CONTAINMENT DUTY BALL VALVE PUMPS



The only complete line of AODD pumps featuring superior fluid containment; protecting your people, environment, and pump.

Tel: 866-777-6060 Fax: 866-777-6383 Int'l: +001 267 404 2910

Springer Pumps, LLC Springer Parts®

KEY ADVANTAGE

WHAT HAPPENS WHEN THE PUMPING DIAPHRAGM IS BREACHED

TYPICAL AODD PUMP





When the pumping diaphragm is breached, the fluid enters the air distribution system and escapes into the environment through the muffler, requiring immediate service.

This results in:

Safety & Environmental Hazards

\$

Costly Clean-up & Maintenance



Interruption of Operations



Loss of System Fluid



Extended Downtime



Potential for Product / Process Contamination from Air Supply



ENGINEERED PUMPING SOLUTION

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CONTAINMENT DUTY

When the pumping diaphragm is breached, the fluid enters the containment chamber and visual indicator sight tubes, alerting the user. The fluid is fully contained so the pump can continue running until the operation is complete or maintenance can be scheduled.



NO Safety & Environmental Hazards



NO Costly Clean-up & Maintenance



NO Interruption of Operations



NO Loss of System fluid



NO Extended Downtime



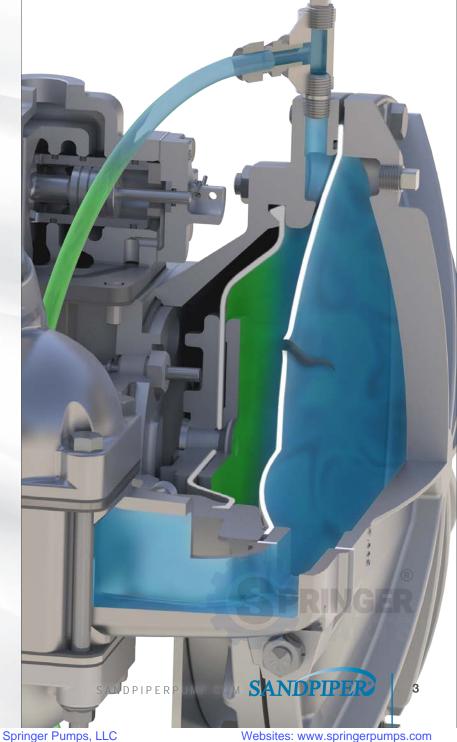
No Product / Process Contamination from Air Supply



SANDPIPERPUMP.COM/CONTAINMENT

ONS WITH MORE WAYS THAN ONE

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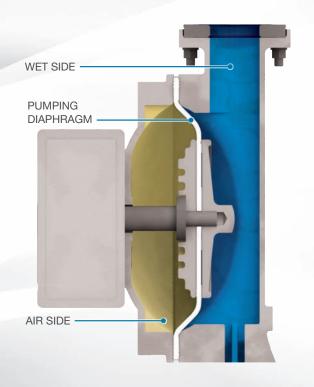
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TWO DIAPHRAGMS ARE BE

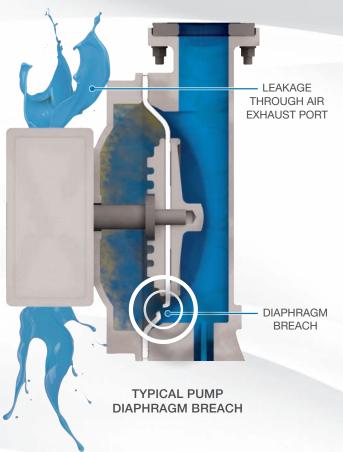
HOW IT WORKS

TYPICAL AODD PUMP





TYPICAL PUMP NORMAL OPERATION



Typical AODD pump designs utilize a **single pumping diaphragm** to drive the fluid. The pumping diaphragm is the **only barrier** between the Wet Side and Air Side of the pump. This diaphragm is an elastomeric material that **will eventually wear or become breached.** When this occurs, the system fluid enters the Air Side of the pump and **escapes to the environment** through the air exhaust muffler. The pump must be **immediately repaired or replaced.**

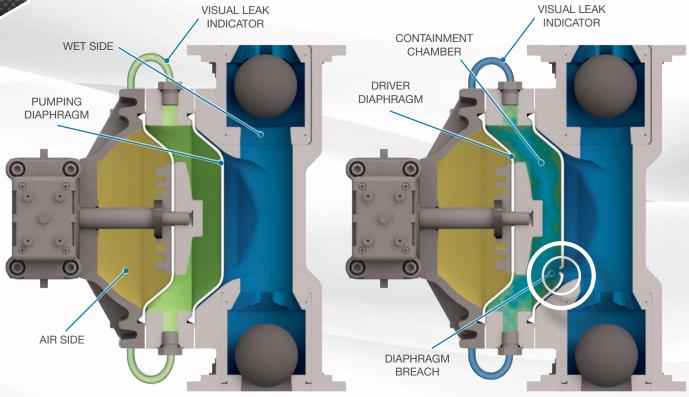
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BETTER THAN ONE

CONTAINMENT DUTY



CONTAINMENT PUMP NORMAL OPERATION

CONTAINMENT PUMP DIAPHRAGM BREACH

Websites: www.springerpumps.com

www.springerparts.com

SANDPIPER Containment Duty pumps feature an additional driver diaphragm. The space between the pumping and driver diaphragms is called the containment chamber. It is filled with a "system compatible" fluid and is void of air. This hydraulically locks the two diaphragms together. When the driver diaphragm is breached, the system fluid enters the containment chamber and the indicator system alerts the user of a breach. However, the system can continue operating until maintenance can be scheduled. The system fluid does not escape to the environment, which eliminates the cost of a major cleanup.

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PUMP ANATOMY

CONTAINMENT DUTY



Containment Chamber -

The area between the pumping and driver diaphragms that contains the fill fluid; This creates a barrier between the fluid and the air distribution system / environment



Leak Detection -

Alerts the user of a breach in the pumping diaphragm when equipped with visual, electronic, or mechanical leak detectors



Fill Fluid -

A compatible liquid that hydraulically couples the pumping and driver diaphragms, allowing them to operate in tandem



Pumping Diaphragm

This diaphragm stays in contact with the fluid and moves it though the system



Driver Diaphragm -

This diaphragm stays in contact with the fill fluid and drives the pump



System Fluid

What you are pumping



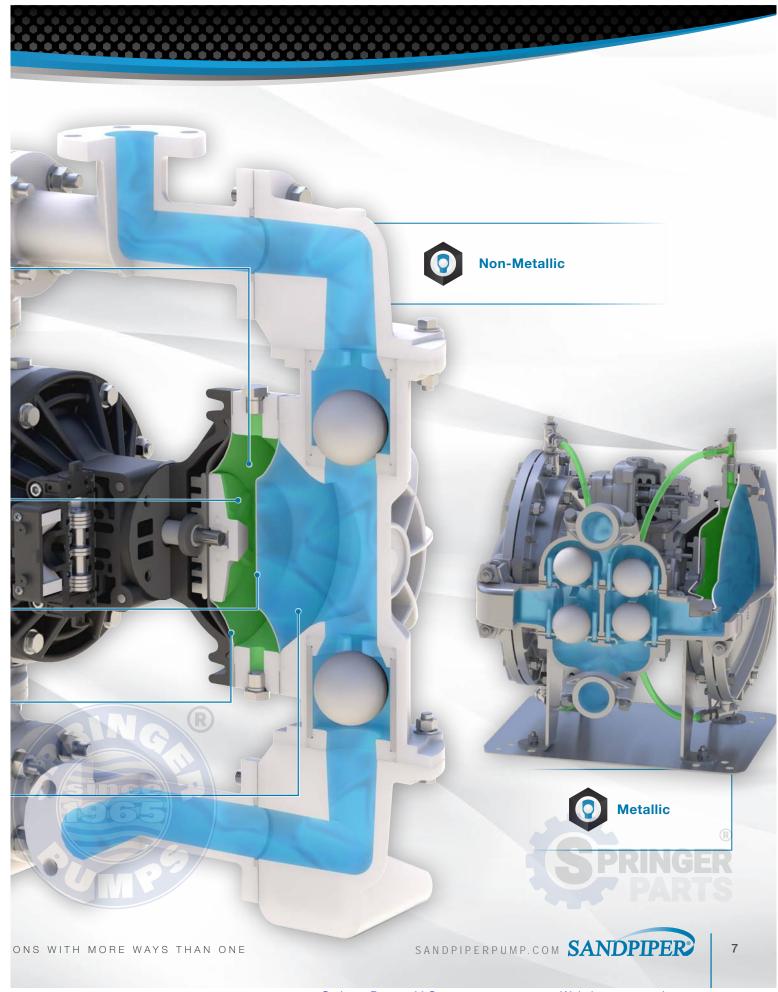
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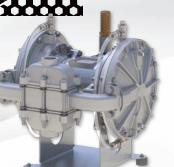
MINMENT DUTY BALL VALVE PUMPS

& SPECIFICATIONS

T25 Metallic







SOLIDS HANDLING Up to .25" (6.3 mm)

MAX FLOW 42 GPM (159 LPM) **MAX PRESSURE** 125 psi (8.6 bar)

DISPLACEMENT

0.09 gallon (.34 liter)

OPTIONS					
Porting	Wet Side	Air Side	Driver Diaphragms	Pumping Diaphragms	Check Balls
1" NPT Threaded	Aluminum	Aluminum	Neoprene	PTFE	PTFE
25mm BSP Threaded	Stainless Steel		Fluorocarbon (FKM)		
	Alloy C		PTFE-Neoprene		



ST11/2 / ST40 Metallic







SOLIDS HANDLING

Up to .25" (6.3 mm)

MAX FLOW 106 GPM (400 LPM) **MAX PRESSURE** 125 psi (8.6 bar)

DISPLACEMENT

0.37 gallon (1.4 liter)

OPTIONS						
Porting	Wet Side	Air Side	Driver Diaphragms	Pumping Diaphragms	Check Balls	
1-1/2" NPT Threaded	Aluminum	Aluminum	Neoprene	PTFE	PTFE	
40mm BSP Threaded	Stainless Steel	Cast Iron	Fluorocarbon (FKM)			
	Alloy C		EPDM			



S1F Non-Metallic





SOLIDS HANDLING Up to .25" (6.3 mm)

MAX FLOW

53 GPM (201 LPM)

MAX PRESSURE 100 psi (7 bar)

DISPLACEMENT

.19 gallon (.72 liter)

Porting Wet Side Air Side Driver Pumpin Diaphragms Diaphrag 1" ANSI Flange Polypropylene Polypropylene PTFE-Santoprene® PTFE	
3, 13	ms Shook Balk
	PTFE
25mm DIN Flange PVDF Santoprene® Santopre	ne® Santoprene®
One-Piece Bonded	SINGE

Santoprene is a registered tradename of Exxon Mobil Corp.

For more detailed Performance and Specification inf

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S15 Non-Metallic

(E



SOLIDS HANDLING Up to .47" (12 mm)

MAX FLOW 100 GPM (379 LPM) **MAX PRESSURE**

DISPLACEMENT

100 psi (7 bar) .43 gallon (1.63 liter)

OPTIONS						
Porting	Wet Side	Air Side	Driver Diaphragms	Pumping Diaphragms	Check Balls	
1-1/2" ANSI Flange	Polypropylene	Polypropylene	PTFE-Neoprene	PTFE	PTFE	
40mm DIN Flange	PVDF		Santoprene®	Santoprene®	Santoprene®	



S20 Non-Metallic

CE



MAX FLOW 160 GPM (606 LPM) **MAX PRESSURE**

DISPLACEMENT



100 psi (7 bar)

.46 gallon (1.74 liter)

OPTIONS					
Porting	Wet Side	Air Side	Driver Diaphragms	Pumping Diaphragms	Check Balls
2" Universal ANSI / DIN Flange	Polypropylene PVDF	Polypropylene	PTFE-Neoprene Santoprene®	PTFE Santoprene®	PTFE Santoprene®



S30 Non-Metallic





SOLIDS HANDLING Up to .71" (18 mm)

MAX FLOW

238 GPM (901 LPM)

MAX PRESSURE

100 psi (7 bar)

DISPLACEMENT .9 gallon (3.41 liter)

OPTIONS

or mone						
Porting	Wet Side	Air Side	Driver Diaphragms	Pumping Diaphragms	Check Balls	
3" ANSI Flange 75 mm DIN Flange	Polypropylene PVDF	Epoxy Coated Aluminum	PTFE-Santoprene® Santoprene®	PTFE Santoprene®	PTFE Santoprene®	
			56	5PR	NGE	

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ONS WITH MORE WAYS THAN ONE

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WHAT'S THE RISK?

WHY USE CONTAINMENT DUTY PUMPS?



Environmental Concerns

When these fluids escape to the environment, significant time and effort is required to clean them up. Additionally, the costs of downtime, lost production, manpower, equipment replacement, disposal fees, and fines can be excessive.

- · Paints, Inks, and Coatings
- · Adhesives and Resins
- · Chemicals and Petrochemicals
- · Oils and Hydrocarbons
- · Acids, Caustics, Corrosives
- · Resins and Polymers
- Contaminated Water and Wastewater
- Pesticides and Herbicides
- Fertilizers
- Preservatives
- Mercury
- Phthalates

High Cost of Lost Fluid

When these fluids escape to the environment, the cost of losing them is significant. Lost fluid means lost profit.

- Drugs and Pharmaceuticals
- Foods
- Cyanotic Based Paints
- Precious Metal Based Fluids
- Cosmetics
- Perfumes
- Printer Inks
- Beer and Alcohol
- Blood
- Creams and Lotions

Fluids That Need Contained

Even non-toxic fluids like clean water can create hazards, annoyances and safety concerns if your people are in or around the area surrounding a pump when a diaphragm fails.

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ESADS+PLUS

SANDPIPER'S EXTERNALLY SERVICEABLE AIR DISTRIBUTION SYSTEM

SANDPIPER's Externally Serviceable Air Distribution System (ESADS) allows for quick and easy access to the pilot and spool valves without removing the pump from service, maximizing up time!

SANDPIPER

COMPETITORS



The Air Motor's Pilot Valve is the Most Often Serviced Part on an AODD Pump



5 MINUTES FOR MAINTENANCE / CLEANING

Accomplished in minutes without removing pump from service by removing only 4 bolts



Saves you money by minimizing downtime

55 MINUTES OR LONGER FOR MAINTENANCE / CLEANING

The air valve components can only be accessed by removing the pump from service and taking it entirely apart



Costs you money due to extended downtime



ROBUST DIAPHRAGM CONNECTING ROD

Guaranteed not to yield under tension, compression, or bending.



5 YEAR LIMITED PRODUCT WARRANTY

5 Year Guarantee for defects in material or workmanship.



AIR DISTRIBUTION SYSTEM

Allows for quick and easy access to the pilot and spool valves.

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WHAT HAPPENS WHEN YOUR PUMP HAS A SPILL?



DAILY NEWS

Company spends
\$250,000 to clean
up 1 quart of oil

HOW MUCH ARE YOU WILLING TO INVEST TO PREVENT A SPILL?

Typical 1" Stainless Steel AODD Pump \$2,500 SANDPIPER 1" Containment Duty Pump \$4,000

*varies by size and materials of construction

Difference*

\$1,500

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Warren Rupp, Inc. | A Unit of IDEX Corporation 800 North Main Street, Mansfield, OH 44902 USA Phone: 419.524.8388 | Fax: 419.522.7867 SANDPIPERPUMP.COM



Contact Your Local Distributor to Place Your Order:





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SP_ContainmentDutyBrochure-rev0118

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