CCMG

Hot gases dampers and valves
Regulation and isolation
Designer and constructor

AIR BARRIER DAMPER RBA-S   REV 00

Application areas

RBA-D is an insulation damper 100 % tight by air barrier, which is recommended when there is an absolute necessity to avoid any passage of gas from upstream to downstream. For example :

- Insulation of cogeneration engine or turbine
- Insulation of boiler or fan
- Current temperature around 550 °C
- Current pressure up to 600 mm of WK

RBA-S exists in multilouvre version

Construction

- Fabricated body based on U folded sheet forming two connecting flanges
- Two blades linked by two connecting rods and one adjustable rod; they move together keeping parallel
- Two drive shafts
- Two shafts opposite to the drive
- Guiding of the shafts by self adjusting ball bearings fitted on supports
- Shafts sealing by gland type stuffing box
- Reinforcement between flanges with lifting points
- Standard painting: one layer of primer; other systems on demand

Materials   (examples)

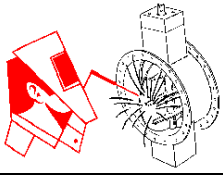According to application and temperature :
- Body and butterfly : Carbon steel, Chromium alloys, Stainless steel
- Shafts : Carbon steel, Stainless steel

Upstream / downstream tightness

- Butterflies in contact with square metal profile or ceramic fibre tress
- When the butterflies close, one air barrier fan injects air in the space between the body and the two butterflies. The over pressure obtained in that space avoids any passage of gas from upstream to downstream. Only the air from the fan leaks both sides of the damper.

Actuation

- Electrical with manual steering wheel
- Pneumatic double and single acting
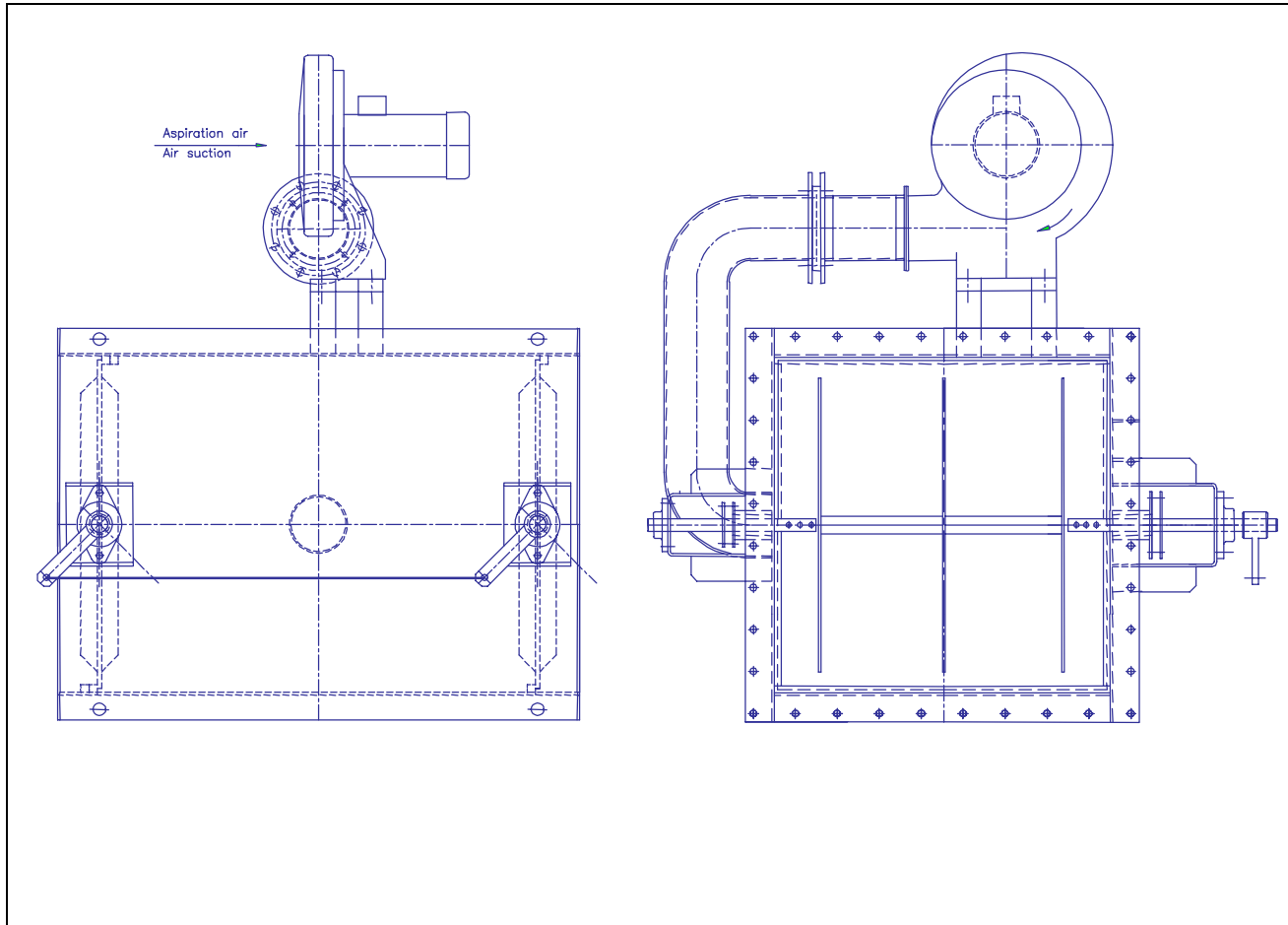- Hydraulic
- Shut off function
- Limit switches

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Aspiration air
Air suction

Section	Thickness	External section	Overall	Drilling pattern

Dimensional details on demand

Multilouvre dampers are manufactured in a wide variety of sizes and are generally built to the customer supplied dimensions. When possible, the space constraints are taken into account.

Only the general arrangement drawing of the order is contractual