

# Fire & Gas Damper

Model no : FGD, FGD6

High quality engineering meets cost effectiveness with the high integrity BARAMINTEC fire & gas damper, for hydrocarbon divisions preventing fire gas and smoke spread through ventilation systems.



## Fire & Gas Damper

BARAMINTEC manufactures fire dampers for heavy duty, aggressive process environments where integrity, strength and corrosion resistance are of primary importance.

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.

## Technical Information

<b>Maximum Size</b>	1400W x 1400H x 300D mm
<b>Fire Rating</b>	IMO FTP Code Part 3 and IMO 2010 FTP Code Part 3 for A-0 to A-60 bulkhead and deck divisions
<b>Leakage</b>	Closed blade leakage to Class 3 EN1751 Case leakage to Class B EN1751
<b>Type Approval</b>	DNV-GL, Lloyds Register Verification, ABS, Korean Register
<b>MED</b>	Module B(ABS), Module D(Korean Register)
<b>MED MRA</b>	USCG

## Materials of Construction

<b>Casing and Flanges</b>	<b>Materials</b>	Carbon Steel Galvanised steel Stainless Steel 304/316L
	<b>Thickness</b>	Minimum 3.0 mm Thickness's following SOLAS (3.0-5.0 mm) Fully welded Flange drilling detail to ISO 15138 standard. Custom flanges as option
<b>Blades</b>	<b>Materials</b>	Galvanised steel Stainless Steel 304L/316L
	<b>Thickness</b>	Minimum 2 mm double skin Plug welded to solid shafts
	<b>Shafts</b>	Ø19 mm continuous solid shaft in Stainless Steel 304/316L
	<b>Bearings</b>	Oil impregnated sintered bronze. Low temperature - 55°C and low leakage bearing assembly option available
	<b>Side Seals</b>	Stainless Steel 316L 0.25mm
	<b>Linkage</b>	Stainless Steel 304/316L 6.0 mm thick link bars arranged to provide opposed blade motion
<b>Blade Gasket</b>	Fire retardant silicon	

## Mechanical Options

The following options can be incorporated if required.

- Increased flange thickness
- Transitions : various options for fitting into circular ductwork
- Earth bosses

## Control Options

BARAMINTEC dampers can be operated electric or pneumatic actuators. The pneumatic and electric controls will be selected based on your exacting requirements. Dampers can be designed to close, open, or stay put on loss of power when fitted with an electric or pneumatic actuator.

The actuator will be selected following your technical needs :

- Electric or pneumatic actuation system
- Requested closing time (1, 2 or 3 seconds closing time or longer)
- ATEX Zone 1, 21 (II 2GD) and 2, 22 (II 3GD) or non hazardous area, IECEX
- Design Temperature (from -60°C to + 70°C)
- IP level