

Discover

# SANDPIPER® Pumping Solutions



**FACT:** Flammable gases, vapors, mists and dust as small as .03mm are explosive safety concerns when oxygen (air) is present and ignited.



## **Solution: Explosive Atmosphere Duty Pumps from Warren Rupp®**


Warren Rupp guarantees that its AODD pumps are your insurance for full ATEX Compliance, providing 100% groundability with conductive materials of construction and ensuring no static electricity build-up for ignition-free operation.

**Over 40 Years  
Explosive  
Atmosphere  
Industry Experience!**

**For Explosive Atmosphere Duty**


- ▶ Chemical
- ▶ Petro Chemical
- ▶ Food Processing
- ▶ Oil & Gas
- ▶ Mining

# What is ATEX?

**ATEX**  (*Atmosphères Explosibles*) is an acronym for the standard set by the European Parliament & Council of the European Union, recognized throughout the European Community as the safety standard for equipment used in potentially hazardous environments.




## What are the assurances of full compliance?

Products marked with the EX hexagon symbol followed by the Group and Category of safety protection indicates that the products are compliant with Directive 94/9/EC.



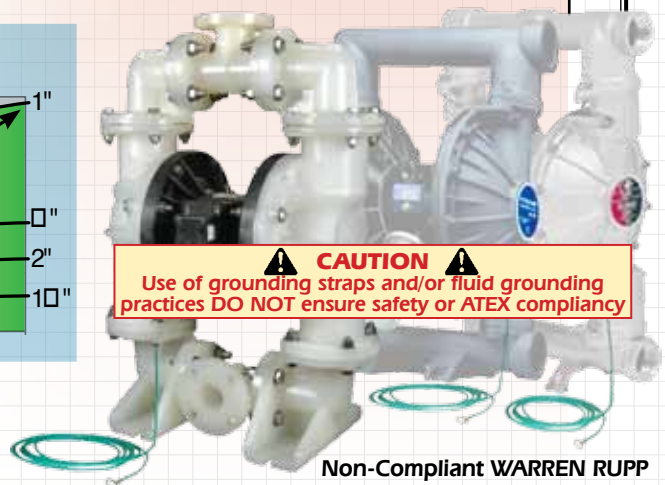
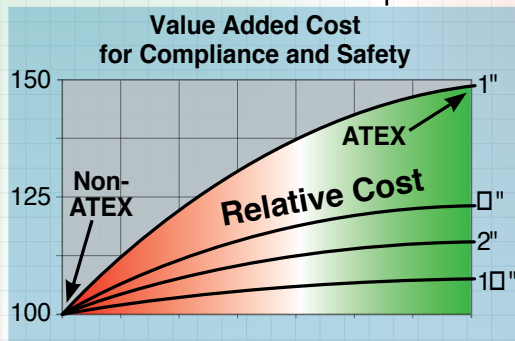
**\*Warren Rupp® Non-Metallic Pumps fully comply with ATEX requirements!**

### ✓ Recognize the components of ATEX Compliant Pumps!

	 <b>CONDUCTIVE (ATEX Compliant)</b>	<b>NON-CONDUCTIVE (Not ATEX Compliant)</b>
<b>Non-Wetted</b>	<b>*Conductive</b> 40% Glass-Filled Polypropylene	<b>Non-Conductive</b> Polypropylene
<b>Wetted</b>	<b>*Conductive</b> Carbon-Filled Polypropylene (*Models: S05, S1F, S15, S20)	<b>Non-Conductive</b> Polypropylene
	<b>*Conductive</b> Carbon-Filled PVDF (*Models: S05, S1F)	<b>Non-Conductive</b> PVDF
 <b>ATEX SAFETY BENEFITS</b>		
	Fully groundable	Not groundable
	Electrical continuity	No electrical continuity
	Electro-Static discharges are dissipated in a continual current path throughout the pump to a natural ground	Non-conductive components exceed cm <sup>2</sup> (the maximum exposed surface area) required by the ATEX standard
	No isolated metallic hardware components	Isolated metallic hardware components



**ATEX Compliant WARREN RUPP Pump**



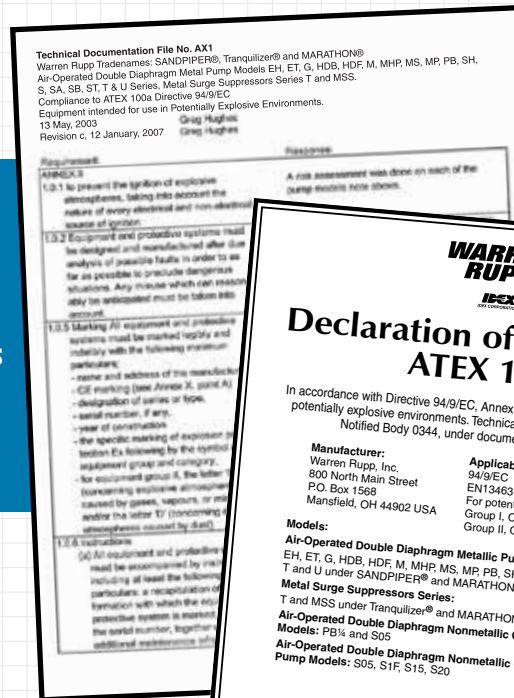
**CAUTION**  
Use of grounding straps and/or fluid grounding practices **DO NOT** ensure safety or ATEX compliancy

**Non-Compliant WARREN RUPP and Competitive Brands**

Warren Rupp® self-declares compliance with the safety requirements according to ANNEX VIII of this directive. This safety compliance includes:

- Filing a Technical Risk Assessment File AX1 with the notified body (Warren Rupp files with KEMA Quality, B.V. The Netherlands, Notified Body 0344 under Document 203040000). Requirements for compliance include, but are not limited to:
  - Due analysis of equipment and protective systems
  - Marking all equipment and protective systems
  - Accompanying all equipment and protective systems by instructions
  - Precise selection of spark-free materials
  - Analysis of hazards arising from different ignition sources
- Filing a Declaration of Conformity with the notified body
- Including the Declaration of Conformity with the shipment of every Warren Rupp ATEX compliant pump

**Warren Rupp's self-declared use of the ATEX mark and the documentation we provide is our published guarantee of compliance with the requirements of the Directive and the safety of our products.**



## ATEX Compliance offers important **SAFETY** BENEFITS:

- FULLY Groundable
- Spark-FREE
- ATEX Compliant means SAFE for use of equipment in potentially explosive environments



# SANDPIPER®

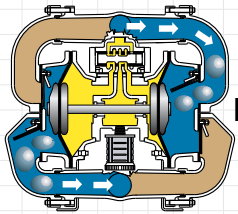
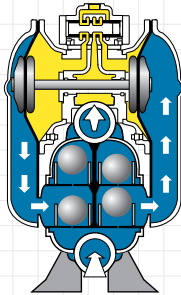
## World Leader in Fully Compliant ATEX AODD Pumps

...with fully Groundable, Ignition-Free, Safe, Air-Operated Double Diaphragm Technology

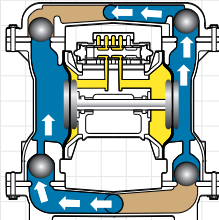
### MATERIALS

SIZE	MODELS	MAX FLOW	Non-Metallic						Metallic				
			CP	PP	K	NY	CA	CV	AL	CI <sup>2</sup>	SS <sup>2</sup>	HC <sup>2</sup>	
<b>HEAVY DUTY BALL VALVE</b>													
1"	SB1	42 gpm (159 l/min)								Ex		Ex	Ex
1"	HDB1	90 gpm (340 l/min)								Ex	Ex	Ex	Ex
2"	HDB2	135 gpm (511 l/min)								Ex	Ex	Ex	Ex
3"	HDB3	260 gpm (984 l/min)									Ex	Ex	
4"	HDB4	260 gpm (984 l/min)									Ex		
<b>HEAVY DUTY FLAP VALVE</b>													
1"	SA1	42 gpm (159 l/min)								Ex		Ex	
2"	HDF2	140 gpm (530 l/min)								Ex	Ex	Ex	
3"	HDF3	260 gpm (984 l/min)								Ex	Ex		
4"	HDF4	260 gpm (984 l/min)								Ex	Ex		
<b>STANDARD DUTY METALLIC</b>													
"	X02	4.4 gpm (16.6 l/min)										Ex	
"	S05	15 gpm (57 l/min)								Ex		Ex	Ex
1"	S1F	45 gpm (170 l/min)								Ex	Ex	Ex	Ex
1"	S15	106 gpm (401 l/min)								Ex	Ex	Ex	Ex
2"	S20	150 gpm (568 l/min)								Ex	Ex	Ex	Ex
3"	S30	238 gpm (901 l/min)								Ex	Ex	Ex	Ex
<b>STANDARD DUTY NON-METALLIC</b>													
"	PB	4 gpm (15 l/min)						Ex					
"	S05	14 gpm (53 l/min)	Ex					Ex	Ex				
1"	S1F	45 gpm (170 l/min)	Ex						Ex				
1"	S15	100 gpm (378 l/min)	Ex										
2"	S20	160 gpm (606 l/min)	Ex										
<b>CONTAINMENT DUTY METALLIC</b>													
1"	ST1-A	42 gpm (159 l/min)								Ex		Ex	Ex
1"	ST1 -A	90 gpm (340 l/min)								Ex	Ex	Ex	Ex
<b>HIGH PRESSURE 2:1</b>													
2"	SH2 Flap	62 gpm (235 l/min)									Ex	Ex	
2"	GH2 Gas	62 gpm (235 l/min)								Ex	Ex		

HDB

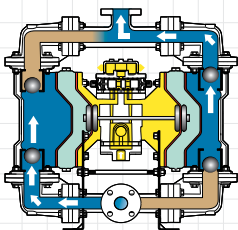


HDF



SD

Metallic & Non-Metallic



CD

**ATEX Compliant**



I M2 c T5<sup>2</sup>  
II 2GD T5

CP = Conductive Polypropylene

PP = Polypropylene

K = PVDF

NY = Nylon

CA = Conductive Acetal

CV = Conductive PVDF

AL = Aluminum

CI = Cast Iron

SS = Stainless Steel

HC = Alloy C

Distributed by:

**WARREN RUPP®**

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