



PRODUCT OVERVIEW

Damper valves for gas applications



ARP Industry develops and manufactures industrial valve solutions in a wide range of applications taking advantage of our strong commercial expertise, technical competence and long-established experience. Our damper valves are designed for **low pressure** and they are suitable for **medium to high temperature gas applications**, typically hot air or flue gas up to 1000 °C. Various fields of application include incineration plants, biomass combustion plants, thermal power stations, foundries, industrial furnaces, dryers, gas turbines, air treatment plants and other thermal processes.

All valves are suitable for both control (regulating, modulating) or on/off (isolation, interception) service, and can be actuated by:

- lever or handwheel,
- pneumatic actuator, positioner and solenoid valve,
- electric actuators.

The actuated valves are fully assembled and tested to standards

and customer specifications by our qualified technicians. All valves can be equipped with micro switches for position monitoring. The carpentry construction allows the choice of any type of material depending on the use, temperature and corrosive media. Dimensions, cross section and damper connection can be customized to meet specific process requirement.

Several **blade seal options** are available:

- **No seal** between the blade and frame: used when no particular sealing is required - Geometric sealing 95% of total internal section.
- **Metallic blade seal**: used when a minimum tightness is required - Achievable tightness Class I to II, according to FCI 70-2.



- **Blade seal in harmonic steel**: it is applied to improve seat tightness - Achievable tightness Class I to III, according to FCI 70-2.
- **Soft sealing**: it is deployed to guarantee a good tightness performance - Achievable tightness Class II to III/IV, according to FCI 70-2.
- **Air sealing with harmonic metal seal**: it is used to achieve excellent sealing - total sealing with pressurized sealing chamber.

Declaration of conformity where applicable:

ATEX Directive 2014/34/EU
Machine Directive 2006/42/EC
Pressure Equipment Directive (PED) (2014/68/EU)

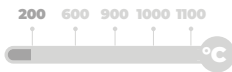
As standard the shaft sealing is guaranteed by braid packing. For perfect tightness, the integrated lantern ring with compressed air insufflation option is available. Other types of shaft sealing are available on request.

The maximum design pressure varies according to maximum temperature and valve size.

Butterfly valve for gases Type CS-L10 Series



Max temperature 200°C



TECHNICAL CHARACTERISTICS

- Diameter range DN150 ÷ DN1500
- Max pressure 0,5 barg
- Interception or modulating service
- Designed for 50 mm insulation
- Max Leakage Class III/IV (FCI 70-2)

End connections:

- Bolted flanges
- Wafer
- Butt welded

Materials:

- Carbon steel
- CORTEN A
- Wear resistant steel
- Ferritic, austenitic, and duplex stainless steel

Packing:

- No seal
- Graphite braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Butterfly valve for gases Type CS-M11 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Diameter range DN150 ÷ DN1500
- Max pressure 0,5 barg
- Interception or modulating service
- Designed for 200 mm insulation
- Max Leakage Class III/IV (FCI 70-2)

End connections:

- Bolted flanges
- Wafer
- Butt welded

Materials:

- CORTEN A
- EN 10028-2 high temperature steel
- Ferritic, and austenitic stainless steels

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

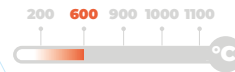
- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Air sealing valve Type CA-M21 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Diameter range DN150 ÷ DN3000
- Max pressure 0,5 barg
- Interception or modulating service
- Designed for 200 mm insulation
- Perfect tightness with air sealing

End connections:

- Bolted flanges
- Butt welded

Materials:

- CORTEN A
- EN 10028-2 high temperature steel
- Ferritic, and austenitic stainless steels

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

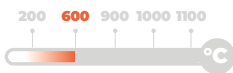
- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Butterfly valve for gases Type CF-M11 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Diameter range DN50 ÷ DN150
- Design pressure up to 3 barg
- Interception or modulating service
- Designed for 200 mm of insulation
- Max Leakage Class II (FCI 70-2)

End connections:

- Wafer

Materials:

- CORTEN A
- EN 10028-2 high temperature steel
- Ferritic, and austenitic stainless steels

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

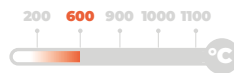
Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2

Butterfly valve for gases Type CS-M21 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Diameter range DN150 ÷ DN3000
- Design pressure up to 3 barg
- Interception or modulating service
- Designed for 200 mm of insulation
- Max Leakage Class III/IV (FCI 70-2)

End connections:

- Bolted flanges
- Wafer
- Butt welded

Materials:

- CORTEN A
- EN 10028-2 steels for high temp.
- Ferritic, and austenitic stainless steels

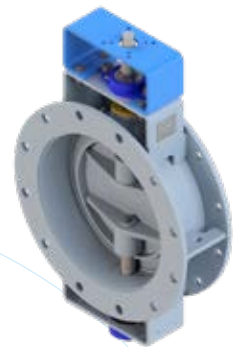
Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

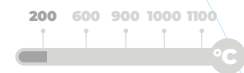
Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2

Double offset butterfly valve for gases Type CO-L20 Series



Max temperature 260°C



TECHNICAL CHARACTERISTICS

- Diameter range DN80 ÷ DN1500
- Design pressure up to 3 barg
- Interception service
- Max Leakage Class VI (FCI 70-2) with O-Ring blade seal and S.Steel seat

End connections:

- Bolted flanges
- Wafer

Materials:

- Carbon steel
- Ferritic, austenitic, and duplex stainless steel

Packing:

- Energized rings and O-Rings
- Rings packing, TA-Luft

Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2

Butterfly valve for gases Type CS-H21 Series



Max temperature 1000°C



TECHNICAL CHARACTERISTICS

- Diameter range DN150 ÷ DN2000
- Max pressure 0,5 barg
- Interception or modulating service
- Max Leakage Class III/IV (FCI 70-2)
- Designed for 200 mm of insulation

End connections:

- Bolted flanges
- Wafer
- Butt welded

Materials:

Internal parts with hot corrosion and creep resistant alloy:

- AISI 310S
- Alloy 253Ma
- Inconel 601 alloy
- Alloy 800 HT

Packing:

- Ceramic fiber with inconel core braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

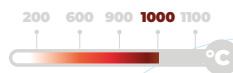
- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Double body ceramic fiber lined butterfly valve for gases Type CS-H22 Series



Max temperature 1000°C



TECHNICAL CHARACTERISTICS

- Diameter range DN150 ÷ DN2000
- Max pressure 0,5 barg
- Interception or modulating service
- Max Leakage Class III/IV (FCI 70-2)

End connections:

- Bolted flanges

Materials:

Internal parts with hot corrosion and creep resistant alloy:

- AISI 310S
- Alloy 253Ma
- Inconel 601 alloy
- Alloy 800 HT

Packing:

- Ceramic fiber with inconel core braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

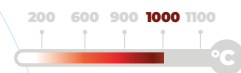
- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Refractory lined butterfly valve for gases Type CS-H23 Series



Max temperature 1000°C



TECHNICAL CHARACTERISTICS

- Diameter range DN150 ÷ DN2000
- Max pressure 0,5 barg
- Interception or modulating service
- Max Leakage Class III/IV (FCI 70-2)

End connections:

- Bolted flanges

Materials:

Internal parts with hot corrosion and creep resistant alloy:

- AISI 310S
- Alloy 253Ma
- Inconel 601 alloy
- Alloy 800 HT

Packing:

- Ceramic fiber with inconel core braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

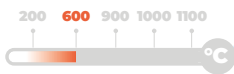
- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Double blade butterfly valve for gases Type CD-M21 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Diameter range DN300 ÷ DN3000
- Max pressure 0,5 barg
- Interception or modulating service
- Designed for 200 mm insulation
- Max Leakage Class III (FCI 70-2)
- Perfect tightness with air sealing chamber

End connections:

- Bolted flanges

Materials:

- CORTEN A
- EN 10028-2 steel for high temp
- Ferritic, and austenitic stainless steel

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

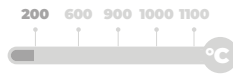
Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2

Louver damper for gases Type RS-L10 Series



Max temperature 200°C



TECHNICAL CHARACTERISTICS

- Size range upon request
- Max pressure 0,5 barg
- Isolating or modulating service
- Designed for 50 mm insulation
- Max Leakage Class III (FCI 70-2)
- Perfect tightness with air sealing chamber

End connections:

- Bolted flanges according to customer specification

Materials:

- Carbon steel
- CORTEN A
- Wear resistant steel
- Ferritic, austenitic and duplex stainless steel

Packing:

- No seal
- Graphite braid packing
- Braid packing with lantern ring and air sealing
- Elastomeric flat gasket

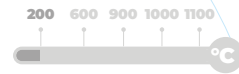
Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Testing EN12266, ANSI/FCI70-2

Multi louver damper for gases Type RM-L20 Series



Max temperature 200°C



TECHNICAL CHARACTERISTICS

- Size range upon request
- Max pressure 0,5 barg
- Interception or modulating service
- Designed for 50 mm insulation
- Geometric tightness 98%

End connections:

- Bolted flanges according to customer specification

Materials:

- Carbon steel
- CORTEN A
- Wear resistant steel
- Ferritic, austenitic and duplex stainless steel

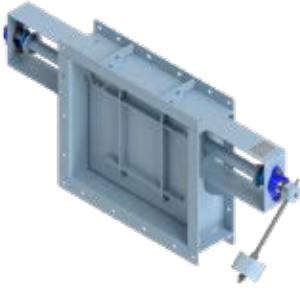
Packing:

- No seal
- Graphite braid packing
- Braid packing with lantern ring and air sealing
- Elastomeric flat gasket

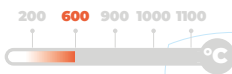
Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Testing EN12266, ANSI/FCI70-2

Non return damper for gases Type RC-M21 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Size range upon request
- Max pressure 0,5 barg
- Interception service
- Designed for 200 mm insulation
- Max Leakage Class III (FCI 70-2)

End connections:

- Bolted flanges according to customer specification

Materials:

- CORTEN A
- EN 10028-2 steel for high temp
- Ferritic, and austenitic stainless steel

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

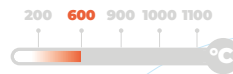
- Design EN 593, EN 12516, ASME B16.34
- Testing EN12266, ANSI/FCI70-2



3-ways By-pass valve for gases Type CB-M11 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Diameter range DN100 ÷ DN2500
- Max pressure 0,5 barg
- Interception or modulating service
- Designed for 200 mm insulation
- Max Leakage Class III/IV (FCI 70-2)
- Perfect tightness with air sealing chamber

End connections:

- Bolted flanges

Materials:

- CORTEN A
- EN 10028-2 steel for high temp.
- Ferritic, and austenitic stainless steel

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

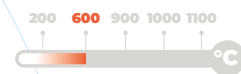
- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Guillotine damper for gases Type CG-M01 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Size range upon request.
- Rectangular or round section
- Max pressure 0,5 barg
- Interception service
- Max Leakage Class III/IV (FCI 70-2)

End connections:

- Bolted flanges

Materials:

- CORTEN A
- Wear resistant steels
- EN 10028-2 steels for high temp
- Ferritic and austenitic stainless steel

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



Louver damper for gases Type RS-M11 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Size range upon request
- Max pressure 0,5 barg
- Interception service
- Designed for 200 mm of insulation
- Max Leakage Class III (FCI 70-2)
- Perfect tightness with air sealing chamber

End connections:

- Bolted flanges according to customer specification

Materials:

- CORTEN A
- EN 10028-2 steel for high temp.
- Ferritic, and austenitic stainless steel

Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Testing EN12266, ANSI/FCI70-2

Multi louver damper for gases Type RM-M21 Series



Max temperature 600°C



TECHNICAL CHARACTERISTICS

- Size range upon request
- Max pressure 0,5 barg
- Interception service
- Designed for 200 mm of insulation
- Geometric tightness 99%
- Perfect tightness with air sealing chamber

End connections:

- Bolted flanges according to customer specification

Materials:

- CORTEN A
- EN 10028-2 steel for high temp.
- Ferritic, and austenitic stainless steel

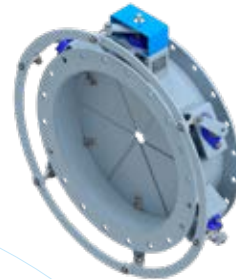
Packing:

- Graphite braid packing
- Braid packing with lantern ring and air sealing

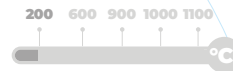
Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Testing EN12266, ANSI/FCI70-2

Radial vane damper for gases Type CR-L30 Series



Max temperature 200°C



TECHNICAL CHARACTERISTICS

- Diameter range DN300 ÷ DN2000
- Max pressure 0,5 barg
- Inlet fan modulating service
- Designed for 50 mm insulation

End connections:

- Bolted flanges

Materials:

- Carbon steel
- CORTEN A
- Wear resistant steel
- Ferritic, austenitic and duplex stainless steel

Packing:

- Bronze bushing

Applicable standards:

- Design EN 593, EN 12516, ASME B16.34
- Flanges EN 1092-1, ASME B16.5, others on request
- Testing EN12266, ANSI/FCI70-2



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