VERSA-MATIC®

Versa-Matic

Service & Operating Manual

Original Instructions

3" Elima-Matic Bolted Non-Metallic

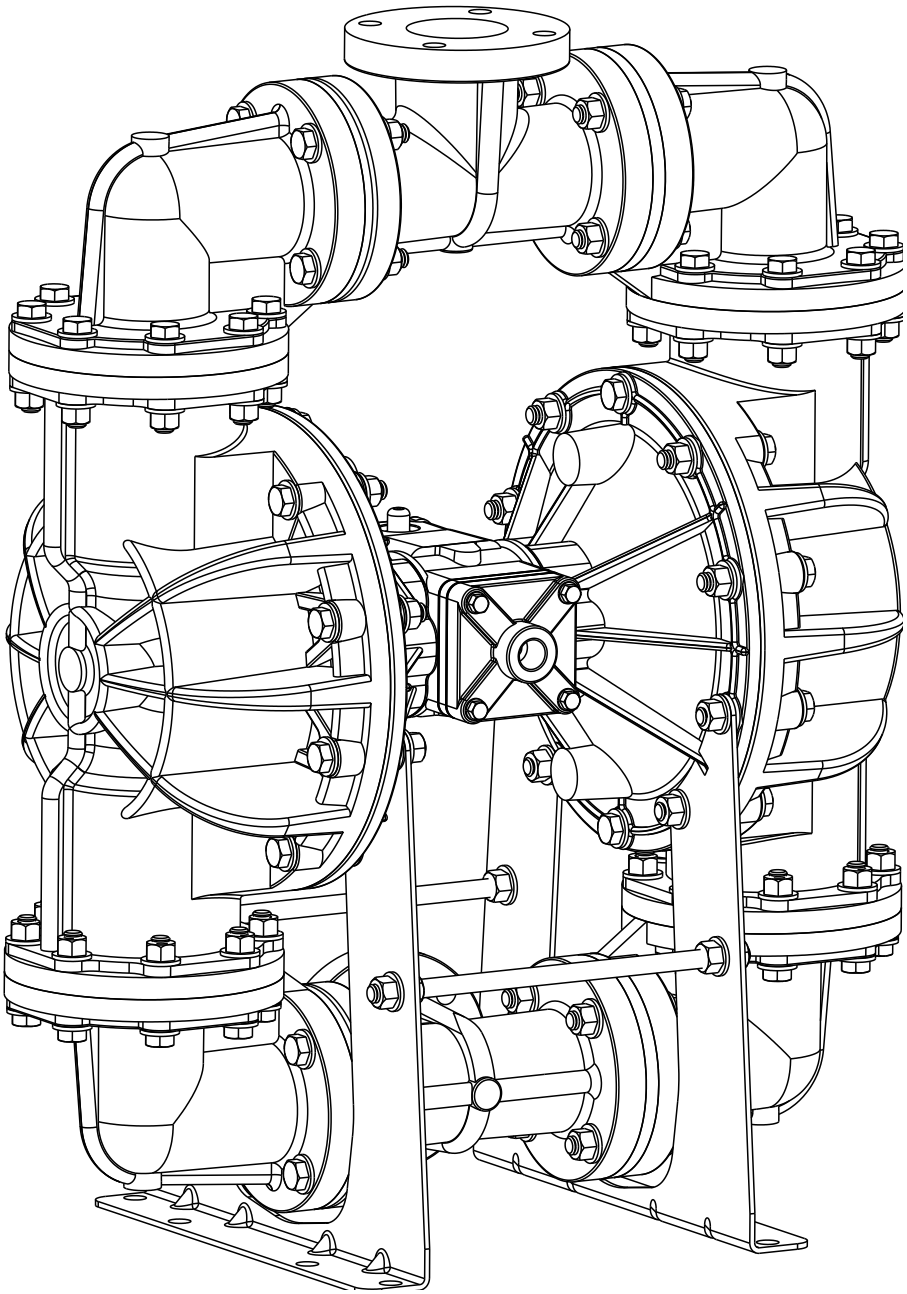
with Metallic Center Section

E3

CE

E3 Non-Metallic Pumps

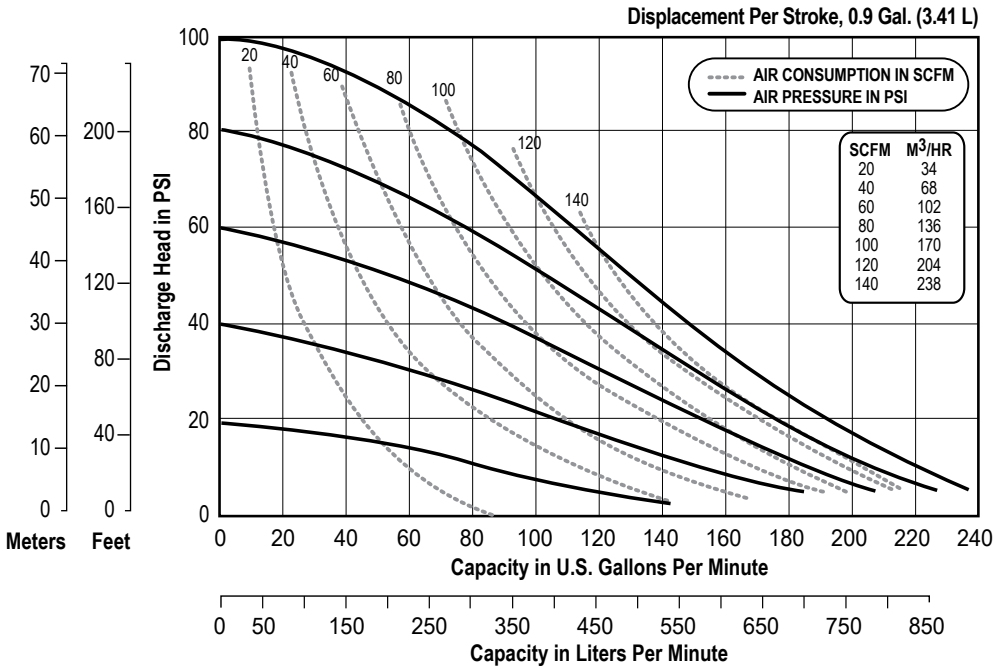
- Polypropylene
- PVDF



Performance

E3 - 3" Non-Metallic Bolted Pump – Metallic Center
ELASTOMERIC AND TPE FITTED

Flow Rate
Adjustable to . . . . . 0-238 gpm (901 lpm)
Port Size
Suction . . . . . .3" ANSI, 150 Class (DIN 50)
Discharge . . . . .3" ANSI, 150 Class (DIN 50)
Air Inlet . . . . . 3/4" NPT
Air Exhaust . . . . . 1" NPT
Suction Lift
Dry . . . . . .20' (6.1 m)
Wet . . . . . .25' (7.6 m)
Max Solid Size (Diameter)
. . . . . .0.71" (18 mm)
Max Noise Level . . . . . 96 dB(A)
Shipping Weights
Polypropylene . . . . . 231 lbs (105 kg)
PVDF . . . . . 315 lbs (143 kg)



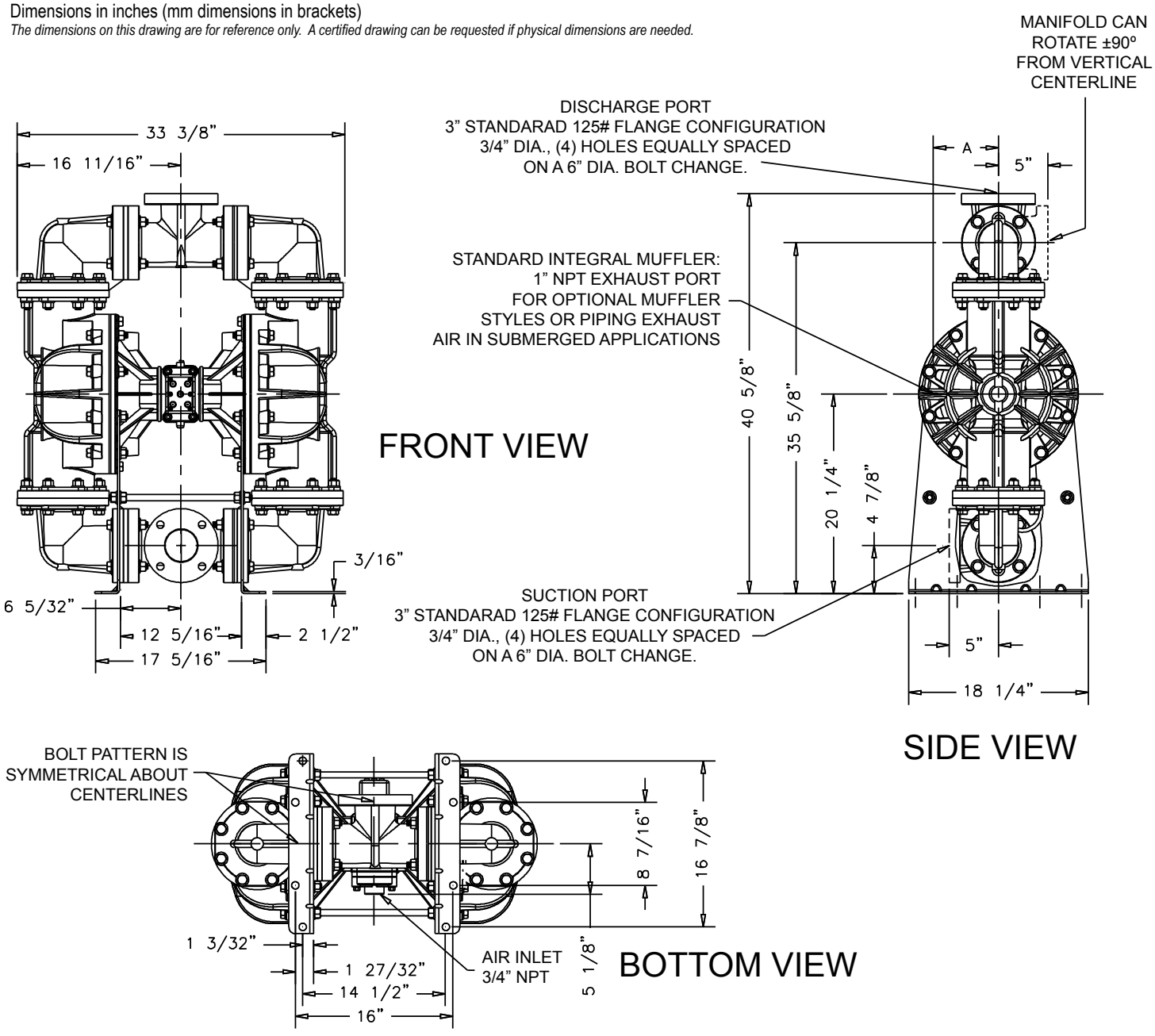
NOTE: Performance based on the following: elastomeric fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

Dimensional Drawings

E3 Non-Metallic Bolted

Dimensions in inches (mm dimensions in brackets)

The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.



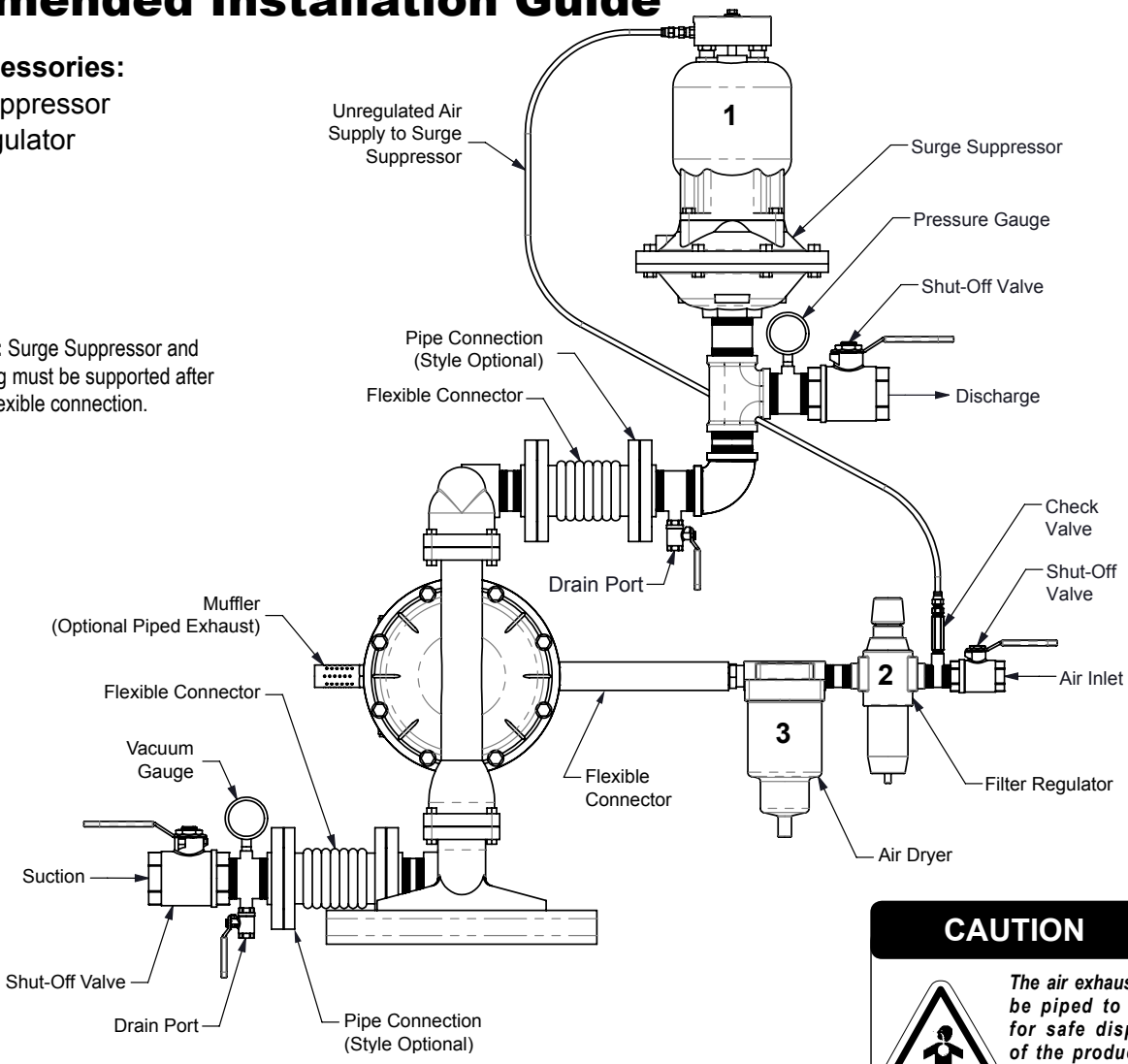
Dimension	A
Standard Pump	6 9/16"
Pulse Output Kit	6 9/16"
Sound Dampening Muffler	13 3/4"
Mesh Muffler	8 13/16"

Note: Porting Flanges are also available with PN10 80mm DIN bolting configuration.

Recommended Installation Guide

Available Accessories:

1. Surge Suppressor
2. Filter/Regulator
3. Air Dryer



Note: Surge Suppressor and Piping must be supported after the flexible connection.

CAUTION

The air exhaust should be piped to an area for safe disposition of the product being pumped, in the event of a diaphragm failure.

Installation And Start-Up

Locate the pump as close to the product being pumped as possible. Keep the suction line length and number of fittings to a minimum. Do not reduce the suction line diameter.

Air Supply

Connect the pump air inlet to an air supply with sufficient capacity and pressure to achieve desired performance. A pressure regulating valve should be installed to insure air supply pressure does not exceed recommended limits.

Air Valve Lubrication

The air distribution system is designed to operate WITHOUT lubrication. This is the standard mode of operation. If lubrication is desired, install an air line lubricator set to deliver one drop of SAE 10 non-detergent oil for every 20 SCFM (9.4 liters/sec.) of air the pump consumes. Consult the Performance Curve to determine air consumption.

Air Line Moisture

Water in the compressed air supply may cause icing or freezing of the exhaust air, causing the pump to cycle erratically or stop operating. Water in the air supply can be reduced by using a point-of-use air dryer.

Air Inlet And Priming

To start the pump, slightly open the air shut-off valve. After the pump primes, the air valve can be opened to increase air flow as desired. If opening the valve increases cycling rate, but does not increase the rate of flow, cavitation has occurred. The valve should be closed slightly to obtain the most efficient air flow to pump flow ratio.

VERSA-MATIC®

Composite Repair Parts Drawing