

Light Fire Damper (LFD)

Achieve low cost without compromising on performance with the Wozair Light Fire Damper - USCG/MED mark can be supplied.







Light Fire Damper

Wozair manufacture LFD fire dampers for installation in light gauge ductwork in aggressive coastal, marine and offshore environments where integrity, strength and corrosion resistance are important considerations.

Designed and type approved for installation in ventilation ducts which penetrate a steel division to maintain integrity of that division rated A-0 to A-60; bulkhead or deck. The damper can be provided in accordance with the Marine Equipment Directive.

Manufactured using modern CNC laser cutting and folding processes, with metal to metal blade tip and blade edge sealing arrangements to achieve blade leakage in without the aid of gasket materials.

The standard casing thickness is 16G, with 14G and 11G options, using a riveted and welded construction. Dampers with multiple blades are configured for parallel blade motion with linkage external to the damper casing.

Technical Information

Minimum Size 4"W x 4"H x 6"/8"D

Maximum Size 39"W x 39"H x 6"/8"D (A-0 / A-60)

Fire Rating

IMO FTP Code Part 3 and IMO 2010 FTP Code Part 3 for A-0 to A-60 bulkhead and deck divisions

Leakage

Closed blade leakage to Class 2 EN1751

Explosive Atmosphere

ATEX/IECEx SGS Baseefa/SGS Fimko Oy

Materials of Construction

Casing and Flanges:

Materials Galvanised Sheet Steel (GSS) Stainless Steel 304L/316L (1.4307/1.4404) Other Stainless Steel grades available on request

Thickness

16G, 14G Welded and riveted Flange drilling detail to ISO 15138 standard Custom flanges as option

Blades:

Materials

Stainless Steel 304L/316L (1.4307/1.4404) Galvanised Sheet Steel (GSS)

Thickness

Minimum 16G single skin Riveted to tubular shafts

Bearings:

Oil impregnated sintered bronze

Shafts:

Ø19 mm (3/4") continuous tubular shaft in Stainless Steel 316/316L (1.4401/1.4404)

Side Seals:

Stainless Steel 316L (1.4404)

Linkage:

Stainless Steel 316L (1.4404) 11G thick link bars arranged to provide parallel blade motion

Blade Gasket:

N/A; metal to metal forms the seal





Mechanical Options

The following options can be incorporated if required:

- Transitions; various options for fitting into circular ductwork
- Earth bosses

Type Approval Certification

DNV GL, ABS and Bureau Veritas Marine Equipment Directive (MED) 2014/90/EU USCG (Mutual Recognition Agreement with MED).

Control Options

Wozair dampers can be operated with electric or pneumatic actuators. The pneumatic and electric controls will be selected based on your exacting requirements. Dampers can be designed to close or open on loss of power when fitted with an electric or pneumatic actuator. The electric actuator options are Petz, Schischek, Belimo and Johnson Controls and pneumatic actuator by Powertork.

The actuator is selected following your technical needs:

- Electric or pneumatic actuation system
- Requested closing time (1, 2 or 3 seconds closing time or longer)
- Class I, II, III Division 1 BCDEFG T6 and zone 1, 2, 21, 22
- Class I, II, III Division 2 ABCDEFG T6 and zone 2, 22
- ATEX and IECEx Zone 1, 21 (II 2GD) and 2, 22 (II 3GD) or non hazardous area, based on actuator selection
- Design Temperature (from -40°F/-40°C to +104°F/+40°C)
- NEMA / IP rating
- Environment (High corrosion resistance)

Weights

LFD Bare Shaft Damper Weight Matrix 16G Thick Case - 8"D

lb		H (in)									
		4	8	12	16	20	24	28	32	36	39
W (in)	4										
	8										
	12										
	16						37				
	20										
	24										
	28										
	32										
	36										
	39						64				

Additional nominal weights:

Manual handle 7lb

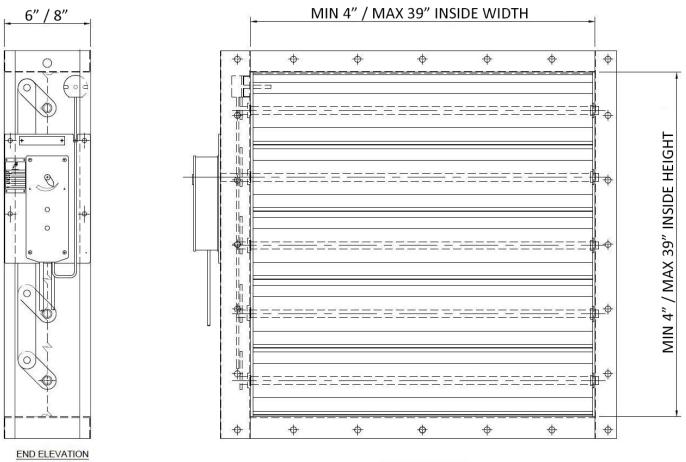
Belimo or Johnson Controls actuator with junction box 7lb Petz or Schischek actuator with junction box 11lb Pneumatic actuator and components with controls enclosure 33lb

Ordering

Type: LFD	Duct Width: 20"						
Duct Height: 12"	Case Depth: 8"						
Type Wozair: Light Duty Fire Damper							
Case Material: Stainless Steel Low Carbon 1.4307 = 304L Low Carbon 1.4404 = 316L							
Mild Steel Sheet Pre-Galvanised FeP02 nac = GSS							
Case Thickness: 16G, 14G, 11G							
Controls Options P = Pneumatic E = Electric							
Nominal: Clear inside duct dimensions Duct Size: 'Quote' (Width x Height)							
Order Code Example: LFD/316L/16G/20W/12H/8D/E							



Dimension Drawing



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