



SANDPIPER®

A WARREN RUPP PUMP BRAND

Containment Duty ET 1 1/2-M Type 3 Air-Powered Double-Diaphragm Pump

ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA

Quality System
ISO9001 Certified

Environmental
Management System
ISO14001 Certified



INTAKE / DISCHARGE PIPE SIZE	CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO
2" (51mm) NPT(F) intake 1 1/2" (38mm) NPT(F) discharge	0 to 123 gallons per minute (0 to 465 liters per minute)	No-lube, no-stall design.	Occasional solids only, up to 1/4" (6mm)	125 psi or 289 ft. of water (8.8 Kg/cm ² or 88 meters)

SANDPIPER® Containment Duty Pumps: Sealless Safety

This pump is part of the Containment Duty Pumps. It is specially fitted with PTFE diaphragms as well as elastomeric or elastomeric/PTFE driver diaphragms. The liquid-filled spill chambers provide an additional chemically-resistant barrier, should a pumping diaphragm fail. The containment duty design gives the pump user advanced warning of diaphragm failure, before pumpage can damage the air valve or be released into the work environment. Two optional leak detectors available for this model:

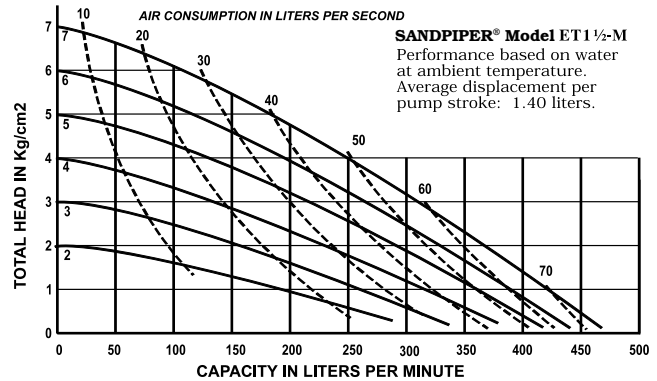
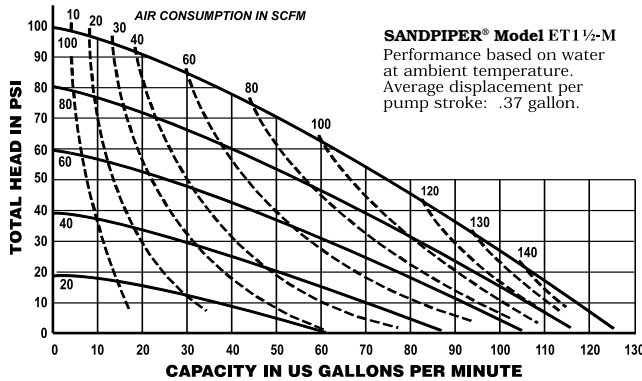
- Electronic Leak Detector (115V) 032-043-000
- Electronic Leak Detector (220V) 032-043-000

The Containment Duty pumps offer many different levels of materials and spill monitoring devices designed to fit a variety of applications and budgets.

PERFORMANCE CURVES

(SANDPIPER® pumps are designed to be powered **only** by compressed air)

Temperature Limit: 212°F - 100°C MAXIMUM



MATERIALS OF CONSTRUCTION

ET1 1/2-M Type 3	Driver Chamber	Manifold & Elbow	Outer Chamber	Inner Chamber	Outer Driver Diaphragm Plate	Inner Driver Diaphragm Plate	Inter-mediate Housing	Diaphragm Rod	Valve Seat	Hardware	Driver Diaphragm	Pumping Diaphragm	Ball Valve Material	Seat/Manifold Gasket	Air Valve	Shipping Wt. (lbs)
TGN-3-S	T	WR-S	WR-S	AL356T6	WR-S	AL380DC	AL356T6	416SS	T	304SS	N	T	T	T	AL356T6	138
TGGN-3-S	T	WR-S	WR-S	AL356T6	WR-S	AL380DC	AL356T6	416SS	T	304SS	N/T	T	T	T	AL356T6	138
TGGN-3-SI	T	WR-S	WR-S	DI	WR-S	AL380DC	AL356T6	416SS	T	304SS	N/T	T	T	T	AL356T6	201

Meanings of Abbreviations:

AL = Aluminum
DC = Die Cast
DI = Ductile Iron

N = Neoprene
N/T = Neoprene Backup w/ PTFE Overlay
SS = Stainless Steel

T = PTFE
WR-S = Warren Rupp Alloy Type 316SS

Model ET1 1/2-M Type 3

Warren Rupp, Inc. • A Unit of IDEX Corporation

et15mdl3ds-rev0711

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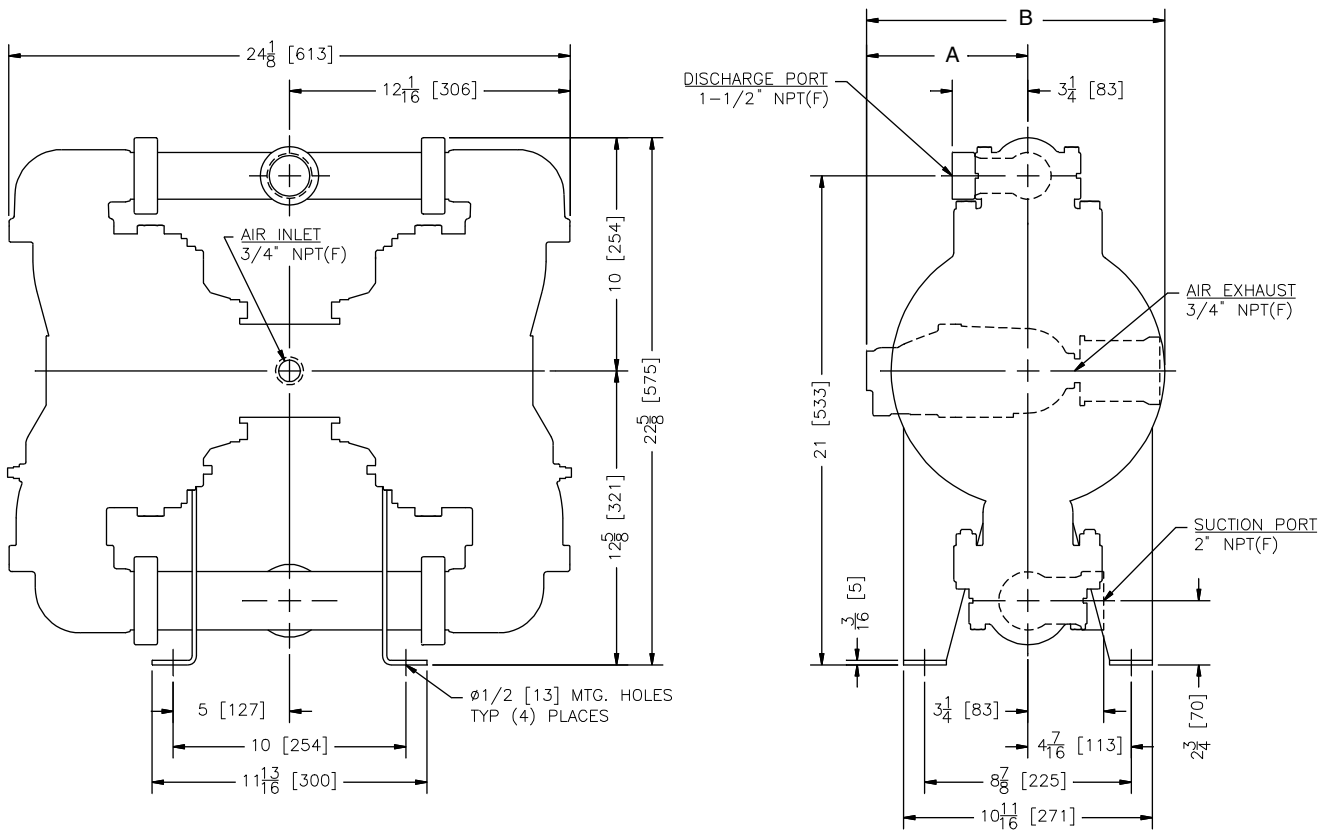
ET1½-M CONTAINMENT DUTY



MATERIALS	Operating Temperatures		
	Maximum*	Minimum*	Optimum**
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
PTFE Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE: molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures. Diaphragm stock partiality superior in omni-direction tensile strength and thermal stability.	212°F 100C+	-35°F -37°C	50°F to 212°F 10°C to 100°C
WR-S Warren Rupp Alloy Type 316 Stainless Steel equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel, and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.			
For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin.		*Definite reduction in service life. **Minimal reduction in service life at ends of range.	

Dimensions are ± 1/8"
Figures in parenthesis = millimeters

Dimension	A to Air Inlet	B Width
Standard Pump	7" (178)	12.13/16" (325)
Pulse Output Kit	7.9/16" (192)	13.3/8" (340)



2" NPT(F) SUCTION • 1½" NPT(F) DISCHARGE • ¾" NPT(F) AIR INLET PORT • ¾" NPT(M) AIR EXHAUST PORT