

Overview

The new AMOT XTB is the most advanced butterfly-style positive air shut off valve on the market today. Engineered with the latest technology and loaded with enhanced features, this valve shuts down a runaway diesel by positively choking off engine intake air. The valve operates as part of a fully-automatic overspeed shutdown system when paired with our Revguard 2 speed switch and activation kit.

The XTB currently offers 12V or 24V electric actuation of the solenoid to rapidly close the valve's butterfly disc which shuts off intake air flow into the engine. The XTB range is available in two sizes and optional custom flanges.

It is manufactured from corrosion resistant, RoHS compliant materials that offer toughness under extreme temperatures and resistance to corrosive environments.

The butterfly valve most trusted by engine manufacturers



Base XTB Valve

New Enhanced Features

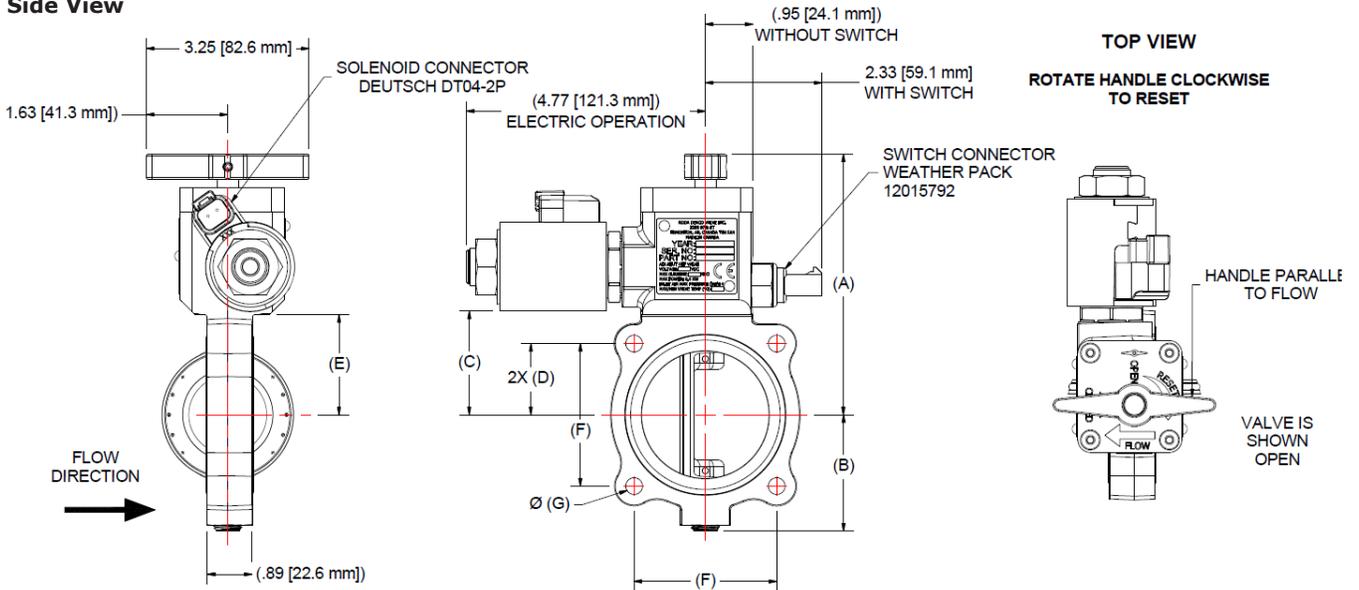
- Optional bolt-on flanges (contact factory)
- Temperature range of -40°C to 125°C
- Tested to rigorous engine OEM standards for:
 - resistance to shock
 - corrosion
 - vibration
 - life cycle
 - ingress Protection ratings IP69k and 1P67
- Optional integrated valve position switch
- Field-serviceable components limit downtime



XTB Valve with Example Custom Flanges

Dimensions

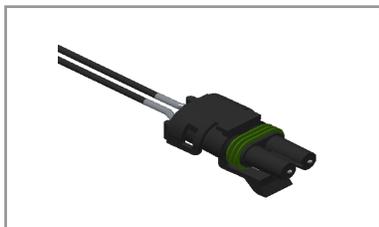
Side View



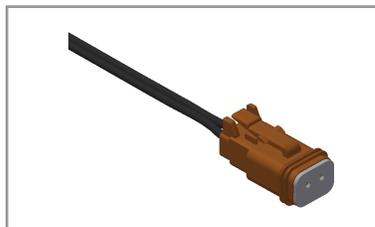
VALVE DIMENSIONS								
OD (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	Weight (lb)
3.0	5.21	2.33	3.80	1.43	2.00	2.85	0.33	3.8
4.0	5.71	2.83	4.80	1.77	2.50	3.53	0.33	4.1

Mating Solenoid and Switch Connectors

Included with Valve (comes with 12-inch pigtail)



XT switch connector (RKS-XT-017)



XT solenoid connector (RKS-XT-016)

Specifications

Standard Materials		Valve body/disc	Anodized aluminum
		Seals	Viton
		Solenoid housing	Plated steel
Intake & Ambient Air Temp	Electric	Minimum: -40°C / maximum: 125°C	
Max Charge Air Pressure		5 bar (72 psi); Solenoid coil duty cycle: 60s max on/540s off (11%)	
Electric Solenoid	12 VDC	26.4 Amps (max) @ 13.2 VDC / -40°C	
		19.8 Amps (max) @ 13.2 VDC / 25°C	
	24 VDC	13.2 Amps (max) @ 26.4 VDC / -40°C	
		9.9 Amps (max) @ 26.4 VDC / 25°C	
Switch Rating		4.4 Amps DC max	

Product Code Definitions

Example	XTB	3	0	B	2	A	3.0" OD, 24V, low temp, no switch
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Basic model code	XTB							
							mm OD	inches OD
Valve flange size		3	0				76	3.0
		4	0				102	4.0
Actuator				A			Electric power to close - 12 VDC	
				B			Electric power to close - 24 VDC	
Temperature				2			Low temp (-40°C to +125°C)	
Switch type				A			No switch	
				B			Valve open = switch open (100°C max)	
				C			Valve open = switch closed (100°C max)	

Optional Hose Adapter Kit Selection

The XTB is a modular design. If hose adaptors are required for connection to your intake, a hose adaptor kit will be required. The CKS kits shown below each contain two hose adaptors. The hose adaptors can be added by AMOT at the factory or can be shipped with the product to be added later. Custom kits are available for differing installations.

Example	CKS-XTB-A	3	250
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Basic model code	CKS-XTB-A			
Valve size		3		3.0"
		4		4.0"
Hose adapter size (for 3" valves)		250		3" to 2.5"
		275		3" to 2.75"
		300		3" to 3"
		325		3" to 3.25"
		350		3" to 3.5"
Hose adapter size (for 4" valves)		350		4" to 3.5"
		375		4" to 3.75"
		400		4" to 4"
		425		4" to 4.25"
		450		4" to 4.5"



XTB Valve without hose adapters



Modular bolt-on hose adapter for XTB

Service Schedule

Valve servicing should be conducted according to the maintenance schedule in the table below. However, frequency of part replacement may vary depending on environmental and operational factors. Contact customer service for specific kit ordering information.

Engine Hours on Valve	Switch	Actuation	Replace Valve
10,000	✓	✓	
20,000			✓

Testing Schedule

Regular operation testing should be performed on the valve to ensure it is in proper working order for emergency situations. AMOT recommends testing in weekly intervals.

Service Kits

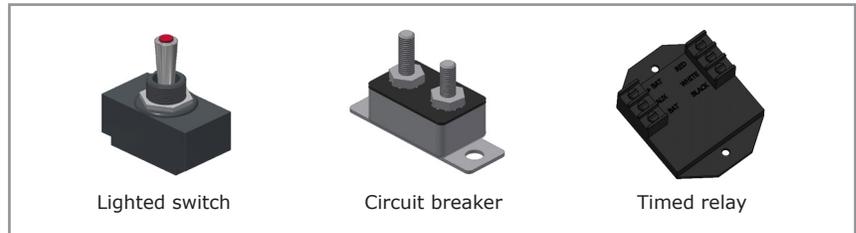
Part No.	Description
RKS-XT-001	12V complete solenoid kit (A Actuator Code)
RKS-XT-002	24V complete solenoid kit (B Actuator Code)
RKS-XT-018	12V solenoid coil kit (A Actuator Code)
RKS-XT-019	24V solenoid coil kit (B Actuator Code)
RKS-XT-006	Switch kit: valve open = switch open (B Switch Code)
RKS-XT-007	Switch kit: valve open = switch closed (C Switch Code)

Accessories for Fully Automatic Systems

Activation Kits	
Part No.	Description
1520-001	Revguard 2 speed switch
AK2-E1-RM	Electric activation for 12V valve
AK2-E2-RM	Electric activation for 24V valve



Revguard speed switch (1520-001)



Activation kit components

WARNING
 These products can expose you to chemicals including carbon black (airborne and extracts), antimony trioxide, titanium dioxide, silica (crystalline), di(2-ethylhexyl)phthalate, ethylene thiourea, acrylonitrile, 1,3-butadiene, epichlorohydrin, toluenediisocyanate, tetrafluoroethylene, ethylbenzene, formaldehyde, furfuryl alcohol, glass fibers, methyl isobutyl ketone, nickel (metallic and compounds), lead and lead compounds which are known to the state of California to cause cancer; and 1,3 butadiene, epichlorohydrin, di(2-ethylhexyl)phthalate, di-isodecyl phthalate, ethylene thiourea, methyl isobutyl ketone, toluene, lead and lead components which are known to the state of California to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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