Could a flammable vapor or gas ignite on your site today?

Diesel engines are a recognized source of ignition
Reduce this risk with AMOT safety products
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 Automatic Shutdown System]

- 12 VDC or 24 VDC Supply Power
- Magnetic Pickup or Alternator
- RPM Signal
- Speed Switch
- Manual Toggle Switch
- Butterfly Air Intake Shutoff Valve or Swing Gate Air Intake Shutoff Valve
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 & stainless steel 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 and
Energize to close actuation options

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

Custom Engineered Valves
Design and manufacture shutoff valves to meet specific engine and application requirements
Contact us for more information

**Americas**

AMOT Americas  
8824 Fallbrook Dr.  
Houston, TX 77064  
Tel: +1 (281) 940 1800  
info@amotusa.com

AMOT Canada  
3230 - 97 Street  
Edmonton, Alberta  
Canada T6N 1K4  
Tel: +1 (780) 465 4429  
info@rodadeaco.com

**Asia Pacific**

AMOT Asia Pacific  
RM 4102 - 4104 United Plaza  
1468 Nanjing Road West  
Shanghai 200040 China  
Tel: +86 (0) 21 6279 7700  
shanghai@amot.com

AMOT SE Asia  
10 Eunos Road 8 #12-06  
Singapore Post Centre  
Singapore 408600  
Tel: +65 (0) 6408 6265  
singapore@amot.com

**Europe, Middle East & Africa**

AMOT UK  
Western Way  
Bury St Edmunds  
Suffolk IP 33 3SZ England  
Tel: +44 (0) 1284 762222  
sales@chalwyn.com

AMOT Germany  
Rondenburg 25  
22525 Hamburg  
Germany  
Tel: +49 (40) 8537 1298  
germany@amot.com