



Versa-Surge

Surge Suppression for Air-Driven Diaphragm Pumps



- Virtually surge-free flows
- Steadier pressures
- Less vibration and noise
- Simple installation
- Variety of sizes and materials
- Automatically self-charging and self-venting

OPERATING PRINCIPLE

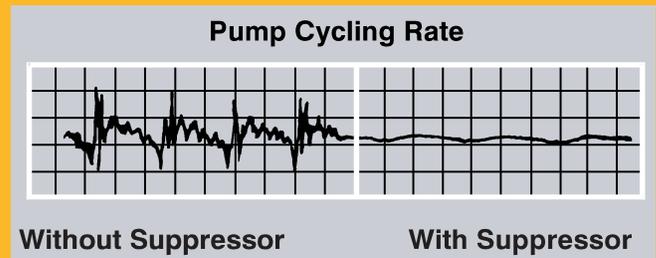
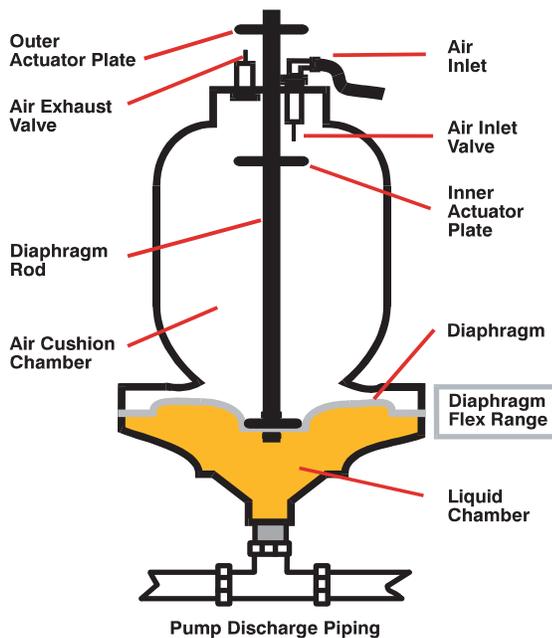
An air cushion is established by liquid pressure pushing the diaphragm upward. This allows air to enter the chamber. The balancing air cushion keeps the diaphragm centered at mid stroke.

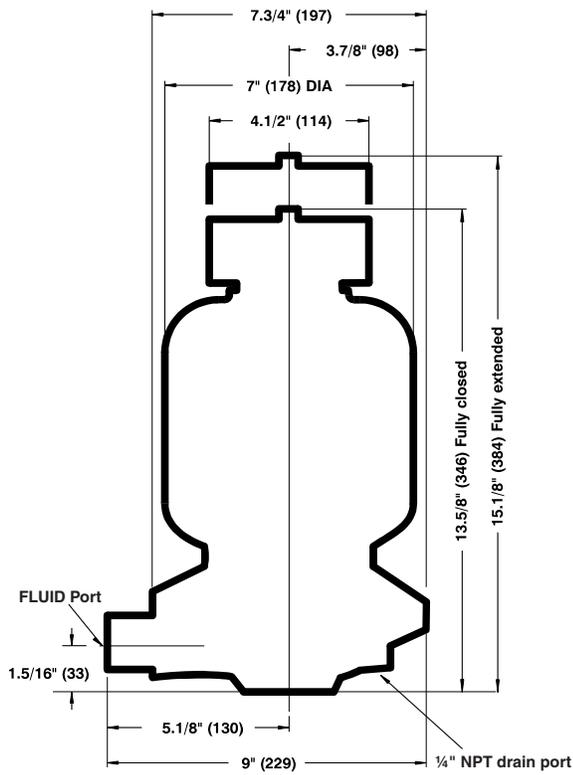
During operation, the diaphragm(s) flex within the mid-range position, absorbing and equalizing discharge surge.

If pressure changes in the system, the air cushion pressure compensates, automatically increasing or decreasing. If liquid pressure is released, air in the suppressor chamber exhausts into the atmosphere.

Properly sized and installed, Versa-Surge provides virtually surge-free discharge flow.

Visit our website! www.versamatic.com



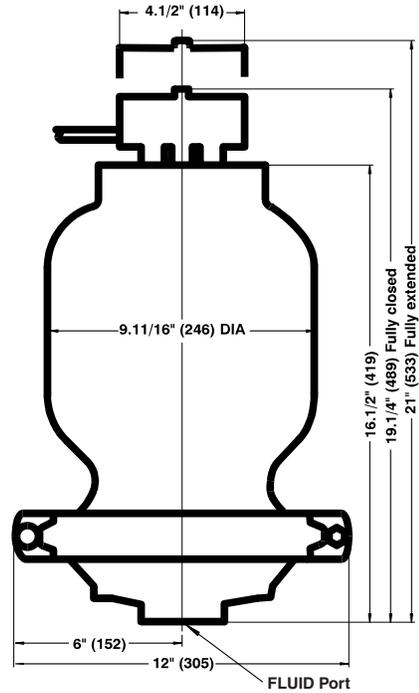


MODEL VTA1

Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting
 FLUID Port - 1" NPT

MODEL VTA25

Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting
 FLUID Port - 1" BSP
 tapered thread

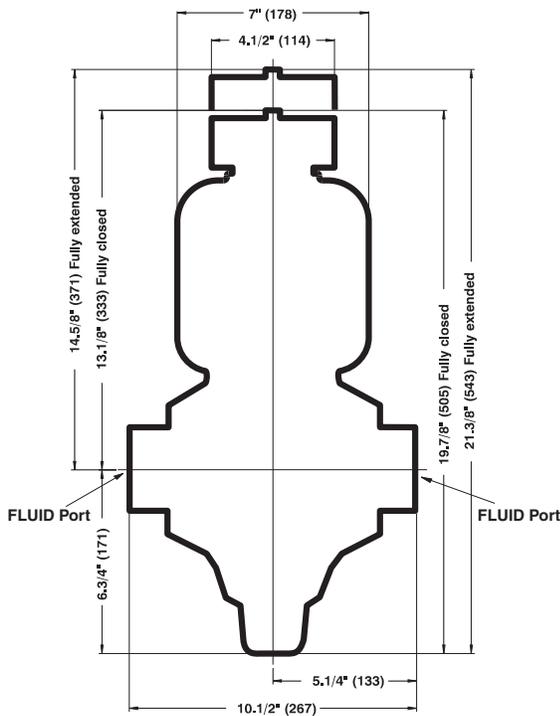


MODEL VTA2

Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting
 FLUID Port - 2" NPT

MODEL VTA50

Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting
 FLUID Port - 2" BSP
 tapered thread



MODEL VTD1 1/2

Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting
 FLUID Port - 1 1/2" NPT

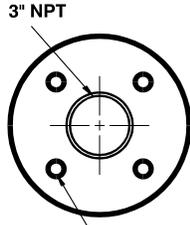
MODEL VTD40

Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting
 FLUID Port - 1 1/2" BSP
 tapered thread

All dimensions +/- 1/8"
 (millimeters)

MODEL VTA3

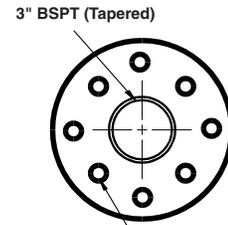
Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting



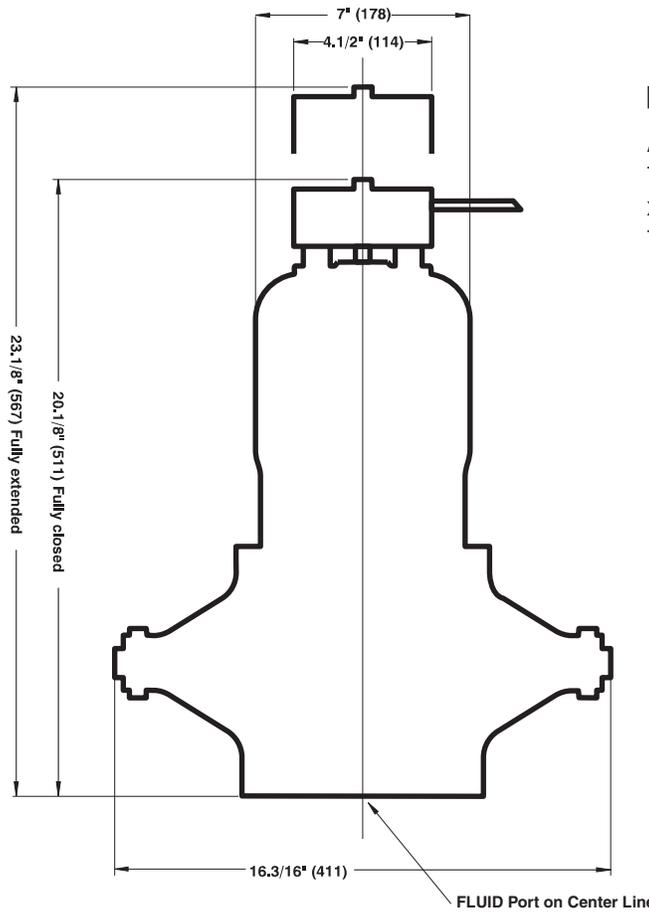
3" 150# FF ANSI-style flange
 5/8-11 unc. 2B
 4 holes equally spaced on
 a 6" diameter bolt circle

MODEL VTA80

Air Inlet
 1/4" Flexible hose
 x 13 3/8" long supplied
 1/4" NPT (external) fitting



3" BSPT (Tapered)
 PN10 80mm DIN Flange
 M16x2 8 holes on a
 160mm diameter Bolt Circle



All dimensions +/- 1/8"
 (millimeters)

Installation Guidelines

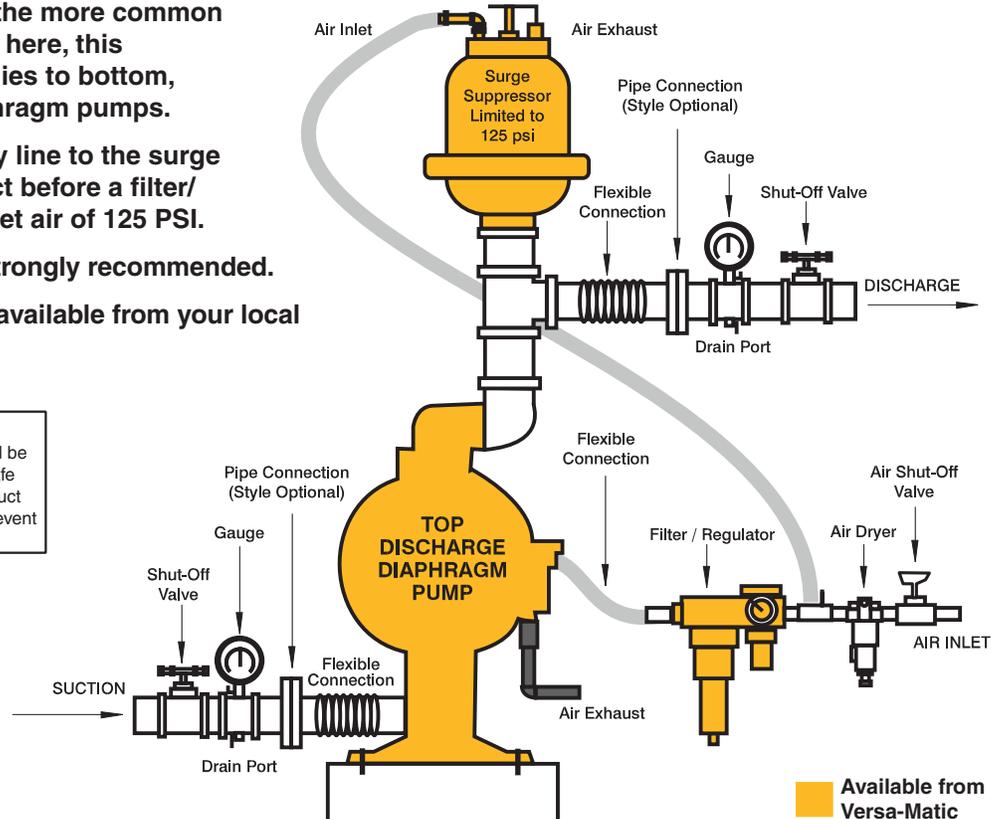
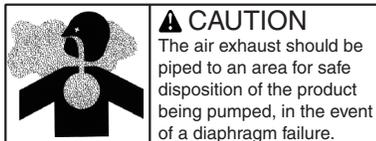
For best results, the factory recommends installing the surge suppressor on the discharge side of the pump. Though the more common top-ported pump is shown here, this recommendation also applies to bottom, side and dual-ported diaphragm pumps.

The compressed air supply line to the surge suppressor should connect before a filter/regulator unit limited to inlet air of 125 PSI.

Flexible connections are strongly recommended.

Items shown in yellow are available from your local Versa-Matic Distributor.

VERSA-MATIC PUMP®



Available from
 Versa-Matic

