

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





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.

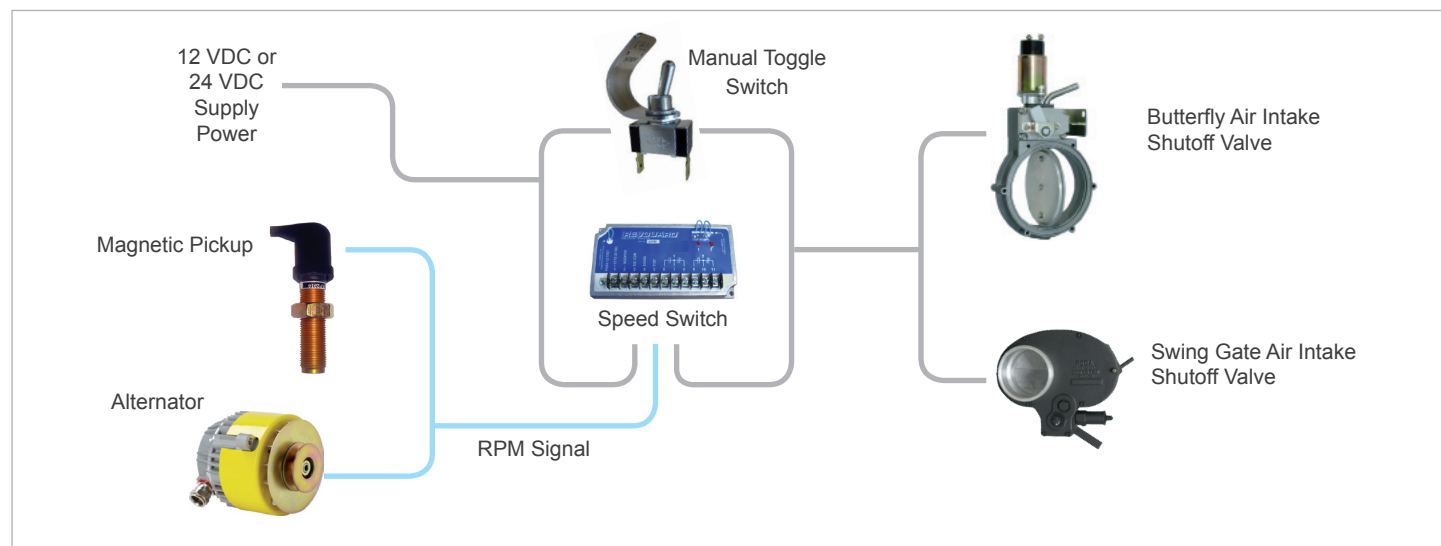
The engine is safely stopped before it creates a source of ignition or an explosion.

Complete Solutions

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

Automatic Shutdown System



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



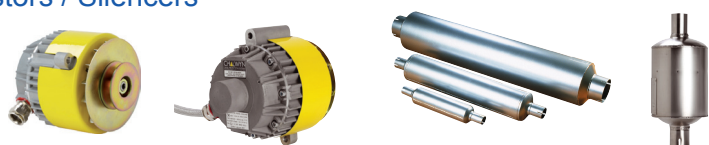
Automatic Self-contained Valves

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

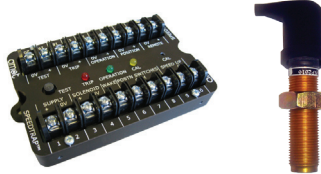


Accessories

Installation Kits



Speed Switch & Magnetic Pick up



Actuation Kits



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