

Quality System
ISO9901 Certified

Environmental
Management System
ISO14001 Certified



U.S. Patents #
5,996,624 & 6,241,487

**Non-Clog
Wastewater Pump
W15-3/W15-4
FLAP VALVE TYPE I
Air-Powered
Double-Diaphragm**

ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA

INTAKE/DISCHARGE PIPE SIZE	CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO
125# ASA Flange W15-3: 3"(75mm) W15-4: 4"(100mm)	0 to 260 gallons per minute (0 to 988 liters per minute)	No-lube, no-stall design.	To 3" (76mm)	125 psi or 289 ft. of water (8.8 Kg/cm ² or 88 meters)

This SANDPIPER® is designed specifically for the processing of municipal and industrial wastewater. Its solids handling capability and special features make it the ideal choice for safe, sealless pumping of waste materials.

The W15 model designation indicates a wastewater unit (W) which pumps roughly 15,000 gallons of water per hour(15). The W15-3 has 3" flange connections. And the W15-4 features 4" flange connections. When specifying or ordering, please state model designation, as well as type.

All types shown below are available for both W15-3 and W15-4.

- Sealless.
- Self-priming.
- Designed to easily pump abrasive, viscous slurries.
- Swing-type check valves handle spherical solids to 3".
- Easy-access check valve clean-outs.
- In-line serviceable wet end. ESADS+Plus: Externally Serviceable Air Distribution System.
- Top suction - bottom discharge porting.

MATERIALS OF CONSTRUCTION

All types available for W15-3 and W15-4. When specifying or ordering, please state model designation, as well as type.

Type	Manifold Porting Bottom	Manifold Elbow	Outer Chamber	Inner Chamber	Outer Diaphragm Plate	Inner Diaphragm Plate	Intermediate Housing	Diaphragm Rod	Valve Seat	Hard-ware	Diaphragm	Flap Valve Material	Seat Gasket	Manifold Sealing Rings	W15-3 Shipping Wt.(lbs)	W15-4 Shipping Wt.(lbs)
DA-1-II	X	CI	CI	CI	CI	CI	CI	416SS	CI	SS	N	U	A	N	478	530
DN-1-II	X	CI	CI	CI	CI	CI	CI	416SS	CI	SS	N	N	A	N	478	530
DB-1-II	X	CI	CI	CI	CI	CI	CI	416SS	CI	SS	B	B	A	B	478	530
DS1-II	X	CI	CI	CI	CI	CI	CI	416SS	CI	SS	S	S	A	E	478	530

Meanings of Abbreviations:

A = Compressed Fibre
B = Buna-N

PS = Plated Steel
CI = Cast Iron

N = Neoprene
SS = Stainless Steel

U = Ruppilon®
S = Santoprene
E = EPDM

MATERIALS

Operating Temperatures

	Operating Temperatures		
	Maximum*	Minimum*	Optimum**
BUNA-N General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C	50°F to 140°F 10°C to 60°C
NEOPRENE All purpose. Resistant to vegetable oils. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters, nitro hydrocarbons and chlorinated aromatic hydrocarbons.	170°F 77°C	-35°F -37°C	50°F to 130°F 10°C to 54°C
RUPPLON® (Urethane) Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150°F+ 66°C+	+32°F 0°C	50°F to 110°F 10°C to 43°C
EPDM Shows very good water and chemical resistance. Has poor resistance to oil and solvents, but is fair in ketones and alcohols.	212°F 100°C	-12°F -23°C	50°F to 212°F 10°C to 100°C
Santoprene® Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50°F to 212°F 10°C to 100°C

For specific applications, always consult the Warren Rupp Chemical Resistance Chart. Warren Rupp, SANDPIPER® and Ruppilon® are registered tradenames of Warren Rupp, Inc.

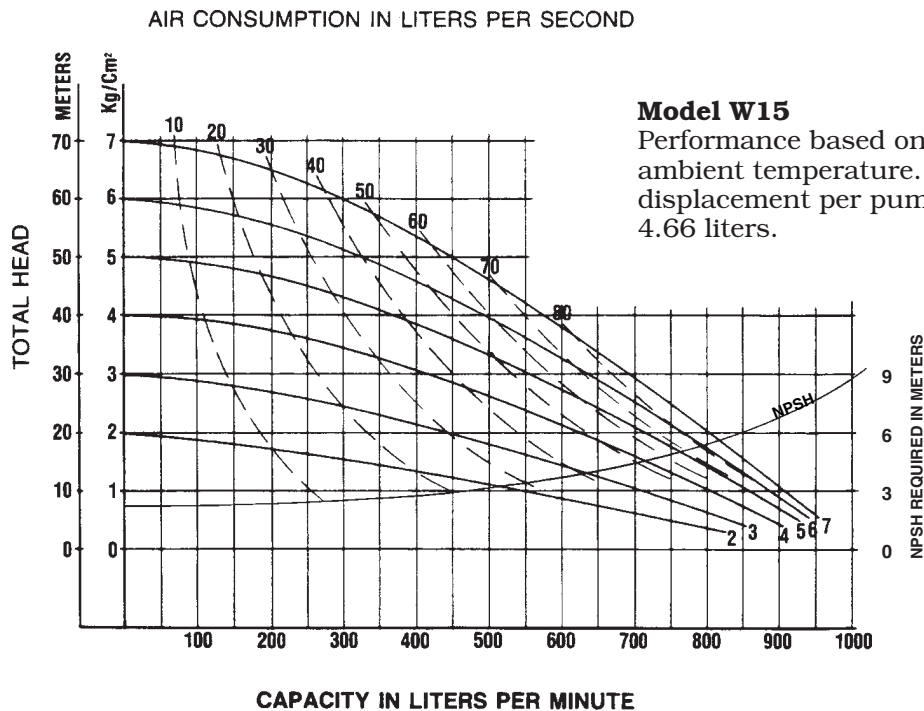
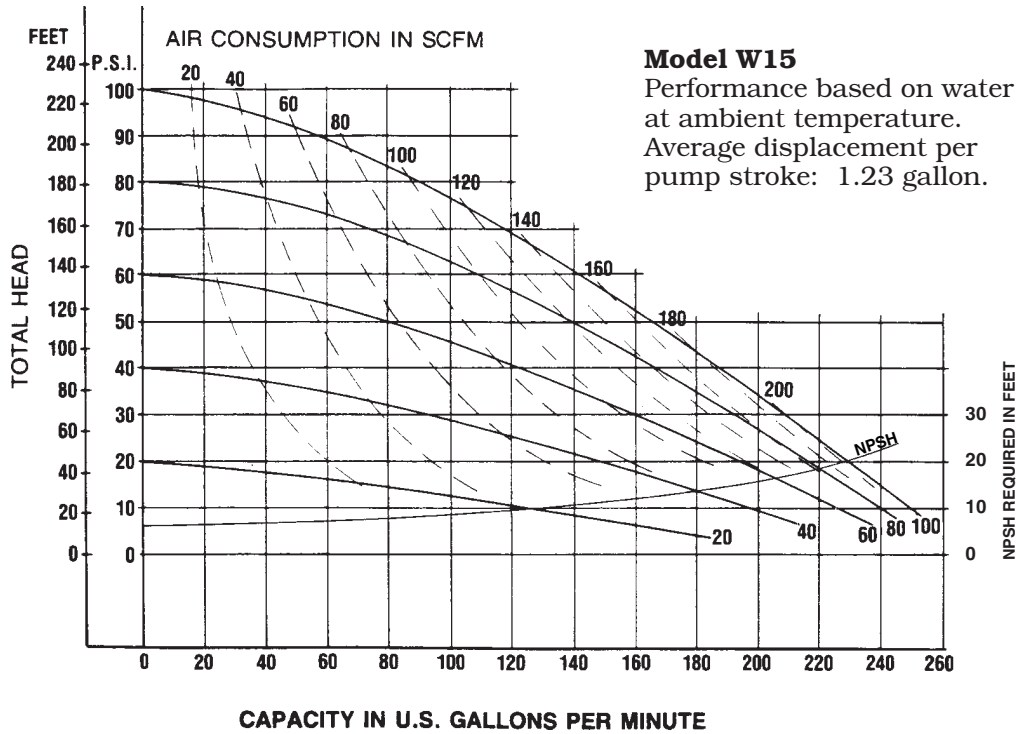
*Definite reduction in service life.
**Minimal reduction in service life at ends of range.

W15 Non-Clog Wastewater



PERFORMANCE CURVES

(SANDPIPER® pumps are designed to be powered **only** by compressed air)
 Temperature Limit: 212°F - 100°C MAXIMUM



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