



Circular Series Butterfly Type Isolation Dampers



M.C. Air Filtration manufacture's a range of high integrity isolation dampers suitable for use in a wide range of critical ventilation & process applications associated with nuclear, biotechnology, pharmaceutical, research & hospital facilities.

The M.C. Air Filtration range of circular butterfly type isolation damper was initially developed to provide positive isolation to our own range of high integrity bag in bag out filter housings and systems. However the size range has now been extended to suit a wider range of 3rd party critical ventilation and process applications.

Construction:

Body & flanges	All welded construction from carbon steel with a white decontaminable epoxy coat finish or 304L / 316L grade stainless steel
Blade	Double skin construction from carbon steel with a white decontaminable epoxy coat finish or 304L / 316L grade stainless steel
Operating spindles	304L / 316L grade stainless steel with bronze iolite bushes and nitrile rubber O ring seals
Hand lever	304L / 316L grade stainless steel
Blade seal	Extruded silicone rubber
Actuation	¼ turn hand-lever & quadrant plate with positive thumb screw locking in both the fully open & closed positions (supplied with or without padlock option) Electric or Pneumatic actuation (power open -power close or failsafe spring return)

Quality Control:

All M.C. Air Filtration isolation dampers are manufactured and tested under strict quality controlled conditions in accordance with our BS EN ISO 9001:2008 accreditation.

Each damper will be individually factory tested and allocated with a unique serial number for future traceability.

Alternative sizes, specifications and materials of construction are available; please contact our Sales office to discuss your specific requirements.

Standard Range					
Damper size	Blade Ø (mm)	O/all flange Ø (mm)	Body depth (mm)	*Flange drilling	Weight (Kg)
100 Ø	100	170	125	8 holes 10 Ø on 140 PCD	4
150 Ø	150	220	125	8 holes 10 Ø on 190 PCD	5.5
200 Ø	200	270	125	12 holes 10 Ø on 240 PCD	8
250 Ø	250	320	125	12 holes 10 Ø on 290 PCD	11
300 Ø	300	375	125	16 holes 12 Ø on 345 PCD	14
350 Ø	350	456	125	16 holes 12 Ø on 406 PCD	19
400 Ø	400	490	125	16 holes 14 Ø on 455 PCD	22
450 Ø	450	540	125	20 holes 14 Ø on 505 PCD	25
500 Ø	500	590	125	20 holes 14 Ø on 555 PCD	30
600 Ø	600	690	125	24 holes 14 Ø on 655 PCD	42

* Flanges are flat face 6mm thick and drilled off centres

Non-standard sizes are available on request

Temperature

Standard product is suitable for use at temperatures between 5°C & 70°C however both low and high temperature options are available to special order.

Factory Testing

After manufacture each isolation damper will be air pressure leak tested to ensure it is leak free across the blade and all seals. The test pressure can be specified at any value between ± 1KPa & 6KPa

Rectangular Series Butterfly Type Isolation Dampers:

Square & rectangular series butterfly type isolation dampers. Developed using the same design principles as our circular series damper however the body & blade are flat sided with radiused corners.

Bio-Seal Butterfly Type Isolation Dampers:

Bio-seal cylindrical & rectangular series isolation dampers incorporate 2 blades & blade seals in series and are provided with pressure testing ports and where required fumigation ports.

Multi-blade Isolation Dampers:

Conventional square & rectangular section ultra-low leakage and zero leakage positive closure multi-blade isolation dampers.

