Overview

Diesel runaway is a constant problem, injuring personnel and causing severe damage to equipment every year. A diesel engine will runaway and self destruct on hydrocarbon vapors, even if the engine's primary source of fuel is taken away. An air intake shut-off valve is a must for diesel engines which have even a possibility of encountering hydrocarbon vapors.

Model 4262C Air Intake Shut-off Valve is manually opened prior to starting the engine. To stop the engine in an emergency or in the event of engine runaway (overspeed), it can be actuated pneumatically, hydraulically or electrically and a manual option is available.

Key features and benefits

- Fast acting, solenoid operation
- Compact design for easy installation
- Corrosion resistant (anodized aluminum and stainless steel construction)

Typical applications

Runaway/overspeed shutdown of small diesel engines powering the following, but not limited to, equipment:

Aerial platforms, Air compressors, Aircraft refuelling, Cranes, Diesel mowers, Diggers, Fork lift trucks, Fuel tankers, Generator sets, Hydraulic power packs, Jetting pumps, Light towers, Marine engines, Mining machinery, Mud pumps, Seismic testing trucks, Vacuum trucks, Vehicles, Water pumps, Welding sets, Wire line units

amot
# Air Intake Shut-off Valve

## Model 4262C

### Specifications

| **Standard materials** | **Valve body and disc** | Hard anodized aluminum  
| **Valve shafts** | Stainless steel  
| **Seals** | Viton  
| **Safety control operator** | Anodized aluminum  
| **Pneumatic cylinders** | Aluminum and stainless steel  
| **Brackets** | Stainless steel  
| **Maximum intake air temperature** | Viton | 125°C | 257°F  
| **Valve size** | **Valve Size** | **OD** | **BORE**  
| **4”** | 10.1 cm | 4.0 in | 9.4 cm | 3.7 in  
| **6”** | 15.2 cm | 6.0 in | 14.2 cm | 5.6 in  
| **Net weight** | **Valve Size** | **Valve Size** | **Net weight** | **Net weight**  
| **(including operator)** | **Valve Size** | **Valve Size** | **Net weight** | **Net weight**  
| **4”** | 1.81 kg | 4.0 lbs  
| **6”** | 3.4 kg | 7.5 lbs  
| **Pneumatic cylinder** | Minimum actuation pressure | 207 kPa | 30 psi  
| **Maximum working pressure** | 1380 kPa | 200 psi  
| **Pressure connection** | 1/8” NPT  
| **Manual operator** | Mechanical pull to release | 67 N | 15 lbs  
| **Electric solenoid operators** | 12VDC & 24 VDC | 107 W  
| (intermittent duty) | Maximum coil temperature | 175°C | 350°F  
| Rated for intermittent duty; 1 minute on, 9 minutes off |  
| **Safety control operator** | Adjustable tripping pressure | 34 - 275 kPa | 5 - 40 psi falling  
| **Maximum pressure on diaphragm** | 1172 kPa | 170 psi  
| **Pressure connection** | 1/4” NPT  

www.dieselsafety.com
Air Intake Shut-off Valve
Model 4262C

Dimensions (Reference Table 1)

Table 1

<table>
<thead>
<tr>
<th>Actuation Type</th>
<th>Size (in)</th>
<th>C (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
<th>W (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid 4</td>
<td>104 4.1</td>
<td>229</td>
<td>9 109</td>
<td>4.3</td>
<td>234</td>
</tr>
<tr>
<td>Solenoid 6</td>
<td>108 4.2</td>
<td>273</td>
<td>10.7</td>
<td>114 4.5</td>
<td>259</td>
</tr>
</tbody>
</table>

Note: Contact factory for more detailed dimensions or other actuation configurations.

How to Order

<table>
<thead>
<tr>
<th>AA Valve Size</th>
<th>B Valve Material</th>
<th>C Actuator Option</th>
<th>DD Actuation Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>04 4”</td>
<td>Aluminum/Viton O-ring</td>
<td>0 Standard actuator</td>
<td>21 Pneumatic Cylinder: Pressurize to run, spring return to close, NPT threads</td>
</tr>
<tr>
<td>06 6”</td>
<td></td>
<td></td>
<td>23 Manual/Pneumatic Cylinder: Manually cocked to run, pressurize or manual trip to shut down, NPT thread</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>25 Pneumatic Cylinder: Pressurize to close, spring return to open</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>41 Safety Control, NPT thread</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>71* Electric Solenoid: 12 VDC, manually cocked to run, energize to shut down</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>72* Electric Solenoid: 24 VDC, manually cocked to run, energize to shut down</td>
</tr>
</tbody>
</table>

*Electric solenoid should be installed in horizontal orientation.

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Accessories

A range of accessories including Speed Switches, Installation Kits, Activation Kits and Wiring Harness Kits can be purchased with your 4262C valve. See System Selection Guide (DS-System-Selection-Guide-07-12)