WARREN RUPP, INC.

Quality System ISO9001 Certified

Environmental Management System ISO14001 Certified

IDEX FLUID & METERING

MARATHON® A WARREN RUPP, INC. BRAND

See pages 2, 13 and 14 for ATEX ratings.

Model MPB¼ Type 3

Air-Operated Double Diaphragm Pump

Engineering, Performance & Construction Data

INTAKE/DISCHARGE PIPE SIZE	CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO	DISPLACEMENT/STROKE
¼" NPT (internal) ½" NPT (external)	0 to 4 gallons per minute (0 to 15 liters per minute)	No-lube, no-stall design	Up to $^{1}/_{32}$" (1mm)	100 psi or 231 ft. of water (7 bar or 70 meters)	.01 US Gallons / .04 liters

CAUTION! ***Operating temperature limitations are as follows:***

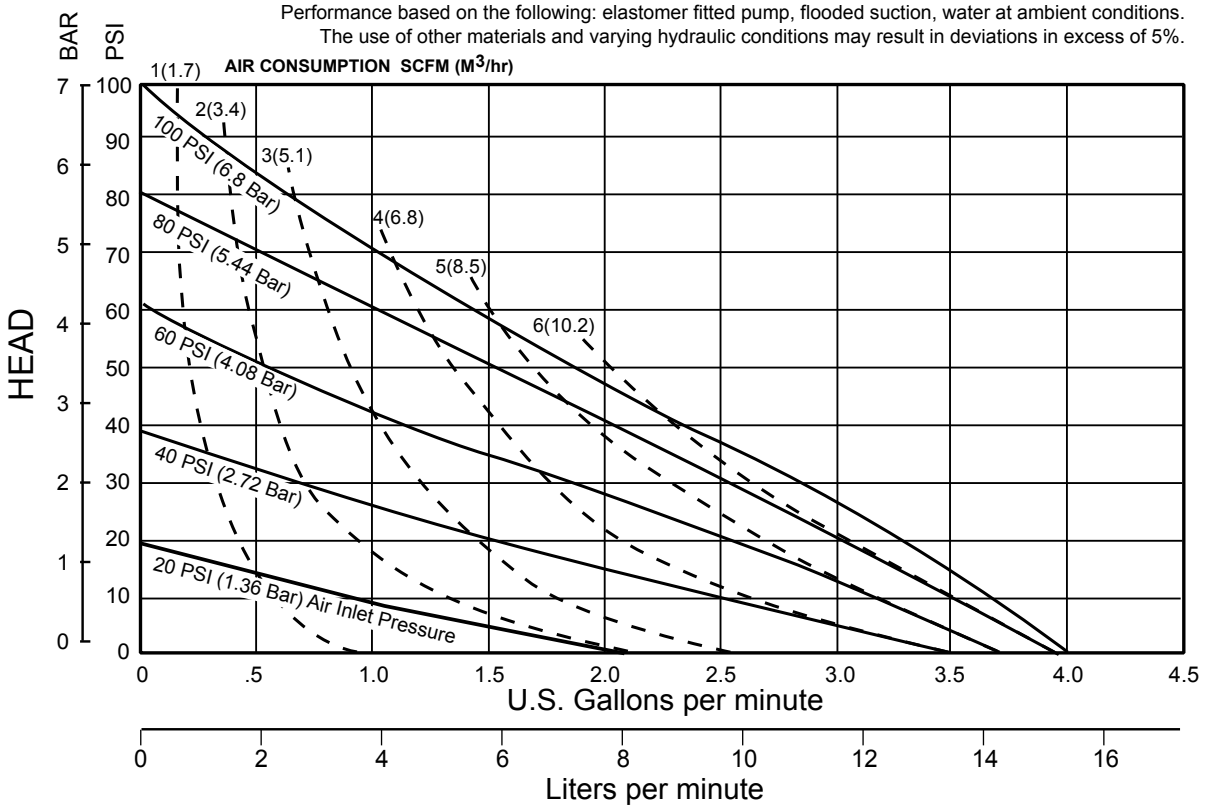
Materials	Operating Temperatures Maximum	Minimum
Santoprene® Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C
Hytrel®: Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C
Virgin PTFE Chemically inert, virtually impervious. Very few chemicals are known to react chemically 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.	220°F 104°C	-35°F -37°C
PVDF	250°F 121°C	0°F -18°C
Polypropylene	180°F 82°C	32°F 0°C
Conductive Acetal	190°F 88°C	-20°F -29°C

For specific applications, always consult the Warren Rupp "Chemical Resistance Chart"

CAUTION: Nonmetallic pumps and plastic components are not UV stabilized. Ultraviolet radiation can damage these parts and negatively affect material properties. Do not expose to UV light for extended periods of time.

Maximum and Minimum Temperatures are the limits for which these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.

Performance based on the following: elastomer fitted pump, flooded suction, water at ambient conditions.
The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.



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