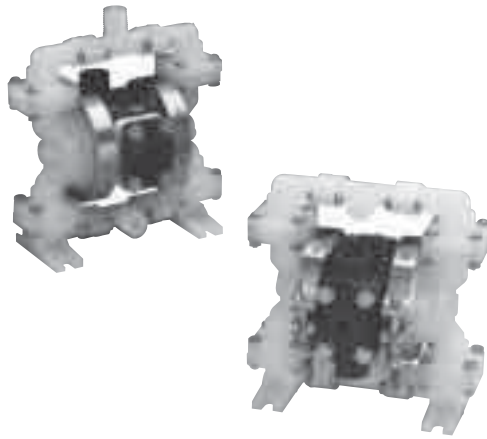


**WARREN
RUPP®**

Quality System
ISO9001 Certified

Environmental
Management System
ISO14001 Certified

IDEX
IDEX CORPORATION



MARATHON®

**BALL VALVE
MP01P Type 3**

**Air-Powered
Double-Diaphragm
Plastic Pump**

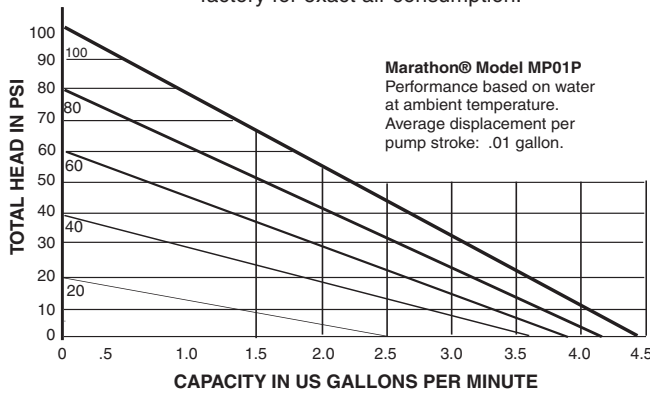
ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA

INTAKE/DISCHARGE SIZE	ADJUSTABLE FLOW	AIR VALVE	SOLIDS HANDLING	MAXIMUM SUCTION LIFT	MAXIMUM VISCOSITY	HEADS UP TO
¼" (6mm) NPT (internal threads) ½" (13mm) NPT (external threads)	0 to 4 gallons per minute (0 to 15 liters per minute)	No-lube, no-stall design.	Up to ½" (1 mm)	Dry 5.83 ft. (1.78m.) Wet 25.5 ft. (7.77m.)	10,000 SSU 2200 CPS	100 psi or 230 ft. of water (7 Kg/cm ² or 70 meters)

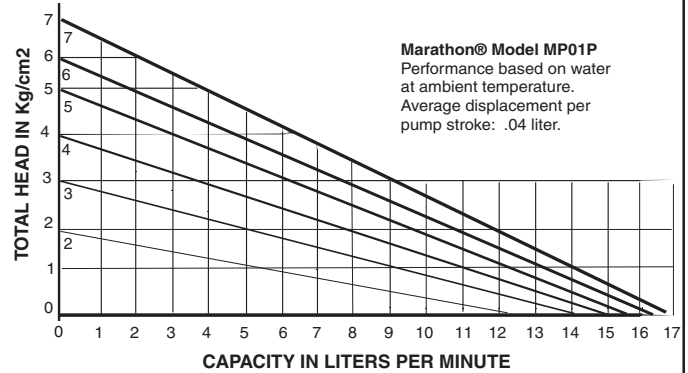
PERFORMANCE CURVES

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

Maximum air consumption for any point on the performance curve is 6 SCFM. Contact the factory for exact air consumption.



Maximum air consumption for any point on the performance curve is 3 LPS. Contact the factory for exact air consumption.



MATERIALS OF CONSTRUCTION

Model MP01P Type	Check Valve Material	Diaphragm Material	Wet End Material	Option	--	Air End Material	Design Level	Porting	Option	Shipping Weight (lbs)
SSP0-P3B0	S	S	P	0	-	P	3	B	0	4
TSP0-P3B0	T	S	P	0	-	P	3	B	0	4
TTPO-P3B0	T	T	P	0	-	P	3	B	0	4
SSK0-P3B0	S	S	K	0	-	P	3	B	0	5
TSK0-P3B0	T	S	K	0	-	P	3	B	0	5
TTK0-P3B0	T	T	K	0	-	P	3	B	0	5
SSC0-P3B0	S	S	C	0	-	C	3	B	0	4
TSC0-P3B0	T	S	C	0	-	C	3	B	0	4
TTC0-P3B0	T	T	C	0	-	C	3	B	0	4
SSP0-P3B1	S	S	P	0	-	P	3	B	1	4
SSP0-P3B2	S	S	P	0	-	P	3	B	2	4
SSP0-P3B3	S	S	P	0	-	P	3	B	3	4
SSP0-P3B4	S	S	P	0	-	P	3	B	4	4
SSP0-P3B5	S	S	P	0	-	P	3	B	5	4
SSP0-P3B6	S	S	P	0	-	P	3	B	6	4
SSP0-P3B7	S	S	P	0	-	P	3	B	7	4
SSP0-P3B8	S	S	P	0	-	P	3	B	8	4

Horizontal suction and vertical discharge are standard. All combinations of suction and discharge are available

Meanings of Abbreviations:

C = Conductive Acetal
K = PVDF
P = Polypropylene
T = Virgin PTFE
S = Santoprene®

PORTING
B = ¼" NPT Internal ½" NPT External Ports

OPTIONS

1= Solinoid Kit with 24VDC Coil
2= Solinoid Kit with 24VDC Explosion Proof Coil
3= Solinoid Kit with 24VAC/12VDC Coil
4= Solinoid Kit with 24VAC/12VDC Explosion Proof Coil

5= Solinoid Kit with 110VAC Coil
6= Solinoid Kit with 110VAC Explosion Proof Coil
7= Solinoid Kit with 220VAC Coil
8= Solinoid Kit with 220VAC Explosion Proof Coil

Santoprene® is a registered tradename of Monsanto Corp.
Marathon® and Warren Rupp® are registered tradenames of Warren Rupp, Inc.

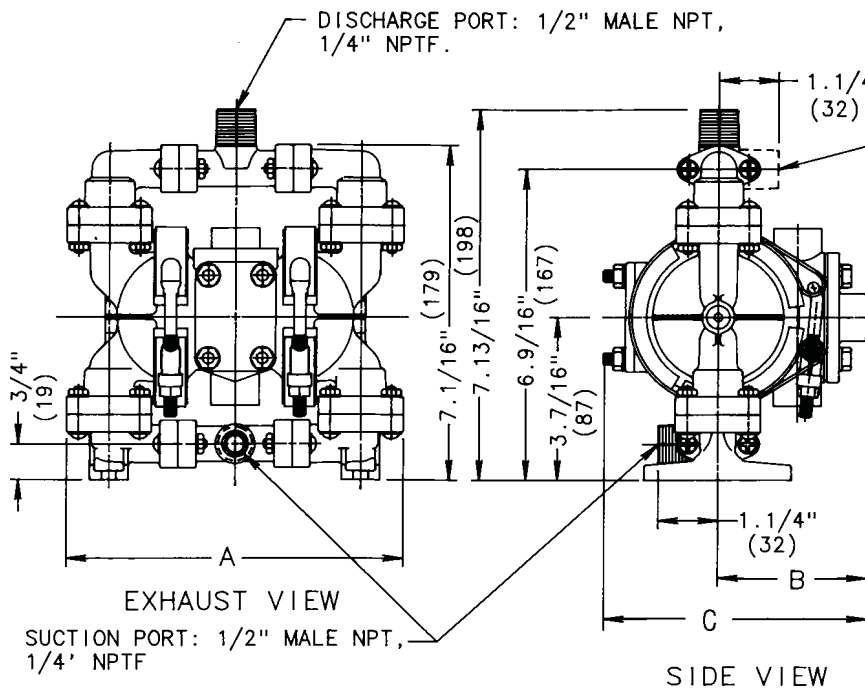
MPO1P BALL VALVE

MARATHON®

MATERIALS	Operating Temperatures		
	Maximum*	Minimum*	Optimum**
TEFLON® Chemically inert, virtually impervious. Very few chemicals are known to chemically react with Teflon®: 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.	212°F+ 100°C+	-35°F -37°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	Insufficient data available
For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin.	*Definite reduction in service life. **Minimal reduction in service life at ends of range.		

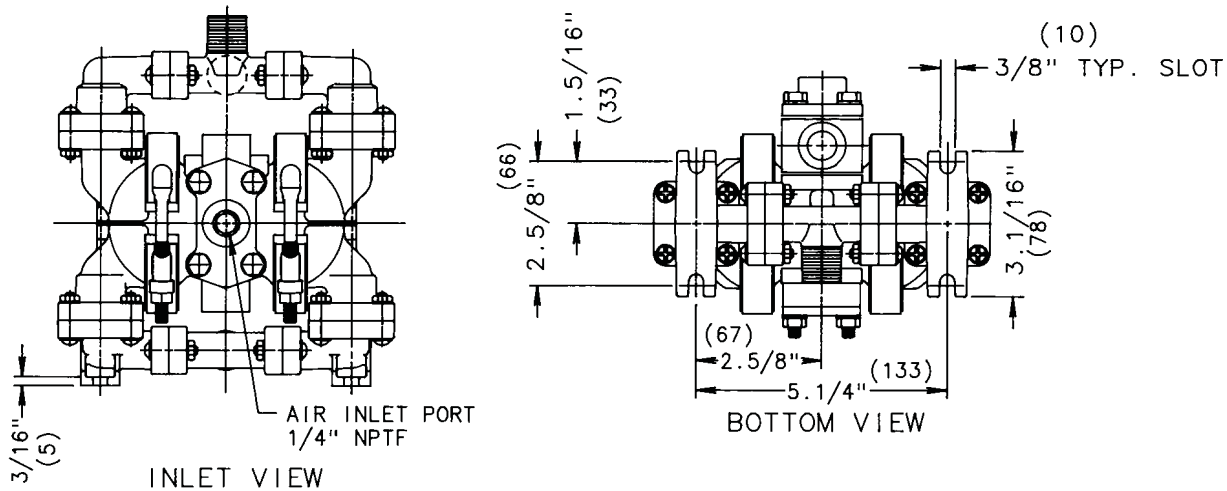
Dimensions are ± 1/8"
Figures in parenthesis = millimeters

Dimension	A	B	C
Standard Pump	7" (178)	3.1/8" (79)	5.1/2" (140)
Pulse Output Kit	9" (229)	3.9/16" (90)	5.15/16" (151)



SERVICE AND ACCESSORY KITS

- 031-107-000 Main Air Valve Body Assembly
- 031-107-503 Main Air Valve Body Assembly (Conductive Acetal only)
- 031-101-000 Pilot Valve Assembly
- 475-145-000 Air Exhaust Conversion Kit
- 475-154-000 Air Exhaust Conversion Kit (Conductive Acetal only)
- 475-149-520 Pail Transfer Kit in PVDF
- 475-149-552 Pail Transfer Kit in Polypropylene
- 476-117-354 Wetted End Kit Santoprene® Diaphragms & Balls
- 476-117-600 Wetted End Kit Teflon® Diaphragms & Balls
- 476-117-644 Wetted End Kit Santoprene® Diaphragms & Teflon® Balls
- 476-129-000 Air End Kit



3/4" NPT(F) AND 1/2" NPT(M) SUCTION AND DISCHARGE • 1/4" NPT(F) AIR INLET PORT