

Overview

The Chalwyn XT range uses the best available technology to shut 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.

Actuation of the XT solenoid rapidly closes the valve's butterfly disc which shuts off intake air flow into the engine.

The XT range is available in a variety of sizes ranging from 3.5" to 8" diameter to fit your specific applications.

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

Our valves are tested to strict OEM standards for shock, corrosion, vibration and life cycle.

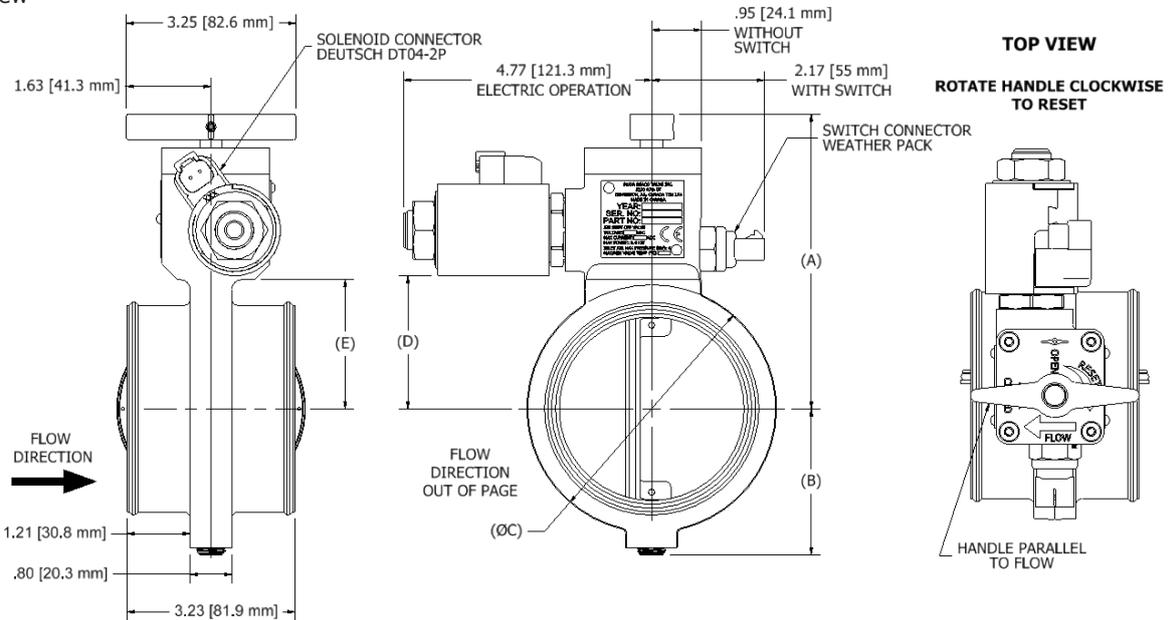


Features and Benefits

- 12V or 24V electric actuation
- Compatible for modern low emission diesel engines
- Compact design
- Easy to install and maintain
- Simple manual reset by turning top handle
- Can be mounted post-intercooler on turbocharged engines
- Corrosion-resistant aluminium alloy construction
- Designed to suit intake pressures up to 4.0 bar
- Suitable for cold operating environments down to -40°C
- Optional position sensing switches with either failsafe or connected when closed configuration
- IP69K rated for resistance to dust and ability to withstand high temperature water jets
- Field-servicable electrical components

Dimensions

Side View



VALVE DIMENSIONS (mm)						
OD	A	B	C	D	E	Weight
89 mm	138.7	65.4	109.2	58.9	57.2	1.8 kg
102 mm	145.0	71.8	121.9	65.3	63.5	1.9 kg
127 mm	157.7	84.5	147.3	78.0	76.2	2.1 kg

VALVE DIMENSIONS (mm)						
OD	A	B	C	D	E	Weight
140 mm	170.4	88.3	160.0	84.3	82.6	2.5 kg
152 mm	176.8	94.6	172.7	90.7	88.9	2.6 kg
178 mm	189.5	107.3	198.1	103.4	101.6	2.8 kg
203 mm	202.2	120.0	223.5	116.1	114.3	3.1 kg

Specifications

Standard materials	Valve/disc	Anodised aluminium
	Seals	Viton/Nitrile
	Solenoid housing	Plated steel
Intake & ambient air temp	Minimum: -40°C / -20°C (based on valve selection) maximum: 125°C	
Max charge air pressure	5.0 bar (72 psi)	
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 maximum	

Product Code Definitions

Example	XT	3	5	B	1	B	3.5" OD, 24V, normal temp, valve open, switch open		
Basic model code	XT								
							mm OD	inches OD	
		3	5				89	3.5	
		4	0				102	4.0	
		5	0				127	5.0	
		5	5				140	5.5	
		6	0				152	6.0	
		7	0				178	7.0	
		8	0				203	8.0	
Actuator				A			Electric power to close - 12 VDC		
				B			Electric power to close - 24 VDC		
Temperature (ambient air)				1			Normal (-20°C to +125°C) not available on 5" and larger		
				2			Low temp (-40°C to +125°C) ≤4" is special order		
Switch type				A			No switch		
				B			Valve open, switch open		
				C			Valve open, switch closed (failsafe)		

Accessories for Automatic Systems

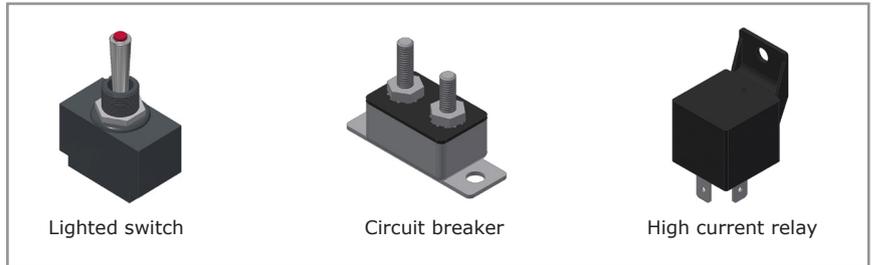
Activation Kits	
Part Number	Description
1520-001	Revguard 2 speed switch
AK2-E1-RM-CH	Activation kit for 12V valve
AK2-E2-RM-CH	Activation kit for 24V valve

Hose and Clamp Kits	
Part Number	Description
IK-3500H-01	Hose and clamps kit for 3.5 in (89 mm)
IK-4000H-01	Hose and clamps kit for 4.0 in (102 mm)
IK-5000H-01	Hose and clamps kit for 5.0 in (127 mm)
IK-5500H-01	Hose and clamps kit for 5.5 in (140 mm)
IK-6000H-01	Hose and clamps kit for 6.0 in (152 mm)
IK-7000H-01	Hose and clamps kit for 7.0 in (178 mm)
IK-8000H-01	Hose and clamps kit for 8.0 in (203 mm)

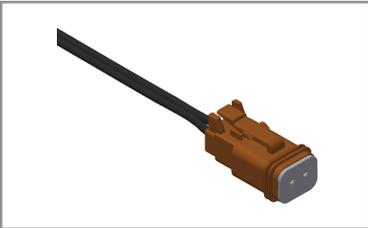
Optional Accessories



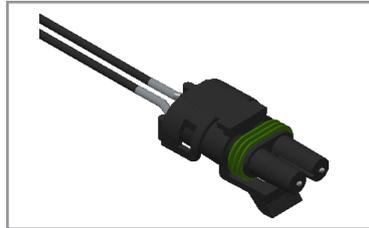
Revguard speed switch (1520-001)



Activation kit components (AK2-E1-RM-CH)



XT solenoid connector (RKS-XT-016)
Fitted with 300 mm wires. One supplied with each XT valve.



XT switch connector (RKS-XT-017)
Fitted with 300 mm wires. One supplied with each switch version.



Hose and clamps kit (IK-3500H-01)

Trusted Industry Experts

We are the leading provider of air intake shutoff valves and systems with manufacturing facilities in Canada, England, and the United States to serve our global markets.

Please contact our customer service department or your local distributor to discuss your requirements.

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