

BAAS[®] Shut-off damper

Shut-off dampers are designed to ensure minimum leakage through ductwork by automatic closing if loss of compressed air or during power failure. Automatic shut-off dampers are normally operated by pneumatic fail safe actuators, where the damper status is either fully open or fully closed.

Application: Fan shut-off in run/standby situation.
Fan start-up against closed dampers.
Duct system isolation on gas detection.
Rerouting air during certain platform conditions.

Models: PSD = Pneumatic shut-off damper
ESD = Electrical shut-off damper

BAAS[®] Shut-off Dampers are normally operated with pneumatic or electrical spring return/fail-safe actuator. On pneumatic shut-off dampers the actuator may be operated through a solenoid valve. If the solenoid valve loose 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[®] Shut-off Dampers can be delivered in various sizes and designed for customers specifications. Shut-off dampers that exceeds 1300 mm width or height, will be divided by center mullions.

Sizes: Max. size without center mullion: W 1300 x H 1300 mm
Max. size circular shut-off dampers: Ø 400 mm
Shut-off dampers > Ø 400 mm, will be manufactured as an oval damper.



*Rectangular Pneumatic Shut-off Damper
with center mullion(s).*

SPECIFICATIONS

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Casing:	3mm stainless steel (AISI 316L) welded construction.
Side seals:	0,3 mm cold rolled stainless steel (AISI 301) strips to prevent leakage.
Blades:	4mm stainless steel (AISI 316L), formed with a longitudinal v-section to provide extra strength. The blades are welded to the shafts.
Shafts:	Ø 20mm stainless steel (AISI 316L) welded to the blades.
Linkages:	Parallel action to linkage, all blades coupled together. Stainless steel (AISI 316L) size 8x30/6x30mm. Washers and split pins hold the pivots in position.
Bearings:	Ø 20mm stainless steel (AISI 316L) welded to the casing.
Closing time:	1-3 seconds depending on type of actuator.

Options:	<ul style="list-style-type: none">• Manual opening device• Earthing boss• Solenoid valve(s)• Limit switch(es)• Hand valve(s) for manual release• Tubing and fittings in various materials• AISI 316 junction box• Quick connector for blackstart• Quick exhaust valve in AISI 316
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For special requests please contact BAAS Component AS.

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