DMF3S METALLIC PUMP TECHNICAL DATA SHEET

SERIES

NATUAL GAS PUMPS

CSA certified to ANSI LC6 standard and Canadian Technical Letter No. R-14 for operation using sweet or sour natural gas

PERFORMANCE

SUCTION / DISCHARGE PORT SIZE

• 2" (50mm) NPT (F)

CAPACITY

• 0 to 140 gallons per minute (0 to 530 LPM)

AIR DISTRIBUTION VALVE

No-lube, no-stall design

SOLIDS-HANDLING

Up to 2" in. (50mm)

HEADS UP TO

- 125 psi or 289 ft. of water
 - (8.6 Kg/cm² or 86 meters)

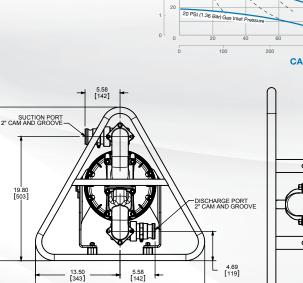
MAXIMUM OPERATING PRESSURE

• 125 psi (8.6 bar)

DISPLACEMENT/STROKE

.42 Gallon / 1.59 liter

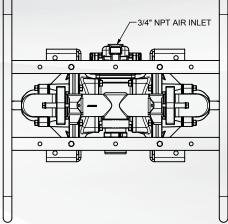
DIMENSIONS



BAR PSI

HEAD

SCFM (M3/h



SAI GLOBAL

ISO 9001 Certified ISO 14001 Certified



13.00 [330]

26.00 [660]

11.93 [303]

5 YEAR LIMITED PRODUCT WARRANTY

5 Year Guarantee for defects in material or workmanship. See sandpiperpump.com/content/warranty-certifications for complete warranty, including terms and conditions, limitations and exclusions.

24.50 [622]



27.00 [686]

USE ONLY GENUINE SANDPIPER PARTS

CE (Ex) [H[#Hydraulic

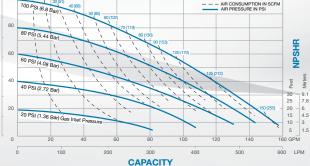
All certification, standards, guarantees & warranties originally supplied with this pump will be invalidated by the use of service parts not identified as "Genuine SANDPIPER Parts."



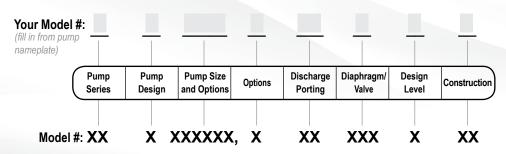
Warren Rupp, Inc. • A Unit of IDEX Corporation 800 N. Main St., Mansfield, Ohio 44902 USA Telephone 419.524.8388 • Fax 419.522.7867



Performance based on water at ambient temperature



EXPLANATION OF PUMP NOMENCLATURE



DESIGN LEVEL 7

PUMP SERIES DM MUD DUTY

PUMP DESIGN F FLAP

PUMP SIZE

3S MUD DUTY SKID BASE

DISCHARGE PORTING POSITION

D Down Ported

DIAPHRAGM CHECK VALVE MATERIALS

в Nitrile

MATERIALS

Material Profile:		rating ratures:	POLYPROPYLENE: A thermoplastic polymer. Moderate tensile and flex strength. Resists stong acids and alkali. Attacked by	
CAUTION! Operating temperature limitations are as follows:	Max.	Min.	chlorine, fuming nitric acid and other strong oxidizing agents.	
CONDUCTIVE ACETAL: Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing agents.	190°F 88°C	-20°F -29°C	PVDF: (Polyvinylidene Fluoride) A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.	
			SANTOPRENE®: Injection molded thermoplastic elastomer with	
EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°C	no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	
	100 0	10 0	UHMW PE: A thermoplastic that is highly resistant to a broad range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	
FKM (FLUOROCARBON): Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F(21°C)) will attack	350°F 177°C	-40°F -40°C		
			URETHANE: Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	
FKM. HYTREL [®] : Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C	VIRGIN PTFE: (PFA/TFE) 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	
NEOPRENE: All purpose. Resistance to vegetable oils. Gener- ally not affected by moderate chemicals, fats, greases and	200°F 93°C	-10°F -23°C	fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	
many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters and nitro hydrocarbons and chlorinated aromatic hydrocarbons.		-20 0	Maximum and Minimum Temperatures are the limits for which the operated. Temperatures coupled with pressure affect the longevit components. Maximum life should not be expected at the extreme temperature results.	
NITRILE: 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	temperature ranges.	
			Metals:	
			ALLOY C: Equal to ASTM494 CW-12M-1 specification for nickel a	
NYLON: 6/6 High strength and toughness over a wide tem- perature range. Moderate to good resistance to fuels, oils and chemicals.	180°F 82°C	32°F 0°C	STAINLESS STEEL: Equal to or exceeding ASTM specification A sion resistant iron chromium, iron chromium nickel and nickel bas general applications. Commonly referred to as 316 Stainless Stee	
			For specific applications, always consul	



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HMW PE: A thermoplastic that is highly resistant to a broad inge of chemicals. Exhibits outstanding abrasion and impact sistance, along with environmental stress-cracking resistance.	180°F 82°C	-35°F -37°C			
RETHANE: Shows good resistance to abrasives. Has poor sistance to most solvents and oils.	150°F 66°C	32°F 0°C			
IRGIN PTFE: (PFA/TFE) Chemically inert, virtually impervious. ery few chemicals are known to chemically react with PTFE; olten alkali metals, turbulent liquid or gaseous fluorine and a few uoro-chemicals such as chlorine trifluoride or oxygen difluoride hich readily liberate free fluorine at elevated temperatures.	220°F 104°C	-35°F -37°C			
aximum and Minimum Temperatures are the limits for which these materials can be berated. Temperatures coupled with pressure affect the longevity of diaphragm pump omponents. Maximum life should not be expected at the extreme limits of the mperature ranges.					
letals:					
LLOY C: Equal to ASTM494 CW-12M-1 specification for nickel and nickel alloy.					
TAINLESS STEEL: Equal to or exceeding ASTM specification A743 CF-8M for corro- on resistant iron chromium, iron chromium nickel and nickel based alloy castings for					

Stainless Steel in the pump industry. For specific applications, always consult the Chemical Resistance Chart.

NOTE: See service manual for ATEX details.

(Ex)

32°F

0°C

0°F

-18°C

-40°F

-40°C

180°F

82°C

250°F

121°C

275°F

135°C