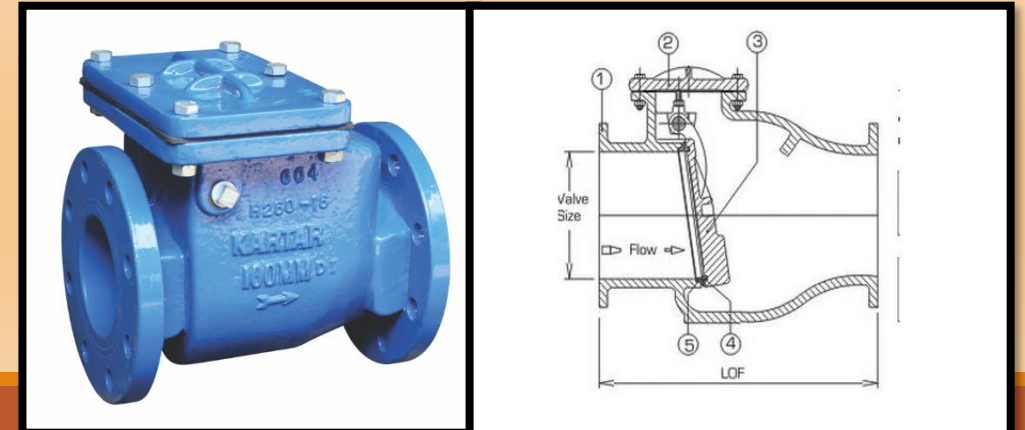
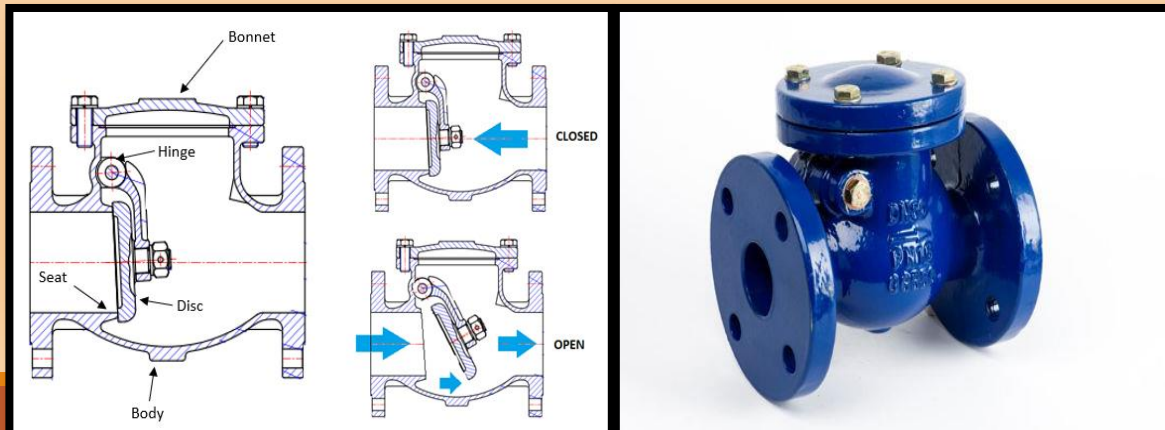
(1).Body; (2).Body Seat Ring; (3). Flap; (4). Flap Seat Ring; (5). Hinge Pin; (6). Hinge; (7). Gasket; (8).Cover; (9). Nuts & Bolts;

MANUFACTURING RANGE:

Sizes: 1). 50 mm to 125 mm; 2). 150 mm to 300 mm; 3). 350 mm to 600 mm

HYDRAULIC TEST PRESSURE:

1). Body: 25 KG/CM² for 50mm to 125 mm Seat / Back Seat: 15 KG/CM² 2). Body: 20 KG/CM² for 150mm to 300 mm Seat / Back Seat: 10 KG/CM² 3). Body: 16 KG/CM² for 350mm to 600 mm Seat / Back Seat: 8 KG/CM²



GATE VALVE:-

A gate valve, also known as a sluice valve, is a valve that opens by lifting a barrier (gate) out of the path of the fluid. Gate valves require very little space along the pipe axis and hardly restrict the flow of fluid when the gate is fully opened.

- **USED-**

A gate valve is the most common valve for water supply systems. It represents a linear-motion isolation valve and has a function to stop or allow the flow. Gate valves got their name from the closure element sliding into the flow stream to provide shutoff and, therefore, acting like a gate.

TYPES OF GATE VALVE-

- 1. KNIFE GATE VALVE**
- 2. SLUICE GATE VALVE**
- 3. SLIDE GATE VALVE**



KNIFE GATE VALVE



SLUICE GATE VALVE



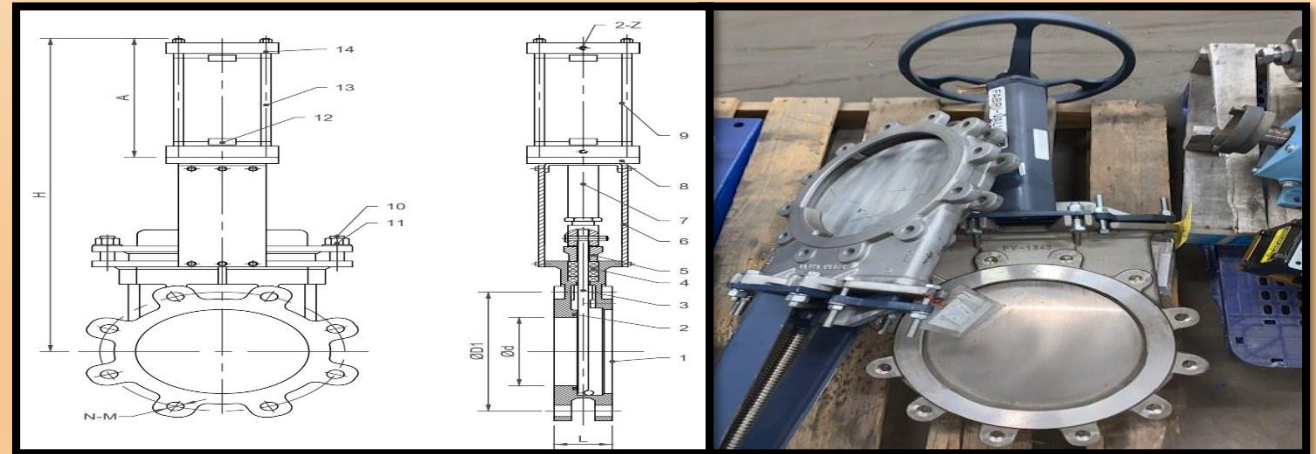
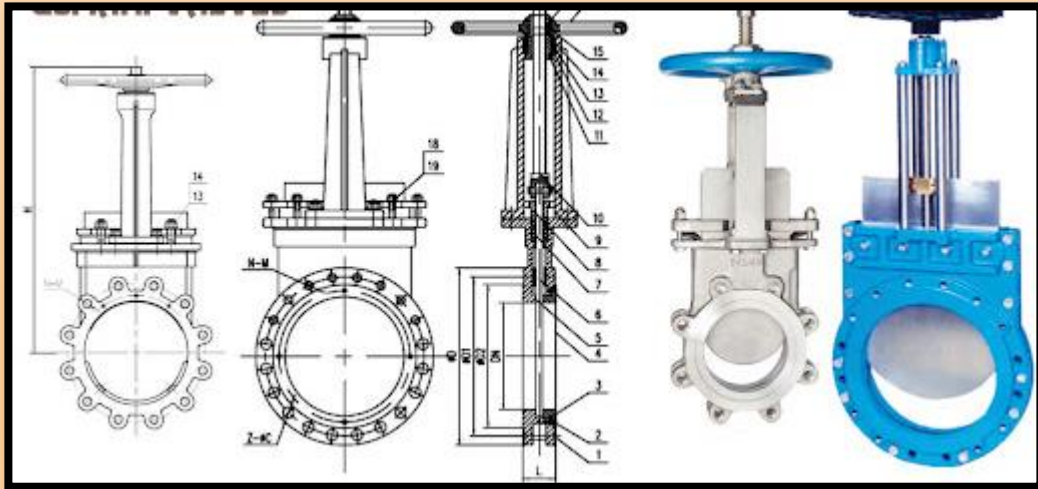
SLIDE GATE VALVE

1. KNIFE GATE VALVE

A knife gate valve is used to cut through extremely thick fluids and dry bulk solids. The design of this valve makes it inherently self-cleaning, as the knife is cleared of abrasives with each stroke as it passes the seat rings and skirts. The gate of this type of valve is thin compared to other gate valve type and is guided in place by the water-type body that sandwiches the gate.

ADVANTAGE-

Many of the advantages of regular gate valves also apply to knife gate valves; they are easy to actuate by mechanical, electrical or pneumatic means, and they are lightweight which makes them easier to transport, store, install and maintain (knife gate valves tend to be even lighter than resilient- or metal seated gate valves). They are also very cost-effective. Because of these attributes, knife gate valves have seen extensive use involving slurry, viscous fluids, and other applications where impingement is an issue and are used not only in pulp and paper production but are also widely used in municipal wastewater pumping stations and sewage treatment plants. Hawle produces valves and fittings mainly for municipal water supply and sewage, but our knife gate valves can also be used for other non-volatile, non-flammable viscous fluids.



2. SLUICE GATE VALVE:-

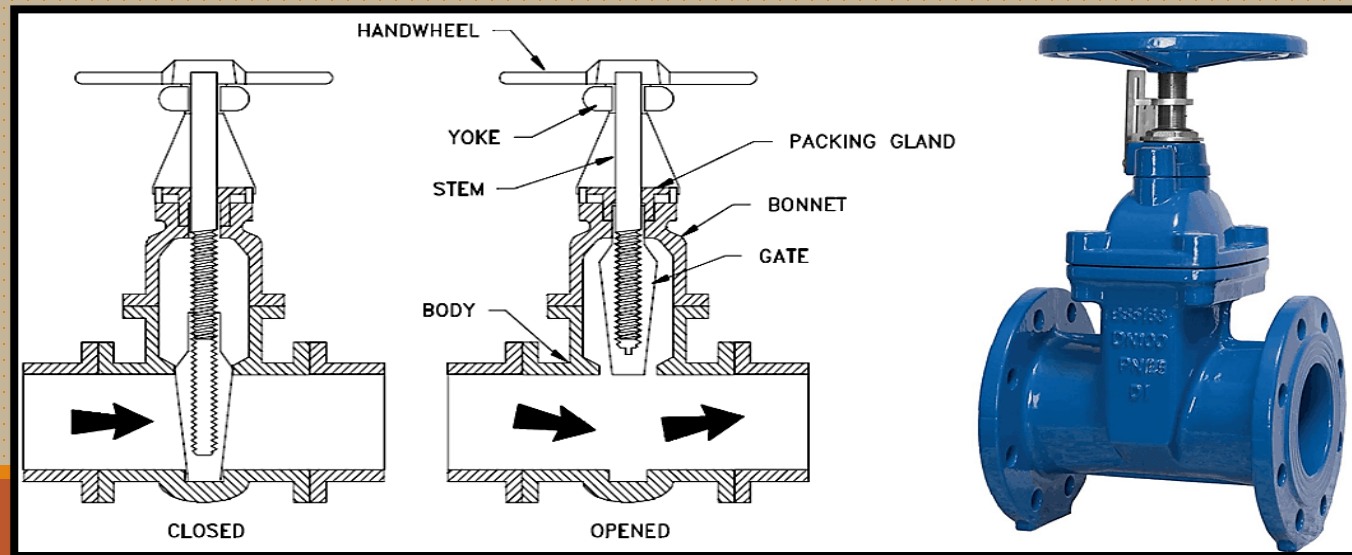
A sluice valve uses a gate or a wedge-shaped disc to control and regulate the flow. This gate runs perpendicular to the flow of fluids into or out of the pipeline. The valve opens by lifting the gate out of the path of the fluids and enabling it to flow.

USED-

Primarily Sluice gate is used to cut off or restrain the flow of a liquid. It regulates the movement of water, especially for controlling flooding, maintaining water levels, and in various industries to optimize process efficiency by controlling the flow and level of liquid.

ADVANTAGES:

The variable aperture size means sluice gates provide excellent water level control. The simple design is low cost and low maintenance. Disadvantages: Requires manual operation and manual closure in floods.

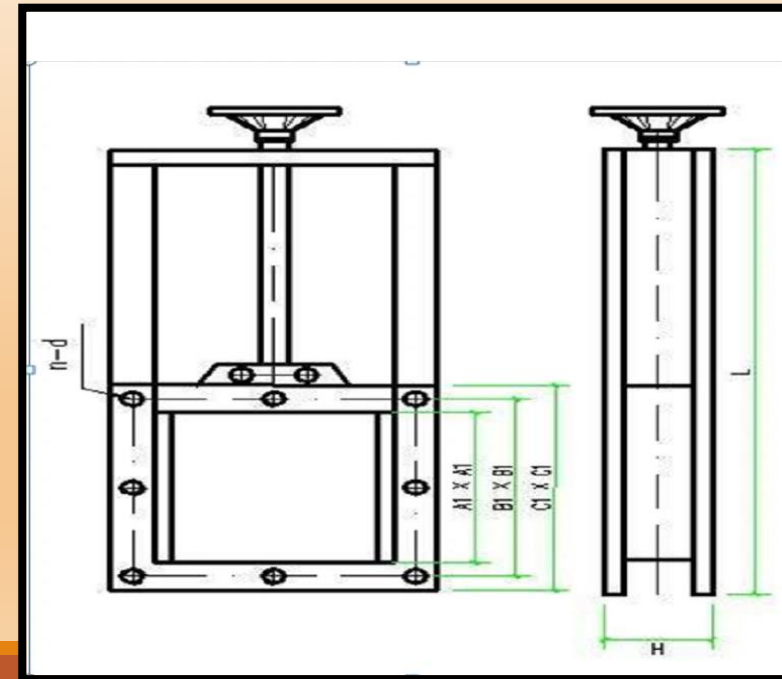


3. SLIDE GATE VALVE:-

A slide valve is a device specifically designed to manage the flow of substances within a system. It operates by sliding over an opening to either allow or block the material from flowing. The simplicity of its design and functionality make it a preferred choice for many applications.

USED-

The slide valve is a rectilinear valve used to control the admission of steam into and emission of exhaust from the cylinder of a steam engine.



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DAMPER





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BUTTERFLY **DAMPER:-**

Butterfly dampers can be used in a wide variety of applications but are commonly used for flow control and low leakage or isolation applications. These dampers can also be designed to withstand extreme design pressures and very high temperatures, while also keeping pressure drops low through the system.

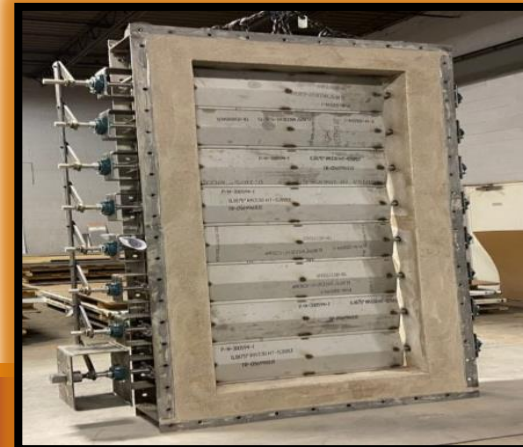
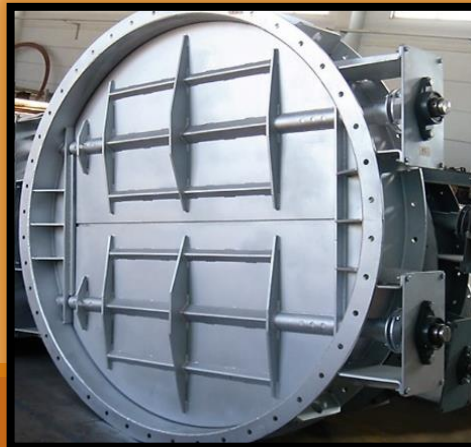
OMEGA Butterfly Damper provide a simple and cost effective method of control and isolation. Stainless steel dampers for high temperature application are available in a variety of sizes. Butterfly damper can be actuated pneumatically, electrically or manually by a simple hand lever or reduction gearbox.



MULTI-LOUVER DAMPER:-

OMEGA multi-louver opposed blade dampers are designed to provide balance flow control. Internal stainless steel spring seals furnish tight shut-off, allowing isolation of the fan for maintenance. Heavy duty adjustable blade linkage with high strength spherical rod ends provide precise blade movement, while self-lubricating high temperature spherical carbon sleeve bearings running on stainless steel shaft at low for maintenance free service.

Multi-Louver dampers are most commonly seen throughout all kinds of industrial and residential HVAC systems. They can be used to efficiently and reliably control the amount of hot or cold air moving through a ventilation system in order to regulate the temperature of a facility.



GUILLOTINE DAMPER:-

OMEGA Guillotine dampers are best-suited for isolation applications where low leakage and pressure drop are important. The basic mechanical elements of the guillotine damper are a blade, peripheral seal system, external support members and a drive to move the blade steadily and continuously. Provides tight shut-off (up to 99.9% without seal air and 100% with seal air). The convex seat in the body makes this an ideal damper for rough and dust laden applications. The ISO-Flex Guillotine is actuated by a rack and pinion drive system where the rack.

