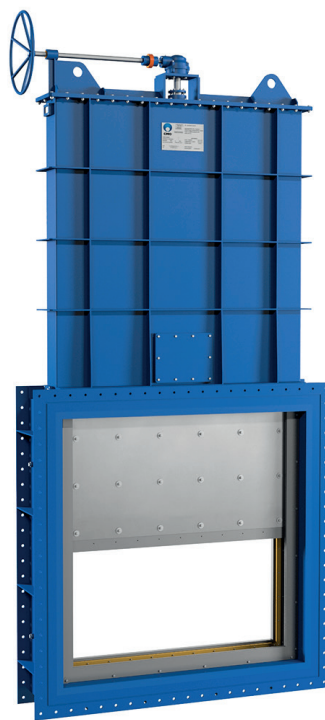
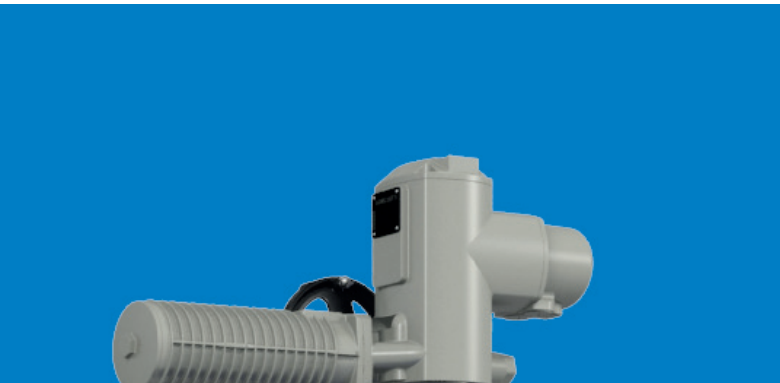
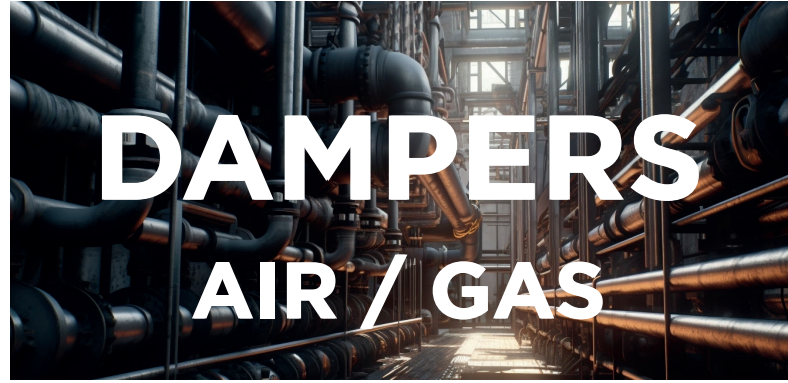




CMO VALVES

manufacturing the valve you need

2023 v02



THE COMPANY

CMO Valves is a company dedicated to the **design, manufacture and assembly of standard and special valves, penstocks and dampers**. Its extensive manufacturing range allows it to take on any number of applications and control a variety of fluids, solids, liquids and gases at different pressures and temperatures.

Founded in February 1993, its staff has **more than 40 years of experience** in the sector. This experience and the satisfaction of a job well done has helped us to evolve and become the company we are today, along with the satisfaction of our customers.

CMO Valves is today one of the largest manufacturers of valves both nationally and internationally, and it has a young team of qualified staff to provide the best service to its customers.

CERTIFIED QUALITY MANAGEMENT

CMO Valves is committed to quality as one of the main assets of its business and a key success factor.

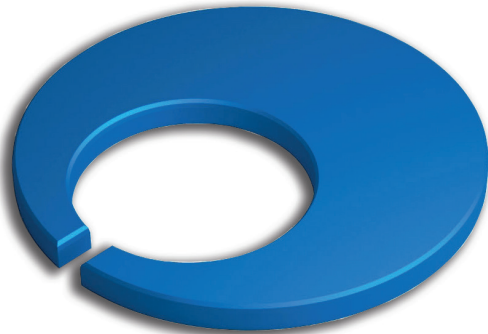
Quality is always directed towards continuous process improvement in order to meet customer needs and expectations, while at the same time ensuring maximum satisfaction.

Responding to the demands of the market, characterised by a high specialisation in Knife Gate Valves, and operating in an increasingly competitive environment, **CMO Valves** established a quality control system in 1998, with EN ISO 9001 certification.

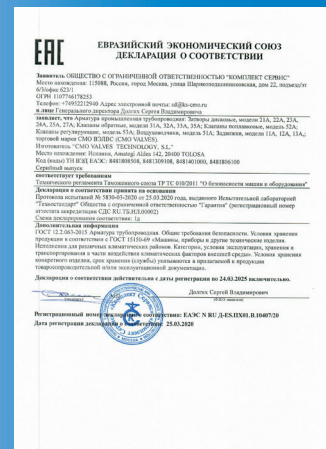


THE FACILITIES ARE DIVIDED INTO FIVE SECTIONS:

Offices: 800 m ² (General Of. + Technical Of.)
Production: 10,000 m ² (Tolosa / Altozo)
Testing: 600 m ²
Quality control: 300 m ²
Storage and stock: 4000 m ²
Madrid branch: 600 m ²



ISO 9001
EAC
AWWA STANDARDS



ASME STANDARDS
EC PED DIRECTIVE
ALL INTERNATIONAL STANDARDS



GR SERIES

PRODUCT DESCRIPTION

The **GR Series** gas valve, with round, unidirectional damper design. Various constructions materials and seal and stuffing materials available. Face-to-face distance in accordance with **CMO Valves** standard. The body of this type of damper is usually mechanically welded and built with sheet metal of different thicknesses with reinforcements and structural profiles to avoid possible deformations. The body is approximately twice the height of the conduit, to be able to house the gate inside it when it is in the open position.

GENERAL APPLICATIONS

This knife gate damper valve is suitable for working with a wide range of air and gasses. It is especially indicated as an insulation element to allow inspections, maintenance and repairs in the ducts.

Designed for applications such as:

- Cement plants
- Steel plants
- Electrical power stations.
- Chemical plants.
- Energy sector.

TECHNICAL DATA GR-GC SERIES

STANDARD PRODUCTION SIZE:

GR Series: From DN150 to DN3000
(larger sizes on request)

GC Series: 125 x 125 to 3000 x 3000
(larger sizes on request)
Rectangular designs also available.

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.5 bar and temperature is 600°C.
(Other pressures and temperatures on request.)

FLANGES

The face-to-face and flange connections are according to the **CMO Valves** standard, but can also be manufactured to the customer's requirements on request.

APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

SEALTIGHT INTEGRITY

From 98.5% to 99.5%. 100% tightness can also be obtained (upon request) using double knife gate systems and air injections by fan.



GC SERIES

PRODUCT DESCRIPTION

The **GC Series** gas valve, with square or rectangular, unidirectional damper design. Various constructions materials and seal and packing materials available. Face-to-face distance in accordance with **CMO Valves** standard. The body of this type of damper is usually mechanically welded and built with sheet metal of different thicknesses with reinforcements and structural profiles to avoid possible deformations. The body is approximately twice the height of the conduit, to be able to house the gate inside it when it is in the open position.

GENERAL APPLICATIONS

This knife gate damper valve is suitable for working with a wide range of air and gasses. It is especially indicated as an insulation element to allow inspections, maintenance and repairs in the ducts.

Designed for applications such as:

- Cement plants
- Steel plants
- Electrical power stations.
- Chemical plants.
- Energy sector.
- ...

ACCESSORIES FOR THE GR-GC SERIES

Mechanical stoppers, Locking devices, Emergency manual actuators, Electrovalves, Positioners, Limit switches, Proximity detectors, Straight floor stand, leaning floor stand, etc.

ML SERIES



PRODUCT DESCRIPTION

BIDIRECTIONAL Designed for pneumatic transport of air or gases at different temperatures. Possibility of manufacturing wafer type, with drilled flanges, or for welding. Tightness between 97% and 100%. Possibility of using an air sealing system to increase tightness up to 100%. Various construction materials and seal and packing materials available. Face-to-face distance according to the **CMO Valves** standard with the possibility of adapting to customer specifications. Other distances and configurations upon request.

GENERAL APPLICATIONS

Butterfly damper valves are suitable to work with a wide range of air and gases. They are particularly suitable for controlling the flow of gas in pipelines.

Used mainly in:

- Cogeneration plants.
- Thermal power stations.
- Electrical power stations.
- Chemical plants.
- Energy sector.

ML SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From DN80 to DN3000
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.5 bar and temperature is 600°C.
(Other pressures and temperatures on request.)

FLANGES

The face-to-face and flange connections are according to the **CMO Valves** standard, but can also be manufactured to the customer's requirements on request.

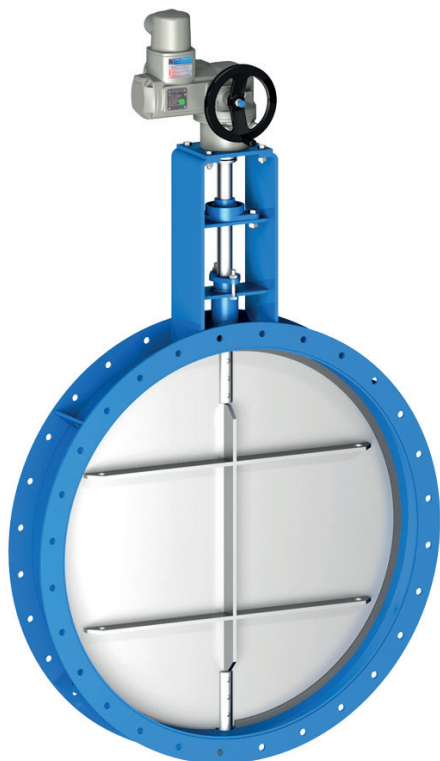
APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

TIGHTNESS

The standard tightness percentage for these valves from **CMO Valves** ranges up to 99%.

MF SERIES



PRODUCT DESCRIPTION

BIDIRECTIONAL Designed for pneumatic transport of air or gases at different temperatures. Possibility of manufacturing wafer type, with drilled flanges, or for welding. Tightness between 97% and 100%. Possibility of using an air sealing system to increase tightness up to 100%. Various construction materials and seal and packing materials available. Distance between widths according to the standard of **CMO Valves** with the possibility of adapting to customer specifications. Other distances and configurations upon request.

GENERAL APPLICATIONS

Butterfly damper valves are suitable to work with a wide range of air and gases. They are particularly suitable for controlling the flow of gas in pipelines.

Used mainly in:

- Cogeneration plants.
- Thermal power stations.
- Electrical power stations.
- Chemical plants.
- Energy sector.
- Etc.

MF SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From DN80 to DN3000
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.5 bar and temperature is 600°C.
(Other pressures and temperatures on request.)

FLANGES

The face-to-face and flange connections are according to the **CMO Valves** standard, but can also be manufactured to the customer's requirements on request.

APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

TIGHTNESS

The standard tightness percentage for these valves from **CMO Valves** ranges between 97% and 100%. To obtain 100% tightness at high temperatures (on request), double clapper systems must be applied and sealed by air injection. It is therefore advisable to replace this model with the "MV" series.

MV SERIES



PRODUCT DESCRIPTION

BIDIRECTIONAL Designed for pneumatic transport of air or gases at different temperatures. Possibility of manufacturing wafer type, with drilled flanges, or for welding. Tightness between 97% and 100%. Possibility of using an air sealing system to increase tightness up to 100%. Various constructions materials and seal and packing materials available. Face-to-face distance according to the **CMO Valves** standard with the possibility of adapting to customer specifications. Other distances and configurations upon request.

GENERAL APPLICATIONS

Butterfly damper valves are suitable to work with a wide range of air and gases. They are particularly suitable for controlling the flow of gas in pipelines.

Used mainly in:

- Cogeneration plants.
- Thermal power stations.
- Electrical power stations.
- Chemical plants.
- Energy sector.

ACCESSORIES FOR THE MV SERIES

Air sealed.

This type of seal is particularly special. The valve is designed with a dual seal, between which air is injected to completely separate the gases on both sides of the swing.

This type of valve requires a dual swing check, which closes against the dual half-moon rim system fitted inside the body. In order to inject air in the seal, a fan system with a check valve is attached, so that the conduit gases cannot escape through the fan pipe when the damper butterfly is open. We therefore calculate that this type of seal achieves tightness of 100%.

MD SERIES

PRODUCT DESCRIPTION

The **MD Series** valve in round, square or rectangular T-shaped damper design. Multiple construction materials, seals and gaskets available. Face-to-face distance according to the **CMO Valves** standard with the possibility of adapting to customer specifications. Normally their use in regulation means they are manufactured with relative tightness. The manufacture of this type of damper also includes the possibility of multi-blade sealing. Various constructions materials and seal and packing materials available.

GENERAL APPLICATIONS

Damper valve that allows gas inlet and outlet flow to be distributed.

Designed for applications such as:

- Cement plants
- Steel plants
- Electrical power stations.
- Chemical plants.
- Energy sector.
- Etc.



MD SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From DN200 to DN 3000
From 200 x 200 to 3000 x 3000
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.5 bar and temperature is 600°C.
(Other pressures and temperatures on request.)

FLANGES

The face-to-face and flange connections are according to the **CMO Valves** standard, but can also be manufactured to the customer's requirements on request.

APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

TIGHTNESS

Standard tightness percentage for **CMO Valves** ranges between 98.5% and 99.5% depending on the seal design. 100% tightness is possible by air injection sealing.

LR SERIES



PRODUCT DESCRIPTION

Multilouvre damper butterfly valve, shutter type, with bidirectional design. Designed for pneumatic transport of air or gases at different temperatures. Various constructions materials and seal and packing materials available. Normally their use in regulation means they are manufactured with relative tightness. Face-to-face distance according to the **CMO Valves** standard with the possibility of adapting to customer specifications.

GENERAL APPLICATIONS

Multilouvre damper butterfly valves are suitable to work with a wide range of air and gases. They are particularly suitable for controlling the flow of gas in pipelines.

Designed for applications such as:

- Cement plants
- Steel plants
- Electrical power stations.
- Chemical plants.
- Energy sector
- Etc.

LR SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From DN400 to DN3000
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.5 bar and temperature is 600°C.
(Other pressures and temperatures on request.)

FLANGES

The face-to-face and flange connections are in accordance with the **CMO Valves** standard, but can also be manufactured to the requirements of the customer on request.

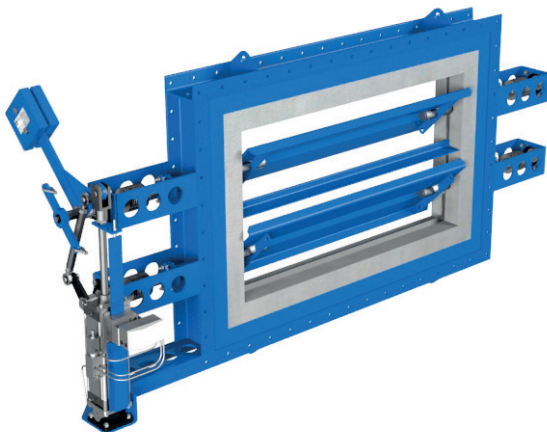
APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

TIGHTNESS

Standard tightness rate for **CMO valves** is between 98.5% and 99.5%.

PL SERIES



PRODUCT DESCRIPTION

Designed for pneumatic transport of air or gases at different temperatures. Possibility of manufacturing wafer type or with drilled flanges. Tightness between 97% and 100%. Possibility of using an air sealing system to increase tightness up to 100%. Various constructions materials and seal and packing materials available. Face-to-face distance in accordance with **CMO Valves standards**. Other distances upon request. Other distances and configurations upon request.

GENERAL APPLICATIONS

Butterfly damper valves are suitable to work with a wide range of air and gases. They are particularly suitable for controlling the flow of gas in pipelines.

Used mainly in:

- Cogeneration plants.
- Thermal power stations.
- Electrical power stations.
- Chemical plants.
- Energy sector.
- Etc.

PL-UL SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From 125 x 125 to 3000 x 3000.
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.5 bar and temperature is 600°C.
(Other pressures and temperatures on request.)

FLANGES

The face-to-face and flange connections are according to the **CMO Valves** standard, but can also be manufactured to the customer's requirements on request.

APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

TIGHTNESS

The standard tightness percentage for these valves from **CMO Valves** ranges between 97% and 100%. To obtain 100% tightness at high temperatures double clapper systems must be applied and sealed by air injection.

UL SERIES

PRODUCT DESCRIPTION

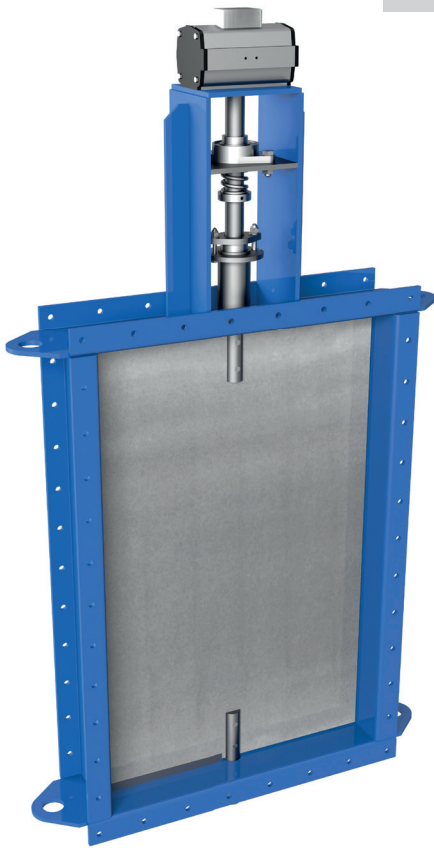
Gas valve, with square or rectangular damper design and single blade. Unidirectional butterfly type damper. Various constructions materials and seal and packing materials available. Face-to-face distance in accordance with **CMO Valves** standards.

GENERAL APPLICATIONS

Butterfly damper valves are suitable to work with a wide range of air and gases. They are particularly suitable for controlling the flow of gas in pipelines.

Used mainly in:

- Cogeneration plants.
- Thermal power stations.
- Electrical power stations.
- Chemical plants.
- Energy sector.
- Etc.



PL-UL SERIES ACCESSORIES

Mechanical stoppers, Locking devices, Emergency manual actuators, Electrovalves, Positioners, Limit switches, Proximity detectors. etc.



MP SERIES

PRODUCT DESCRIPTION

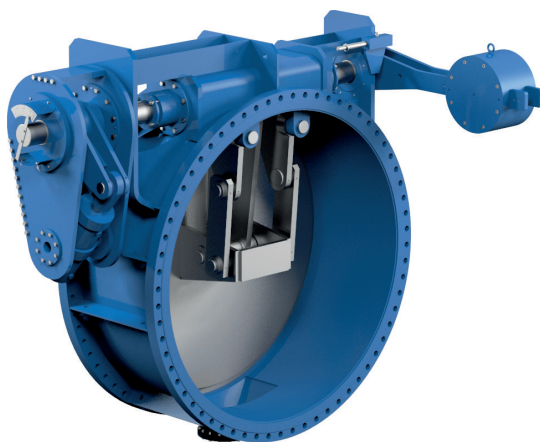
Unidirectional, circular gas valve, with a damper design that incorporates an eccentric front seal by means of a series of levers with 90° rotation. Construction materials and seals as required. Face-to-face distance in accordance with **CMO Valves** standard. The body of this type of damper is usually mechanically welded and built with sheet metal of different thicknesses with reinforcements and structural profiles to avoid possible deformations.

GENERAL APPLICATIONS

The **MP** multiple lever valve model is suitable for working with a wide range of gas fluids at various pressures up to 40 bar and 600°C. The main characteristic of this valve is that in the pneumatic version, it operates at a pre-established differential pressure.

Designed for applications such as:

- Cement plants
- Steel plants
- Electrical power stations.
- Chemical plants.
- Energy sector



MP SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

DN250 to DN2000.
(larger sizes on request)

WORKING PRESSURE (ΔP)

The working pressure is determined by each project as well as the working temperature.

FLANGES

- EN1092 PN10.
- ASME B16.5 (Class 150).
- Others on request.

APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

TIGHTNESS

The standard tightness percentage of **CMO Valves** ranges from 99.9% as per DIN3230-3 for the metal/graphite seated version and 100% tightness with the rubberised seal.

VD SERIES



PRODUCT DESCRIPTION

VD bidirectional multisector damper diaphragm valve. Designed for pneumatic transport of air or gases at different temperatures. Manufactured using **CMO Valves** standards for drilled flanges. Tightness between 98% and 99%. Face-to-face distance in accordance with **CMO Valves** standard.

GENERAL APPLICATIONS

These multisector damper diaphragm valves are suitable to work with a wide range of air and gases. They are particularly suitable for controlling the flow of gas in pipelines.

Used mainly in:

- Cogeneration plants.
- Thermal power stations.
- Electrical power stations.
- Chemical plants.
- Energy sector.

VD SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From DN100 to DN600.
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.25 bar and temperature is 200°C .
(Other pressures and temperatures on request.)

FLANGES

These valves are attached to the pipeline by screwing in the drilled flanges with which the equipment is manufactured. The face-to-face and flange connection is according to **CMO Valves** standard, however, on request, other options can also be built adapting to the needs of the customer.

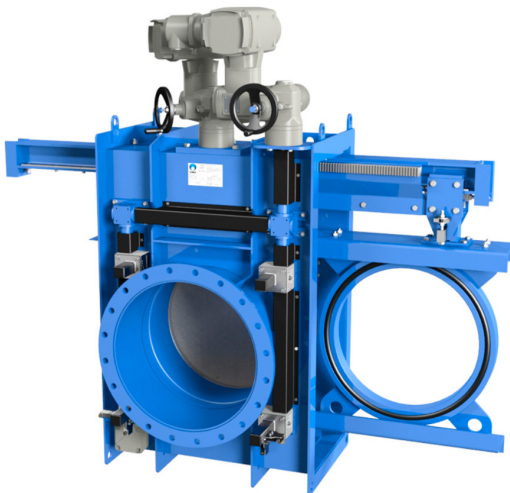
APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

TIGHTNESS

Standard tightness percentage ranges between 97% and 100%. To obtain 100% tightness double clapper systems must be applied, sealed by air injection.

GF SERIES



PRODUCT DESCRIPTION

The goggle damper valve is a specially designed valve to isolate a pipe area in environments with high dust concentration. Once the gate is closed, it is pushed by hydraulic jacks to press it against the gate and thus ensure tightness. When the goggle is fully open the conduit is completely free, so there are no pressure drops. It cannot be used for regulation purposes.

GENERAL APPLICATIONS

The goggle damper is designed for pneumatic transport of air or gases at different temperatures. They are particularly suitable for controlling the flow of gas in pipelines.

Designed for applications such as:

- Cement plants
- Steel plants
- Electrical power stations.
- Chemical plants.
- Energy sector.

GF SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From DN500 to DN2500.
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is <0.5 bar and temperature of 600°C .
(Other pressures and temperatures on request.)

FLANGES

These valves are attached to the pipeline by screwing in the drilled flanges with which the equipment is manufactured. The face-to-face and flange connection is according to **CMO Valves** standard, however, on request, other options can also be built adapting to the needs of the customer.

APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

SEALTIGHT INTEGRITY

The closing is achieved by pressing a seal installed in the gate against the valve body. The standard tightness percentage for these valves is 100%.

SD-SP SERIES



PRODUCT DESCRIPTION

Quick closing flanged unidirectional valve with oscillating disc. With a cast or mechanically welded body and obturator in different materials. Possibility of multiple options for closures: Various elastomers or hardened seals. Usually it has a pneumatic actuator by means of a rotary lever to obtain the quick closing movement. An arrow is marked on the body indicating the flow direction. Face-to-face distance in accordance with **CMO Valves standards**.

GENERAL APPLICATIONS

Valve specially designed for the pneumatic transport of highly abrasive dry fluids such as fly ash due to its advantageous continuous flow .

Designed for applications such as:

- Cement plants
- Steel plants
- Chemical plants.
- Energy sector.

SD-SP SERIES TECHNICAL DATA

STANDARD PRODUCTION SIZE:

From DN80 to DN600.
(larger sizes on request)

WORKING PRESSURE (ΔP)

The standard maximum working pressure is 8 bar in the closing direction and 1 bar for the opposite part.

FLANGES

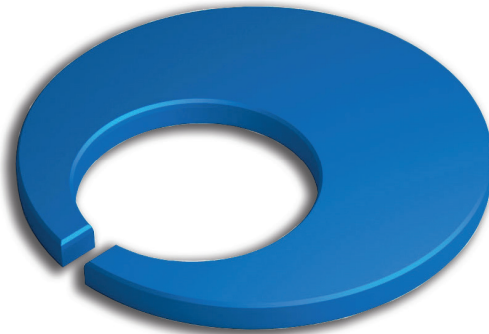
- EN1092 PN10.
- ASME B16.5 (Class 150).
- Others on request.

APPLICATION OF EUROPEAN DIRECTIVES

See the applicable Directives document for **CMO Valves**.

SEALTIGHT INTEGRITY

The standard tightness percentage of **CMO Valves** ranges from 98.5% and 99.5% for the metal / metal closure version and a 100% seal with the rubberised seal.



AND BEHIND CMO VALVES LIES QUALITY, THE WARRANTY AND COMMITMENT TO THE ENVIRONMENT

CMO Valves makes a firm commitment to the environment. We make a full commitment because the future of all of us depends on it, which is why we work responsibly to protect the environment. And we do this in two ways:

- Using non-toxic materials, which are 100% recyclable at the end of their useful life.
- Providing the best solutions to our customers so that they can also help protect the environment. Customers who work in drinking water plants, wastewater treatment plants, drinking water pumping stations and energy recovery plants...



www.cmovalves.com



CMO VALVES

QMS CERTIFIED BY LRQA
Approval number ISO9001 0035593

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