VALVES
AND
DAMPERS
FOR
AIR & GASES
SERIES GR
VALVE FOR GASES

PRODUCT DESCRIPTION
Round Damper guillotine type GR manufactured by CMO is especially useful as an element of isolation to allow inspections, maintenance and repairs on the pipes.

The basic mechanical elements that make up the guillotine type of damper GR, is a rack or foreign body that contains a piece that moves inside lengthwise, a sealing peripheral to prevent leakage of gas in all phases of the movement of the knife of gate, necessary supports and an actuator.

GENERAL APPLICATIONS
This damper knife gate valve is appropriate for a wide range of air & gases applicationssigned for a wide range of applications such as:
- Cement Plants
- Steel Plants
- Chemical plants.
- Power plants.
- …

TECHNICAL DATA FOR GR SERIES
Standard manufacturing sizes:
From DN50 up to DN3000 (bigger sizes under request) GR Series
50x50 up to 3000x3000 (bigger sizes under request) GC Series
Also rectangular designs available
Working pressures:
From DN 50 to DN 2000: 0.5 (kg/cm²)
Higher pressures available under request
Flange connection drillings:
The standard flange connection is according to CMO design but any flange design and drill can be done
Applied Directives:
Tightness
From 98,5% to 99,5% Also available under request 100% tightness with double gate and air flushing system

SERIES GC
VALVES FOR GASES

PRODUCT DESCRIPTION
Square or Rectangular Damper guillotine type GR manufactured by CMO is especially useful as an element of isolation to allow inspections, maintenance and repairs on the pipes.

The basic mechanical elements that make up the guillotine type of damper GC, is a rack or foreign body that contains a piece that moves inside lengthwise, a sealing peripheral to prevent leakage of gas in all phases of the movement of the knife of gate, necessary supports and an actuator.

GENERAL APPLICATIONS
This damper knife gate valve is appropriate for a wide range of air & gases applicationssigned for a wide range of applications such as:
- Cement Plants
- Steel Plants
- Chemical plants.
- Power plants.
- …

ACCESORIES FOR GR-GC SERIES
Mirror Polished Gate, Stellited gate, Scraper in the packing, Air injection in the packing gland, Flushing holes in body
Mechanical Limit Switches, Inductive Switches and Positioners
Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops
Mechanical locking device

C.M.O.
Amategui Aldea 142, 20400 Txarama-Tolosa (SPAIN)
Phone: + 34 902 40 80 50 / Fax: + 34 902 40 80 51 / cmo@cmo.es  http://www.cmo.es
SERIES MF
VALVE FOR GASES

PRODUCT DESCRIPTION
Flanged or wafer butterfly damper valve. Cast or welded body and disc depending the diameter of the valve. Manufactured with different kinds of tightness depending the customer requirements (100% tight, 99.5% tight or 98.5% tight). Fabrication materials: S275JR carbon steel, HII carbon steel, 16MO3 carbon steel, different stainless steel qualities (aisi 304, 316, 310 ...). Depending the application.

GENERAL APPLICATIONS
Pneumatic transports, exhaust gas control on chimneys, exhaust gas control on combustion processes, gas turbine exhaust gas control ...
Actuators: Manual, pneumatic, electric ... Working pressure: According to the standard manufacturing way these valves are designed to resist 0.5 kg/cm2 at ambient temperature.
- Cement Plants
- Steel Plants
- Chemical plants.
- Power plants.
- ...

TECHNICAL DATA FOR MF-LR SERIES
Standard manufacturing sizes:
From DN50 up to DN3000 (bigger sizes under request) MF Series
Also rectangular designs available
Working pressures:
From DN 50 to DN 2000: 0.5 (kg/cm2)
Higher pressures available under request
Flange connection drillings:
The standard flange connection is according to CMO design but any flange design and drill can be done
Applied Directives:
Tightness
From 97% to 99.5% Also available under request 100% tightness with double gate and air flushing system

SERIES LR
VALVES FOR GASES

PRODUCT DESCRIPTION
Flanged or wafer butterfly damper valve. This valve is equal to the type MF with the difference that instead of one disc the valve is composed by several blades. The valve is manufactured with welded construction. Manufactured with different kinds of tightness depending the customer requirements (100% tight, 99.5% tight or 98.5% tight). Fabrication materials: S275JR carbon steel, HII carbon steel, 16MO3 carbon steel, different stainless steel qualities (aisi 304, 316, 310 ...). Depending the application.

GENERAL APPLICATIONS
Pneumatic transports, exhaust gas control on chimneys, exhaust gas control on combustion processes, gas turbine exhaust gas control ...
Actuators: Manual, pneumatic, electric ... Working pressure: According to the standard manufacturing way these valves are designed to resist 0.5 kg/cm2 at ambient temperature.
- Cement Plants
- Steel Plants
- Chemical plants.
- Power plants.
- ...

ACCESSORIES FOR MF-LR SERIES
Mirror Polished Gate, Stellited gate, Scraper in the packing, Air injection in the packing gland, Flushing holes in body Mechanical Limit Switches, Inductive Switches and Positioners Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops Mechanical locking device
SERIES PL
VALVE FOR GASES

PRODUCT DESCRIPTION
Flanged light butterfly, square, rectangular louvred type, several blades. Welded construction body and disc. Manufactured with different kinds of tightness depending the customer requirements (100% tight, 99.5% tight or 98.5% tight). Fabrication materials: S275JR carbon steel, HIi carbon steel, 16MO3 carbon steel, different stainless steel qualities (aisi 304, 316, 310 ...). Depending the application.

GENERAL APPLICATIONS
Pneumatic transports, exhaust gas control on chimneys, exhaust gas control on combustion processes, gas turbina exhaust gas control ...

Actuators: Manual, pneumatic, electric ... Working pressure: According to the standard manufacturing way these valves are designed to resist 0.25 kg/cm² at ambient temperature.

- Cement Plants
- Steel Plants
- Chemical plants.
- Power plants.
- ...

TECHNICAL DATA FOR PL-UL SERIES

Standard manufacturing sizes:
From 400x400 up to 5000x5000 (bigger sizes under request)
Also rectangular designs available

Working pressures:
0.25 (kg/cm²)
Higher pressures available under request

Flange connection drillings:
The standard flange connection is according to CMO design but any flange design and drill can be done

Applied Directives:

Tightness
From 97% to 99.5%

SERIES UL
VALVES FOR GASES

PRODUCT DESCRIPTION
Flanged light butterfly, square, rectangular single blade. Welded construction body and disc. Manufactured with different kinds of tightness depending the customer requirements (100% tight, 99.5% tight or 98.5% tight). Fabrication materials: S275JR carbon steel, HIi carbon steel, 16MO3 carbon steel, different stainless steel qualities (aisi 304, 316, 310 ...). Depending the application.

GENERAL APPLICATIONS
Pneumatic transports, exhaust gas control on chimneys, exhaust gas control on combustion processes, gas turbina exhaust gas control ...

Actuators: Manual, pneumatic, electric ... Working pressure: According to the standard manufacturing way these valves are designed to resist 0.25 kg/cm² at ambient temperature.

- Cement Plants
- Steel Plants
- Chemical plants.
- Power plants.
- ...

ACCESORIES FOR PL-UL SERIES

Mirror Polished Gate, Stellited gate, Air injection in the packing gland, Flushing holes in body, Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops, Mechanical locking device.
**PRODUCT DESCRIPTION**

Specially designed to be mounted in installations for transport of solids of fine grain as cement, ash, sand, etc. In all type of industry with pneumatic transport, by pipes with flanges or in inlets and outlets of silos. The normal in this kind of work where the standard pressures are from 0 to 2 kg/cm². Other pressures to be discussed.

**Construction:** Body in cast iron, steel, stainless steel, etc. Seat: metal/metal - Aisi 304 + stellite metal/rubber - Aisi 304 + EPDM Shafts: Aisi 304 Tightness to the outside, depending on the temperature and working conditions.

**Temperature:** from -10 to +900°C

**Drivers:** Manual, pneumatic, electric, etc.

---

**TECHNICAL DATA FOR SD-SP SERIES**

- **Standard manufacturing sizes:** From DN 50 up to DN 600 (bigger sizes under request)
- **Working pressures:** 1 (kg/cm²)
- **Higher pressures available under request**
- **Flange connection drillings:** The standard flange connection is according to CMO design but any flange design and drill can be done
- **Tightness** 100%

---

**SERIES MP**

**VALVES FOR GASES**

**PRODUCT DESCRIPTION**

Round-port isolating valve actuated by a three-lever system that rotates the disc through 90°. Welded construction can withstand high pressures up to 40 bar, depending on dimensions, and temperatures up to 500°C.

**GENERAL APPLICATIONS**

Pneumatic transports, exhaust gas control on chimneys, exhaust gas control on combustion processes, gas turbine exhaust gas control ...

**Actuators:** Manual, pneumatic, electric ... **Working pressure:** According to the standard manufacturing way these valves are designed to resist 10 kg/cm² at ambient temperature (higher pressures under request)

- Cement Plants
- Steel Plants
- Chemical plants.

---

**TECHNICAL DATA FOR MP SERIES**

- **Standard manufacturing sizes:** From DN 50 up to DN 600 (bigger sizes under request)
- **Working pressures:** 1 (kg/cm²)
- **Higher pressures available under request**
- **Flange connection drillings:** The standard flange connection is according to CMO design but any flange design and drill can be done
- **Tightness** 100%