Model 7002

Overview

Hydraulic fracturing technology requires the use of heavy-duty, high-horsepower 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 AMOT 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

- Rated for continuous working temperature from -40°C to +280°C
- IP67 rated solenoid/actuator is enclosed for reliable performance
- Designed for high-vibration environments
- Anodized aluminum and stainless steel construction resists corrosion
- Designed for post-turbo temperatures
- 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

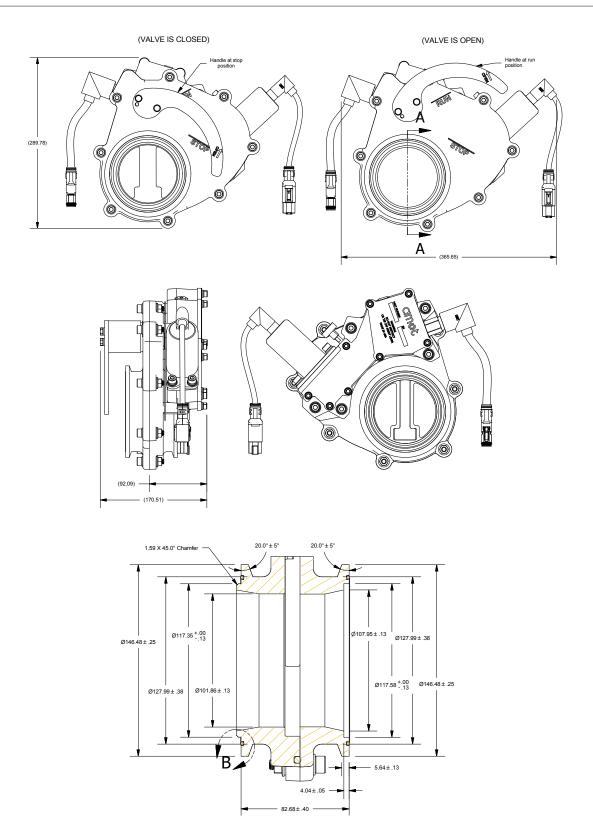
Cummins QSK50 (Tier 2 and 4) high horsepower engines used in the following applications:

- Hydraulic fracturing units
- Electric power generators
- Offshore production engines
- Drilling industry
- Marine engines
- Power generation (gen sets)
- Mining equipment
- Locomotives



Model 7002

Dimensions



Model 7002

Specifications

Standard materials	Valve body & actuator housing	Hard anodized aluminum
	Gate	Brass
	Seals	Viton/Silicone
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	72 psi
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	

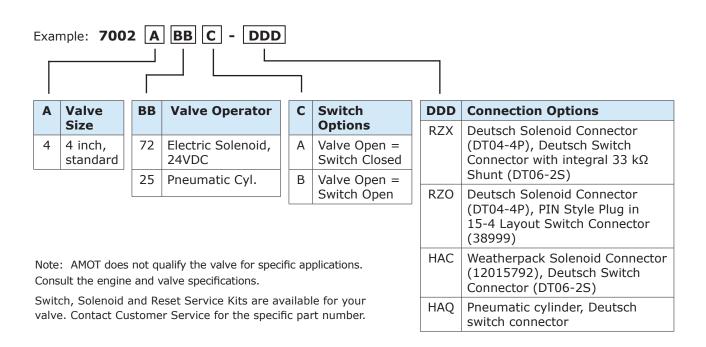
Service Kits & Accessories

Part Number	Description	
RKS-7001-09	Manual activation handle kit	
RKS-7002-03	24V Solenoid kit, Weatherpack	
RKS-7002-01	Valve open-switch open switch kit, Deutsch	
RKS-7002-04	Valve open-switch closed switch kit, Deutsch	
RKS-7002-05	Pneumatic cylinder kit	
22092L	Flange o-ring	
1641-019	Timer relay, 24 VDC	

Model 7002

How to order

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



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