

WARREN RUPP, INC.[®]

MANUFACTURERS OF SANDPIPER[®], VERSA-MATIC[®] & BLAGDON[®] AODD PUMPS & ENGINEERED SYSTEMS

ENGINEERING PROJECT CAPABILITIES

- ✓ Customization
- ✓ Documentation
- ✓ Global site start-up
- ✓ Local service
- ✓ Milestones
- ✓ Post-commissioning
- ✓ Single point of contact
- ✓ Scope
- ✓ Specifications
- ✓ Tender conditions
- ✓ Testing
- ✓ Quality



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ENGINEERING PROJECT CAPABILITIES

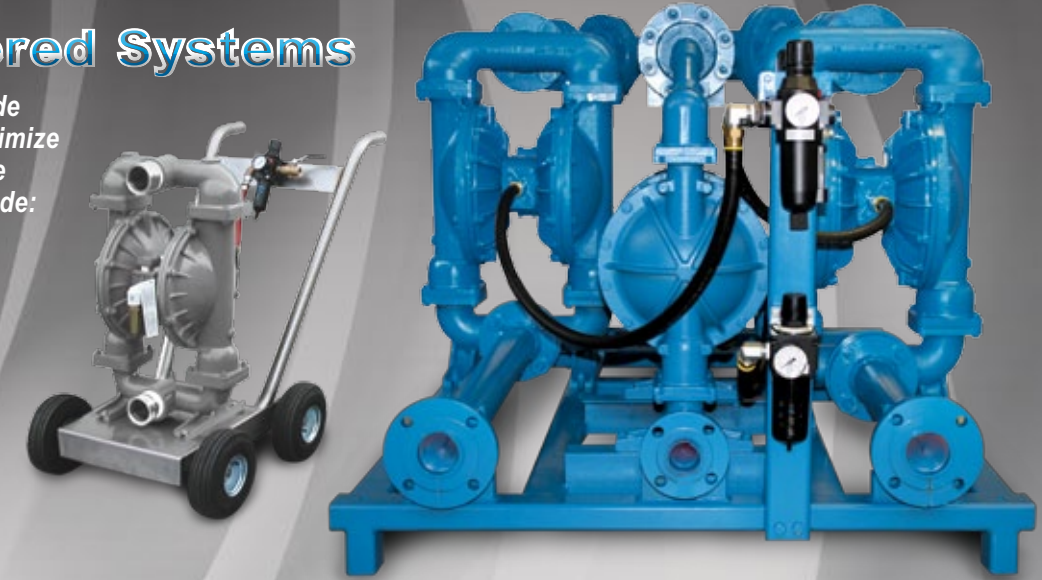
Services

SERVICE	DESCRIPTION
 Performance Testing	<ul style="list-style-type: none"> Assembly cycle testing with hold pressure vacuum readings (standard) Certified one-point head capacity tests Certified additional points Dry lift testing
 Pressure Testing	<ul style="list-style-type: none"> Hydro/pneumatic testing 90 psi (standard) Hydro/pneumatic 1.5 times maximum operating pressure
 Repair Services	<ul style="list-style-type: none"> Pump repair (labor only)
 Material & Pump Certificates	<ul style="list-style-type: none"> Certificate of origin Certificate of conformance (pump) Standard non-certified dimensional outlines (to order contact Application Engineering) Certified dimensional outlines Material test reports (MTR) Certificate of compliance (material)
 Custom Coating	<ul style="list-style-type: none"> Epoxy, water based, two part (exterior only) Customer specific PTFE Halar Nickel plated midsection
 Custom Products	<ul style="list-style-type: none"> Custom and engineered products and systems to meet your application Custom product dimensional outlines
 Custom Nameplates	<ul style="list-style-type: none"> Four (4) lines, 24 letter maximum Custom stainless steel nameplates
 Material Testing	<ul style="list-style-type: none"> PMI (Positive Material Identification) Hardness testing Liquid penetrant testing Radiographic testing Magnetic partical testing Other
 Additional Pump Testing	<ul style="list-style-type: none"> Impact test Seismic test Sound test Other



Custom Engineered Systems

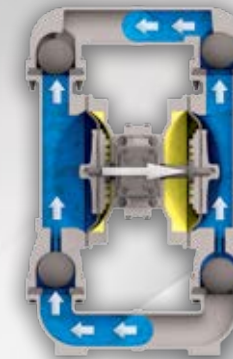
No matter the circumstances we provide custom engineered solutions that maximize the productivity of all processes. Some examples of our custom systems include:

- Skid systems
- High pressure, filter press feed systems
- Mobile skid systems
- Custom environmental protection packaging
- Heat jacket systems
- Nuclear industry waster handling and pump flushing systems

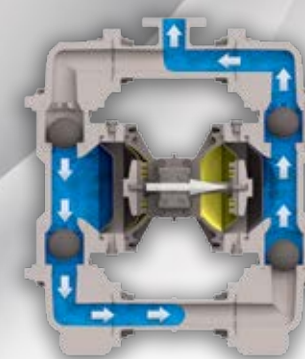


Signature Configurations

 = COMPRESSED AIR  = PUMPED FLUID



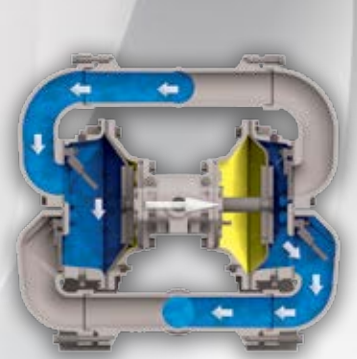
Standard Duty



Containment Duty



Heavy Duty Ball



Heavy Duty Flap

Quality Assurance

To complete the pump assembly process, ALL PUMPS are tested in the following manner to ensure a quality built product:

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1. Dry Cycled Test
 - Checked for rhythmic cycling
 - Checked for abnormal vibrations
 - Checked for motion abnormalities
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2. Wet Cycled Test
 - Checked for dry priming
 - Checked for cycling characteristics
 - Checked for abnormal noise levels
- 
3. Vacuum Characteristics Test
- 
4. Dead Head Characteristics Test
 - Checked for maximum fluid pressure
 - Checked for leakage
 - Checked for valving "By-Pass"
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5. Comprehensive Visual Inspection
 - Hardware checked
 - Mating surfaces checked
 - Paint quality check
 - Packaging checked

Daily proactive process and product audits are performed at all work centers.

WARREN RUPP, INC.®

Around the world everyday, Warren Rupp, Inc. pumps are the workhorse of countless processes and we provide the startup services and engineering assistance to meet the demands of any situation.

A Unit of IDEX Corporation



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