

## BAAS<sup>®</sup> Fire damper

Fire and Gas Dampers are designed for prevention of spreading fire, smoke or gas through ducts penetrating fire rated walls.

BAAS<sup>®</sup> Fire & Gas Dampers are known among offshore industries as a reliable product with high quality and function. The dampers have been successfully tested at SINTEF and approved by Det Norske Veritas (DNV-GL), up to H-120 fire rating, and are in accordance with NORSOK requirements.

**Application:** A damper designed for prevention of spreading fire, smoke or gas through ducts penetrating fire rated walls.

**Models:** PFD = Pneumatic fire damper  
EFD = Electrical fire damper

PFGD = Pneumatic fire and gas damper  
EFGD = Electrical fire and gas damper

**Certificates:** DNV-GL TAF000004N  
DNV-GL TAF000004R  
DNV-GL 76821-2010-CE-NOR  
RISE MED-B/MED-D

BAAS<sup>®</sup> Fire Dampers are normally operated with pneumatic or electrical spring return/fail-safe actuator. On fire dampers, trigger may be used as a safety mechanism. When the temperature-melting nut breaks, due to high temperatures, the damper will close.

On pneumatic fire and gas dampers, the actuator may be operated through a solenoid valve. If the solenoid valve loses its power, the pressure will be drained through an exhaust valve connected to the actuator, and the damper will close.

Limit switches are used for detecting open/closed position. A magnet or metal plate runs similar with the actuator-nob for safe detecting of the damper position.

BAAS<sup>®</sup> Fire Dampers can be delivered in various sizes and designed for customers specifications. Fire dampers that exceeds 1300mm width or height will be divided by center mullions.

**Sizes:** Max. size without center mullion: W 1300 x H 1300 mm  
Max. size circular damper: Ø 400 mm  
Fire dampers > Ø 400 mm, will be manufactured as a rectangular damper with adapter to circular duct.



*Rectangular Pneumatic Fire and Gas Damper  
with center mullion(s).*

## SPECIFICATIONS

Date: 05.09.2017

Rev: 02

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<b>Insulation:</b>	A0 = 0 mm A60-H0 = 50 mm H60-H120 = 100 mm	<b>Options:</b>	<ul style="list-style-type: none"><li>• Manual opening device</li><li>• Earthing boss</li><li>• Solenoid valve(s)</li><li>• Limit switch(es)</li><li>• Hand valve(s) for manual release</li><li>• Tubing and fittings in various materials</li><li>• AISI 316 junction box</li><li>• Quick connector for blackstart</li><li>• Quick exhaust valve in AISI 316</li></ul>
<b>Casing:</b>	4 mm stainless steel (AISI 316L) welded construction. 3 mm for circular dampers.		
<b>Side seals:</b>	0,3 mm cold rolled stainless steel (AISI 301) strips to prevent leakage.		
<b>Blades:</b>	4 mm stainless steel, (AISI 316L), formed with a longitudinal v-section to provide extra strength. The blades are welded to the shafts.		
<b>Shafts:</b>	Ø 20 mm stainless steel (AISI 316L) welded to the blades.		
<b>Linkages:</b>	Parallel action to linkage, all blades coupled together. Stainless steel (AISI 316L) size 8x30/6x30 mm. Washers and split pins hold the pivots in position.		
<b>Bearings:</b>	Ø 20 mm stainless steel (AISI 316L) welded to the casing.		
<b>Closing time:</b>	1-3 seconds depending on type of actuator.		

For special requests please contact BAAS Component AS.

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