

Heavy Duty Air Intake Shut-off Valve

Model 7002

Overview

Hydraulic fracturing technology requires the use of heavy duty high horse power diesel engines. Hydrocarbon release in an area where a diesel engine is operating can lead to diesel engine runaway which can be a highly dangerous situation. Once an engine begins to run on the external fuel source, turning off the ignition will have no effect. The engine will continue to run and overspeed leading to mechanical failure or explosion. The newly released 7002 series air intake shut-off valve was designed for the wear and tear of the frac industry. The valve will effectively shut down a runaway diesel engine by closing off the engine intake air.



Features and Benefits

- Corrosion resistant, anodized aluminum and stainless steel construction
- Rated for continuous working temperature from -40°C to +280°C
- Designed for post-turbo temperatures
- IP67 rated solenoid /actuator
- Designed for high vibration environments
- Male/female marmon flange connections (can be coupled directly to Cummins QSK50 engine intakes)
- Position switch integrated into actuator housing
- Switch is not exposed to charge air temperature/debris

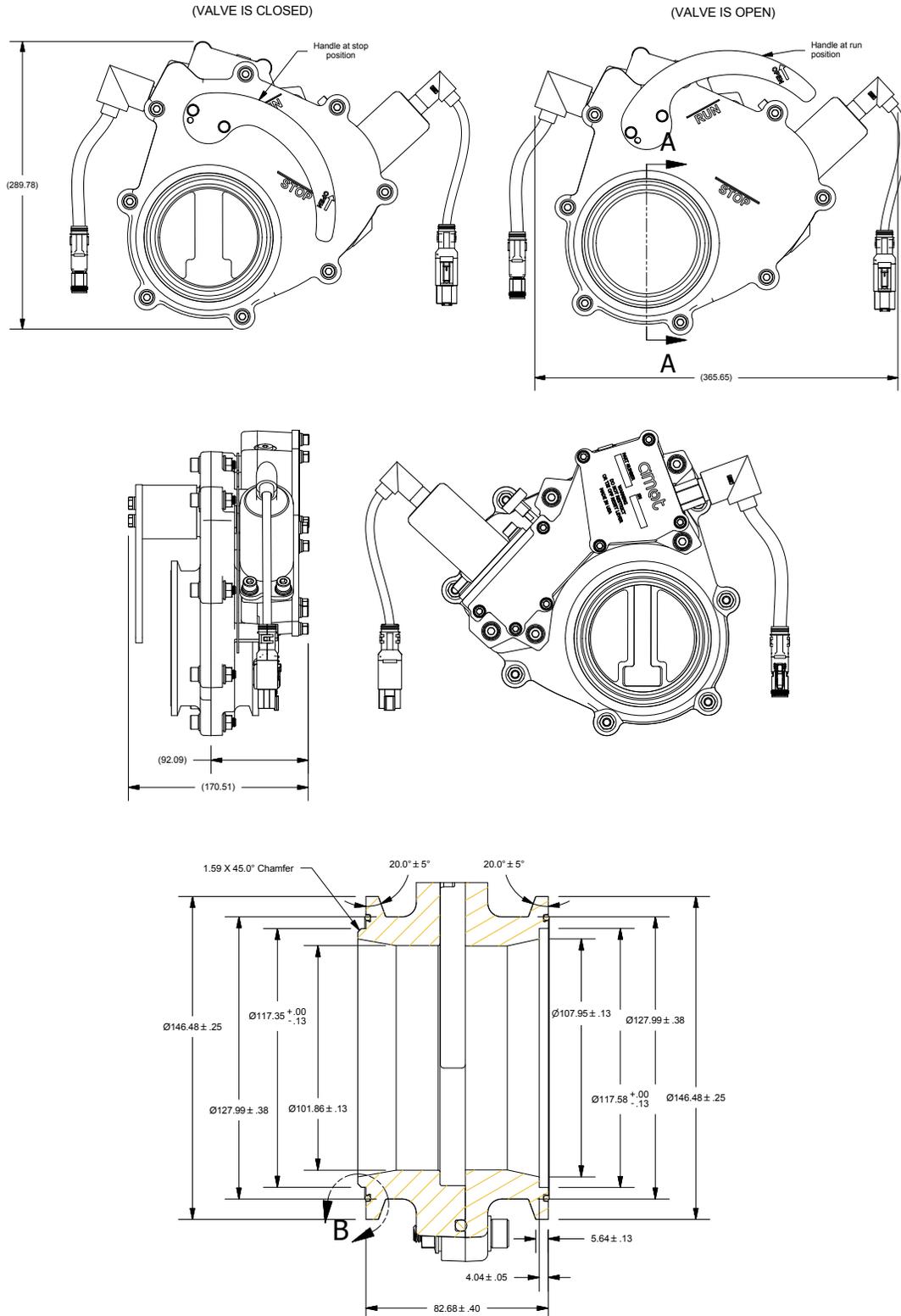
Applications

- Heavy duty high horse power frac diesel engines
- Offshore production engines
- Drilling industry
- Hazardous material vehicles
- Marine engines
- Power generation (gen sets)
- Well service vehicles
- Mining equipment
- Locomotives

Heavy Duty Air Intake Shut-off Valve

Model 7002

Dimensions



Heavy Duty Air Intake Shut-off Valve

Model 7002

Specifications

Standard materials	Valve body	Hard anodized aluminum
	Gate	Brass
	Seals	Viton/Silicone
	Safety control operator	Anodized aluminum
Maximum intake air temperature	-40°C to 280°C	-40°F to 535°F
Valve Size	4" valve size	102 mm
Net weight	10 kg (21 lbs)	
Max Charge Air Pressure	5 bar	
Solenoid	Voltage	19.2 - 28.8 Volts DC
	Max current draw	38.9 A @ 28.8 VDC & -40°C
	Inductance	3.5mH +40°C
	Duty Cycle @ 125°C	1.3%, Max 1.0s ON Min 75s OFF
Switch	5 Amp resistive load max >0.25W	

How to order

Use the tables below to select the unique specification of your Model 7002 Intake Air Shut-off Valve:

Example: **7002** **A** **BB** **C** - **DDD**

A	Valve Size	BB	Valve Operator	C	Switch Options	DDD	Connection Options
4	4 inch, standard	72	Electric Solenoid, 24VDC	A	Valve Open = Switch Closed	RZX	Deutsch Solenoid Connector (DT04-4P), Deustch Switch Connector with integral 33 kΩ Shunt (DT06-2S)
				B	Valve Open = Switch Open	RZO	Deutsch Solenoid Connector (DT04-4P), PIN Style Plug in 15-4 Layout Switch Connector (38999)
						HAC	Weatherpack Solenoid Connector (12015792), Deustch Switch Connector (DT06-2S)

Note: AMOT does not qualify the valve for specific applications. Consult the engine and valve specifications.

Heavy Duty Air Intake Shut-off Valve

Model 7002

Americas

AMOT - USA
Tel +1 (281) 940 1800
Fax +1 (713) 559 9419
sales@amot.com

Roda Deaco - Canada
Tel +1 (780) 465 4429
Fax +1 (780) 469 6275
info@rodadeaco.com

Asia Pacific

AMOT - China
Tel +86 21 6279 7700
Fax +86 21 5237 8560
shanghai@amot.com

AMOT - Singapore
Tel +65 6408 6265
Fax +65 6293 3307
singapore@amot.com

Europe, Middle East and Africa

AMOT - England
Tel +44 (0) 1284 762222
Fax +44 (0) 1284 760256
info@amot.com

AMOT - Germany
Tel +49 (0) 40 8537 1298
Fax +49 (0) 40 8537 1331
germany@amot.com

www.dieselsafety.com

