EH2 HIGH PRESSURE PUMP TECHNICAL DATA SHEET

SERIES

HIGH PRESSURE PUMPS

Deliver discharge pressure twice the inlet pressure, up to 250 PSI (17.2 BAR)

PERFORMANCE

SUCTION / DISCHARGE PORT SIZE • 2" NPT

CAPACITY

0 to 74 gallons per minute (0 to 280 LPM)

AIR DISTRIBUTION VALVE

No-lube, no-stall design

SOLIDS-HANDLING

Up to .25 in. (6.5mm)

HEADS UP TO

250 psi or 577 ft. of water (17 Kg/cm2 or 176 meters)

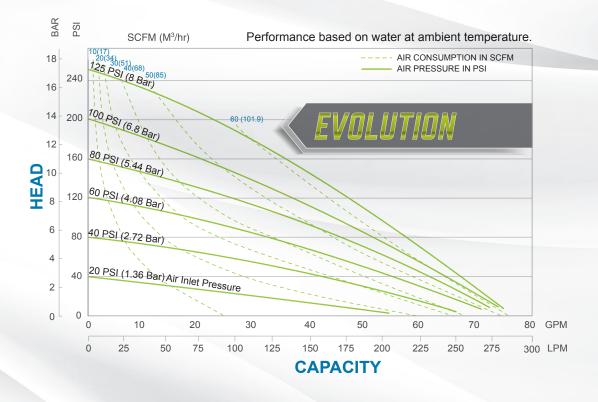
MAXIMUM OPERATING PRESSURE • 125 psi (8.6 bar)

DISPLACEMENT/STROKE

.36 Gallon / 1.3 liter

WEIGHTS

- Cast Iron 172lbs. (78kg)
- Stainless Steel 176 lbs. (80kg)





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.



USE ONLY GENUINE SANDPIPER PARTS

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."

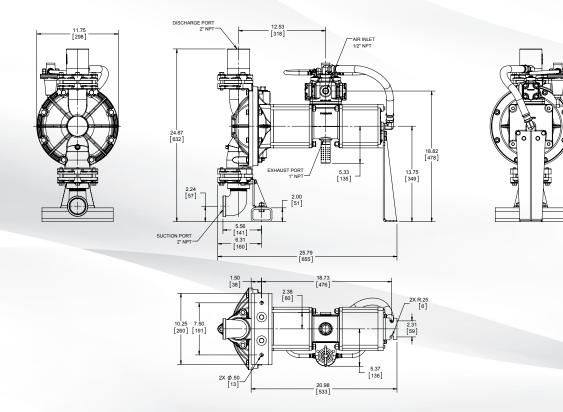




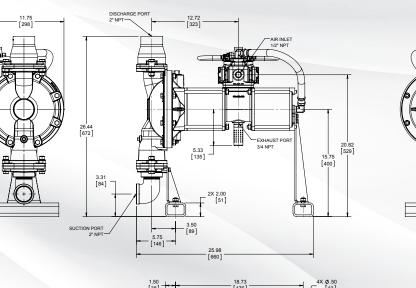


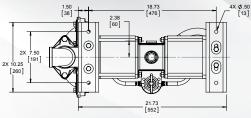
DIMENSIONS

EH2-M, Cast Iron Wetted Dimensions are ± .13" (3mm). Figures in parenthesis = millimeters



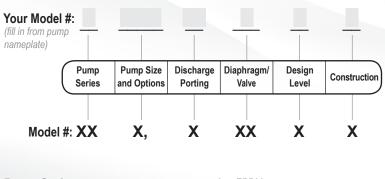
EH2-M, Stainless Wetted Dimensions are ± .13" (3mm). Figures in parenthesis = millimeters







EXPLANATION OF PUMP NOMENCLATURE



Pump Series EH High Pressure

Pump Size & Options

Discharge Porting Position

T Top

Diaphragm Check Valve Materials

- B Nitrile
- C FKM with PTFE
- GN Neoprene Backup with PTFE Overlay
- and PTFE Check Balls GS Santoprene Backup with PTFE overlay

I EPDM

- N Neoprene
- S Santoprene

V FKM (Stainless Wetted Only)

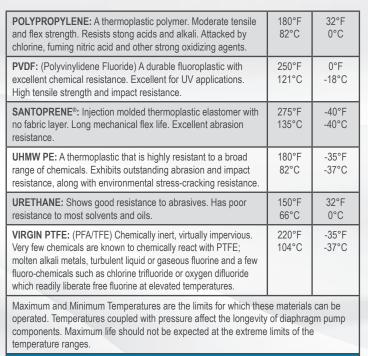
Design Level

Construction

- I Cast Iron Wetted
- S Stainless

MATERIALS

Material Profile:	Operating Temperatures:	
CAUTION! Operating temperature limitations are as follows:	Max.	Min.
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
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
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 FKM.	350°F 177°C	-40°F -40°C
HYTREL®: Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C
NEOPRENE: All purpose. Resistance to vegetable oils. Gener- ally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters and nitro hydrocarbons and chlorinated aromatic hydrocarbons.	200°F 93°C	-10°F -23°C
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
NYLON: 6/6 High strength and toughness over a wide temperature range. Moderate to good resistance to fuels, oils and chemicals.	180°F 82°C	32°F 0°C



Metals:

ALLOY C: Equal to ASTM494 CW-12M-1 specification for nickel and nickel alloy.

NOTE: See service manual for ATEX details.

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 the Chemical Resistance Chart.



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

SH2 HIGH PRESSURE PUMP TECHNICAL DATA SHEET

SERIES

HIGH PRESSURE PUMPS

Deliver discharge pressure twice the inlet pressure, up to 250 PSI (17.2 BAR)

PERFORMANCE

SUCTION / DISCHARGE PORT SIZE • 2" NPT

CAPACITY

• 0 to 120 gallons per minute (0 to 454 LPM)

AIR DISTRIBUTION VALVE

No-lube, no-stall design

SOLIDS-HANDLING

Up to 1.8 in. (46.8mm)

HEADS UP TO

250 psi or 577 ft. of water (17 Kg/cm2 or 176 meters)

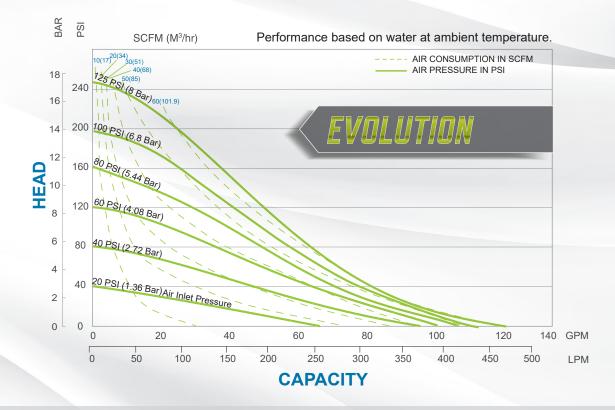
MAXIMUM OPERATING PRESSURE • 125 psi (8.6 bar)

DISPLACEMENT/STROKE

.50 Gallon / 1.8 liter

WEIGHTS

- Aluminum 140 lbs. (63 kg)
- Cast Iron 155 lbs. (70 kg)





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.



USE ONLY GENUINE SANDPIPER PARTS

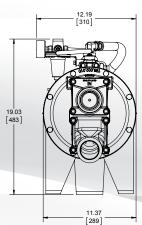
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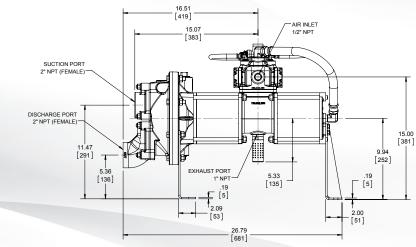


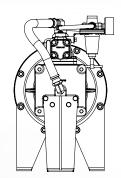


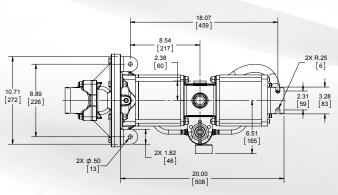


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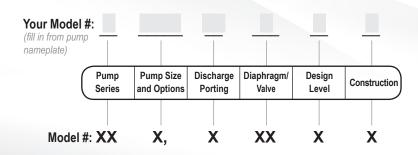








EXPLANATION OF PUMP NOMENCLATURE



Pump Series SH High Pressure-Flap	Design Level 7
Pump Size & Options 2 2" Discharge Porting Position	Construction A Aluminum
D Down	I Cast Iron
Diaphragm Check Valve Materials B Nitrile I EPDM	S

- Neoprene Ν
- v FKM

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Material Profile:		perating POLYPROPYLENE: A thermoplastic polymer. Moderate tensile and flex strength. Resists stong acids and alkali. Attacked by		180°F 82°C	32°F 0°C
CAUTION! Operating temperature limitations are as follows:		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	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.	250°F 121°C	0°F -18°
oxidizing agents.			SANTOPRENE®: Injection molded thermoplastic elastomer with	275°F	-40°
EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and	280°F 138°C	-40°F -40°C	no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	135°C	-40°
alcohols.			UHMW PE: A thermoplastic that is highly resistant to a broad	180°F	-35°
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	range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	82°C	-37°
				URETHANE: Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150°F 66°C
FKM.			VIRGIN PTFE: (PFA/TFE) Chemically inert, virtually impervious.	220°F 104°C	-35°
HYTREL [®] : Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C	Very few chemicals are known to chemically react with PTFE; molten alkali metals, turbulent liquid or gaseous fluorine and a few		-37°
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.			Maximum and Minimum Temperatures are the limits for which they operated. Temperatures coupled with pressure affect the longevity components. Maximum life should not be expected at the extreme	of diaphrag	gm pum
NITRILE: General purpose, oil-resistant. Shows good solvent,	190°F	-10°F	temperature ranges.		
oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated	88°C	-23°C	Metals:		
hydrocarbons and nitro hydrocarbons.			ALLOY C: Equal to ASTM494 CW-12M-1 specification for nickel a	and nickel al	loy.
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 A743 CF-8M for corr sion resistant iron chromium, iron chromium nickel and nickel based alloy castings fo general applications. Commonly referred to as 316 Stainless Steel in the pump indus		



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NOTE: See service manual for ATEX details.

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