

LARGE FORMAT

D75 RANGE

***GALVANISED/ ALL STAINLESS STEEL
LOW LEAK/ CONTROL DAMPERS***

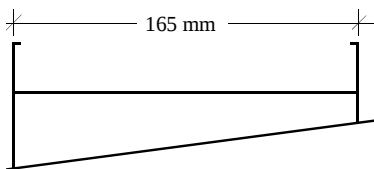
FROM



UNIT 6 Newton Moor Ind. Est., Lodge Street, Newton, Hyde, Cheshire SK14 4LD
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DAMPER CASING/ MATERIAL SPECIFICATION

STANDARD FLANGE



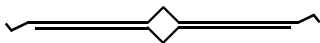
Flanged dampers can be ordered with 30 mm or 40 mm flanges to match various proprietary flange systems

Damper face to face dimension can be manufactured to suit customers requirements

BLADE OPTIONS



STANDARD SINGLE SKIN
16 SWG Galvanised mild steel
304-2B, 316-2B St/Steel



DOUBLE SKIN
16 SWG Galvanised mild steel
304-2B, 316-2B St/Steel



DOUBLE SKIN AEROFOIL
16 SWG Galvanised mild steel
304-2B, 316-2B St/Steel



STANDARD ALUMINIUM
2 mm thick, semi aerofoil



AEROFOIL ALUMINIUM
2 mm thick, aerofoil

DESIGN FEATURES

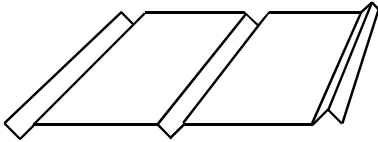
GALVANISED/ALUMINIUM or all STAINLESS STEEL DAMPERS

- 165 mm Deep casing with a 30 mm or 40 mm Flange
- Fully interlocking blades
- Variety of blade profiles
- Opposed or Parallel blades
- Galvanised mild steel, Stainless Steel or Aluminium casing
- Galvanised mild steel/Stainless Steel/Aluminium Blades
- External Linkage
- Manual, Motorised or bare shaft
- Unsealed, Semi sealed or Fully sealed models
- Sizes from 200 mm—2400 mm & multi module assemblies

MATERIAL SPECIFICATIONS

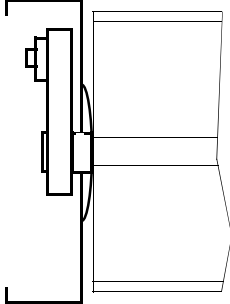
1. **FLANGED CASING. (OPTIONS)**
1.6 mm / 2.0 mm / 3.0 mm Galvanised mild steel
1.6 mm / 2.0 mm / 3.0 mm 304 2B Stainless Steel
1.6 mm / 2.0 mm / 3.0 mm 316 2B Stainless Steel
2.5 mm Aluminium alloy
Option of Fully Welded Casing
2. **BLADES.**
1.6 mm Galvanised mild steel
1.6 mm 304 2B / 316 2B Stainless Steel
Extruded aluminium aerofoil
See blade option section for variations
3. **BLADE SEALS**
Dual hardness seals. Temperature range -50°C / $+80^{\circ}\text{C}$
Stainless Steel spring loaded side seals
4. **BEARINGS**
Nylon, Brass, 'Oilite', Fully sealed roller bearings
5. **LINKAGE**
Glass filled nylon / Aluminium alloy
All Aluminium alloy
All Stainless Steel. 304 / 316 Grades
6. **SPINDLES**
 $\frac{1}{2}$ inch $\varnothing$ Electroplated mild steel (stub axles)
 $\frac{1}{2}$, $\frac{3}{4}$, 1 inch $\varnothing$, 304 / 316, Stainless Steel
(stub or continuous)
7. **MANUAL CONTROL**
Aluminium alloy Quadrant
St/Steel Quadrant, 304 / 316, Stainless Steel

SEAL OPTIONS



Standard unsealed damper, with a choice of galvanised steel, stainless steel, aluminium blades. Opposed action to achieve the optimum flow characteristics.

BALANCING DAMPERS



Used as a balancing damper, but with the addition of spring loaded stainless steel side seals between the blade ends and damper casing. Blade action can be opposed or parallel.

SEMI SEALED/INTERMEDIATE

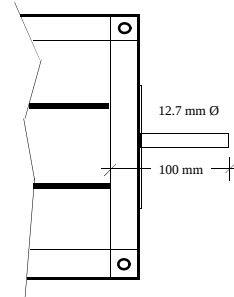
As the semi sealed/intermediate, but with the addition of dual hardness blade tip seals. To suit applications where a tight shut off is required, i.e. isolation.

FULLY SEALED

CONTROL OPTIONS

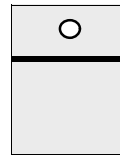
- A) Hand Quadrant: Allows system balancing, blades can be locked in position by a wing nut.
- B) Gearbox: Allows fine adjustment of blades. Gearbox ratio 1:9

MANUAL CONTROL



All damper models are supplied with a bare shaft to allow fitment of control device by others

BARE SHAFT



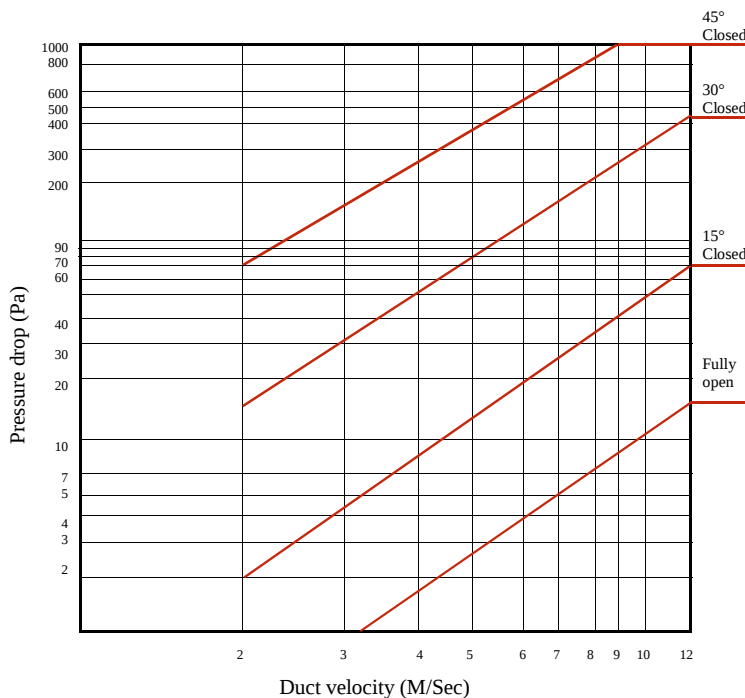
All dampers can be supplied fitted with electric or pneumatic actuators from a variety of manufacturers.

MOTOR / ACTUATORS

PERFORMANCE DATA

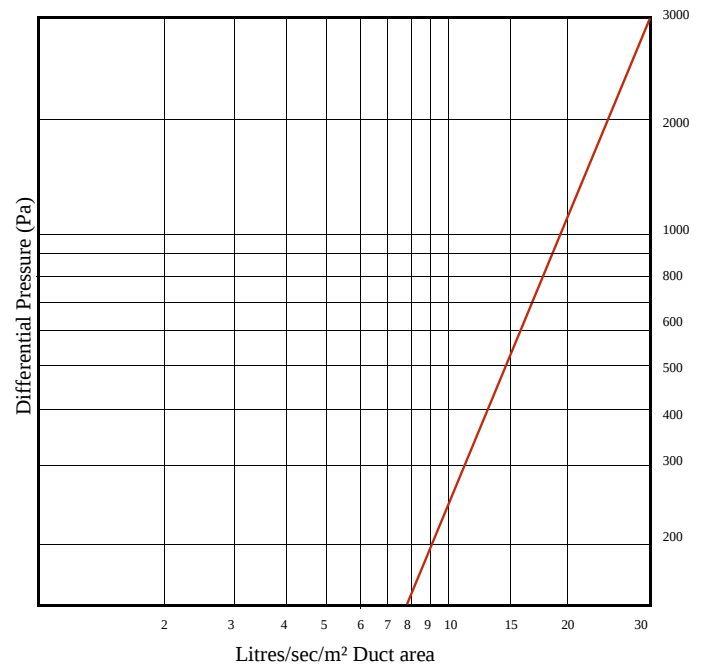
MAXIMUM OPERATING PRESSURE = 1000 Pa. MAXIMUM VELOCITY = 15 M/S

PRESSURE DROP



LOW LEAK DAMPER LEAKAGE

This graph shows the loss of air through the damper blades at various pressure differentials for a fully sealed damper



MULTIPLE ASSEMBLIES

LARGE FORMAT DAMPERS up to 1400 mm high x 2400 mm wide may be supplied as a single assembly with one operator per assembly. (This can be varied depending upon circumstances)



ORDERING CODES

1. Model types

D750- Fully Sealed
D751- Semi sealed/Intermediate
D752- Balancing (no seals)

2. Blade action

A- Parallel
B- Opposed

3. Materials

GFB- Galv steel Casing & Blades
GF04B- Galv steel Casing & 304 St/Stl Blades
GF16B- Galv steel Casing & 316 St/Stl Blades
GFAB- Galv Casing & Aluminium Blades
FB04- 304 St/Stl Casing & Blades
FB16- 316 St/Stl Casing & Blades

4. Dimensions, Airway (W x H) in mm

D752 / B / GFB / 600 mm x 600 mm

The above example is: Balancing Damper, Opposed blade, Galv Steel Casing & Blades, 600 mm W x 600 mm H Airway.