Is your site at risk?

Diesel engines are a recognized source of ignition; reduce this risk with AMOT safety products.

Macondo – Deepwater Horizon Blowout, April 20, 2010
Texas City Refinery Explosion, March 23, 2005
Thailand Oil Refinery Explosion, December 2, 1999

Diesel Engine Safety Solutions
Overview
AMOT offers a broad range of diesel engine safety solutions, including AMOT, Chalwyn and Roda Deaco air intake shutoff valves that provide emergency overspeed shutdown of a diesel engine. AMOT has the solution to meet the specific requirements of each customer.

- Automatic self-contained valves
- Complete shutdown systems
- Custom engineered valves and systems

**Complete Solutions**

Hydrocarbon Release and Diesel Engine Runaway

A release of flammable gas or hydrocarbon vapor can occur at any time, and be drawn into the engine’s air intake. Turning off the ignition will not shut off the diesel engine because it is running on the external fuel source.

The diesel engine will continue to accelerate rapidly and runaway. This overspeed will lead to dangerous mechanical failure or flashback explosion of the leaking hydrocarbons.

Several major accidents have been linked to diesel engine runaway being the source of ignition, usually with fatal and catastrophic consequences.

The most effective way of shutting down a runaway diesel engine is with an automatic air intake shutoff valve system that senses the engine’s speed. This system rapidly blocks the engine intake, cutting off both the external fuel source and the air required to keep the engine running.

The engine is safely stopped before it creates a source of ignition or an explosion.

**Automatic Shutdown System**

![Diagram of the automatic shutdown system](image)
Selecting the right Air Intake Shutoff Valve

Selecting the right air intake shutoff valve requires specific information about the application and engine:

- Application Type
- Environment - Inland / Offshore
- Actuation Method
- Engine Specifications

**Butterfly Valves**
- Compact, light weight design
- Fast acting closure
- Anodized aluminum & construction

**Swing Gate Valves**
- Compact swing gate design
- Fast acting positive spring closure
- Wide variety of inlet pipe connections
- High temperature options

**Hazardous Area ATEX Certified Valves**
- ATEX Zone 1 IIB T4 applications
- Compact, lightweight butterfly design
- Fail-safe energize to open option
- Energize to close actuation option

**Automatic Self-contained Valves**
- Simple, cost effective design
- No power input or speed signal required
- Automatic reset after engine stops
- Easy to install

**Flameproof Alternators / Exhaust Spark Arrestors / Silencers**
- Prevent ignition of combustible materials
- Easy to install
- Variety of sizes for different applications
Custom Engineered Valves
Design and manufacture shutoff valves to meet specific engine and application requirements

Accessories
Installation Kits
Speed Switch & Magnetic Pick up
Actuation Kits

Contact us for more information

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