

Intake Air Shut-off Valve

Model 4261D

Overview

Diesel run-away 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 intake air shut-off valve is a must for diesel engines which have even a possibility of encountering hydrocarbon vapors. The 4261D Intake Air Shut-off Valves from AMOT use the best available technology to shut down a runaway diesel by closing off engine intake air.

Key features and benefits

- Corrosion resistant, anodized aluminum and stainless steel construction
- Best available technology - "Butterfly Valve" design
- Use "Stand alone" or in complete runaway shut down system
- Remote reset capability
- Manual, pneumatic, electric or hydro mechanical actuation
- Easily installed, saves money
- Most compact design available



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Typical Applications

Diesel Engines, Offshore Production Engines, Drilling Industry, Fire Trucks, Hazardous Materials Vehicles, Ambulances, Marine Engines, Bulk Fuel Haulers (Tankers), Power generation (Gen Sets), Well Service Vehicles, Mining Equipment, Locomotives, Aircraft Mobile Support Equipment, Fuel Transfer Pumps, Fire Pumps and any other diesel engine application in the well servicing, refinery, or mining industry where hydrocarbon release is a risk.



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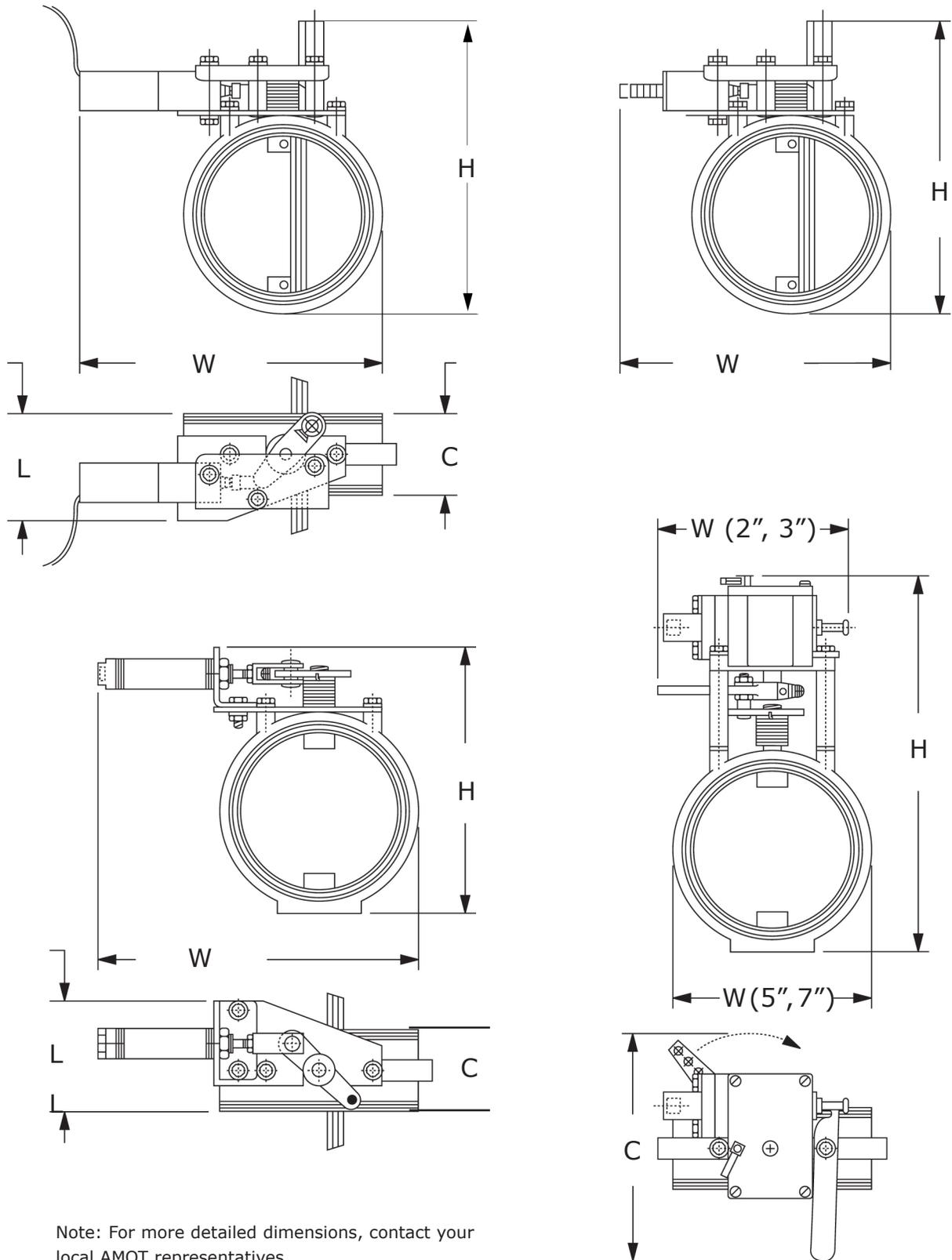
Specifications

Standard materials	Valve body and disc	Hard anodized aluminum	
	Valve shafts	Steel	
	Seals	Viton	
	Safety control operator	Anodized aluminum	
	Pneumatic cylinders	Aluminum & stainless steel	
	Brackets	Plated steel	
Maximum intake air temperature	Viton seals	125°C	257°F
Valve size	<i>Valve Size</i>	<i>OD</i>	<i>BORE</i>
	2.8"	7.1 cm 2.8 in	5.6 cm 2.2 in
	3.5"	8.9 cm 3.5 in	7.1 cm 2.8 in
	5.5"	14.0 cm 5.5 in	12.2 cm 4.8 in
	7.0"	17.8 cm 7.0 in	15.7 cm 6.2 in
Net weight (inc. operator)	2.8" valve size	1.4 - 1.8 kg	3.1 - 4.0 lbs
	3.5" valve size	1.4 - 1.8 kg	3.1 - 4.0 lbs
	5.5" valve size	1.8 - 2.2 kg	4.0 - 4.9 lbs
	7.0" valve size	2.3 - 2.7 kg	5.0 - 5.9 lbs
Pneumatic cylinder	Minimum actuation pressure	207 kPa	30 psi
	Maximum working pressure	1380 kPa	200 psi
Pneumatic and Manual operator	Manual actuation (pull to release)	67 N 15 lbs	
Electric solenoid operators (intermittent duty)	12VDC & 24 VDC	107 W	
	Maximum coil temperature	175°C	350°F
Safety control operator	Adjustable tripping pressure	34 - 275 kPa	5 - 40 psi falling
	Maximum pressure on diaphragm	1172 kPa	170 psi

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Dimensions (Reference Table 1 on page 4)



Note: For more detailed dimensions, contact your local AMOT representatives.

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Table 1

Actuation Type	Size (in)	Dimensions							
		C		H		L		W	
		mm	in	mm	in	mm	in	mm	in
Solenoid	2	48	1.88	165	6.5	81	3.19	207	8.15
	3	51	2	185	7.28	83	3.27	217	8.54
	5	64	2.51	236	9.29	89	3.5	243	9.56
	7	64	2.51	271	10.66	89	3.5	262	10.31
Manual / Pneumatic	2	NA	NA	165	6.5	NA	NA	179	7.05
	3			185	7.28			183	7.2
	5			236	9.29			208	8.19
	7			275	10.66			227	8.94
Pneumatic Cylinder	2	48	1.88	134	5.28	71	2.8	268	10.55
	3	51	2	156	6.14	83	3.27	305	12
	5	64	2.51	206	8.11	89	3.5	337	13.27
	7	64	2.51	254	10	89	3.5	356	14
Safety Control	2	200	7.87	219	8.62	NA	NA	148	5.83
	3	200	7.87	241	9.49			148	5.83
	5	200	7.87	292	11.5			162	6.38
	7	200	7.87	330	13			197	7.75

How to order

MODEL **4261D** **AA** **B** **C** **DD**

AA	Valve Size*		B	Construction Material	C	Actuator Option	DD	Actuation Type
	mm	in	A	Aluminum / Viton O-ring / Standard Spring	0	Standard (actuator only) / Standard orientation (reset lever on outlet side)	21	Pneumatic cylinder, pressurized to run, spring return to close, NPT threads
02	71.1	2.8					D	Aluminum / Viton O-ring / Lighter Spring (only for 2.8")
03	88.9	3.5	25	Pneumatic cylinder, pressurize to close, spring return to open				
05	139.7	5.5	41	Safety control, NPT thread				
07	177.8	7.0	71**	Electric solenoid, 12 VDC, manually cocked to run, energize to shut down				
							72**	Electric solenoid, 24 VDC, manually cocked to run, energize to shut down

* For 4" and 6" valves, see Model 4262C datasheet.

**Contact factory before using in mobile applications.

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