

Retro  
**Porta - Milk**  
**Model-STRS**



**Set-Up Instructions**

Replacement Parts Available at:  
[SchmitzerPortableMilkers.com](http://SchmitzerPortableMilkers.com)

## Congratulations on the purchase of this Milker

In the first few pages of this manual we will be addressing the set-up and adjustments of the retro-fitted extended tube version of the well known Surge milker. This configuration allows for the milking of one goat, two goats or cow milking..

The pictures in this manual are for reference only and may not be identical to the unit you have. Please keep this manual in a safe place, make sure info below is complete. If you should need parts or service in the future, include the information below with your inquiry / order. Thank-you

Customer Name \_\_\_\_\_

Purchase Date \_\_\_\_\_ Invoice# \_\_\_\_\_

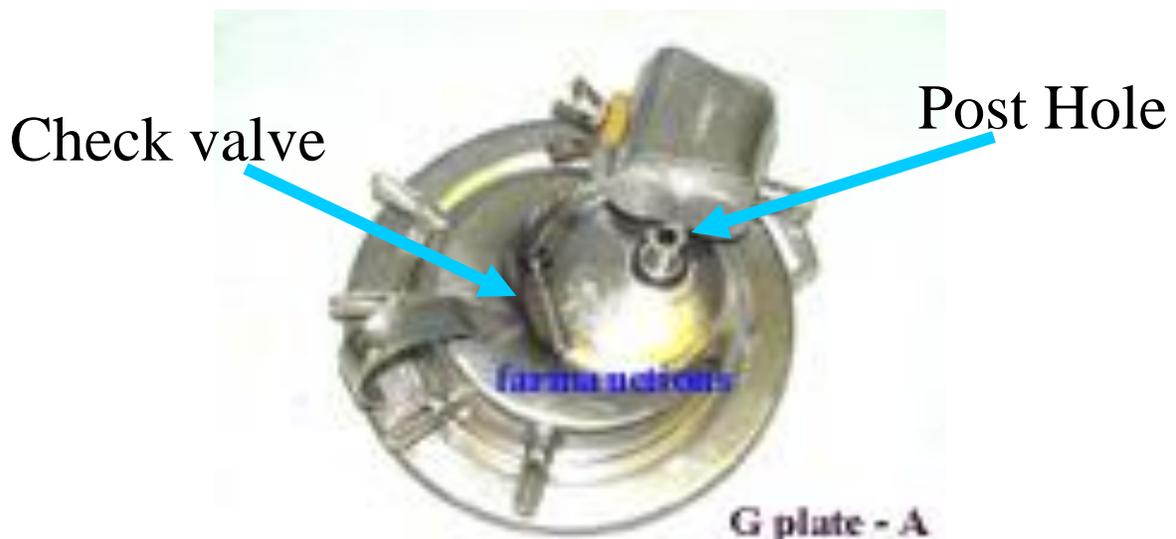
Pulsator Ser# \_\_\_\_\_ Bucket# \_\_\_\_\_

Style - Dairy \_\_\_\_ Goat \_\_\_\_ Other \_\_\_\_

# Set-Up Tips

To remove pulsator, turn pulsator  $\frac{1}{4}$  turn left or right and lift off. Under pulsator you will find the check valve and o-ring on C models (S models do not use an o-ring) Notice Check valve lying on lid to left of post in plate A. This goes in post hole with rubber tip facing upward.

NOTE: newer check valves are oversized to prevent them from accidentally falling out. On these you will need to pull off the rubber tip, insert or remove check valve and then snap tip back on. Milker will not operate without this valve. Some older lids come with permanent all metal check valves.



# Set-up Tips Continued

Lid gasket should be installed with ridge on edge of gasket facing down towards milker. However if you are having problems with vacuum loss or gasket is nearing end of life, it can be flipped upside down. You can also check to see if check valve is in place without removing pulsator, by turning lid over. Check Valve will show on bottom side.



# Set-up Tips Continued

Be sure that all hoses are pushed on fully. Make sure when starting pump that milk tube valves are closed.

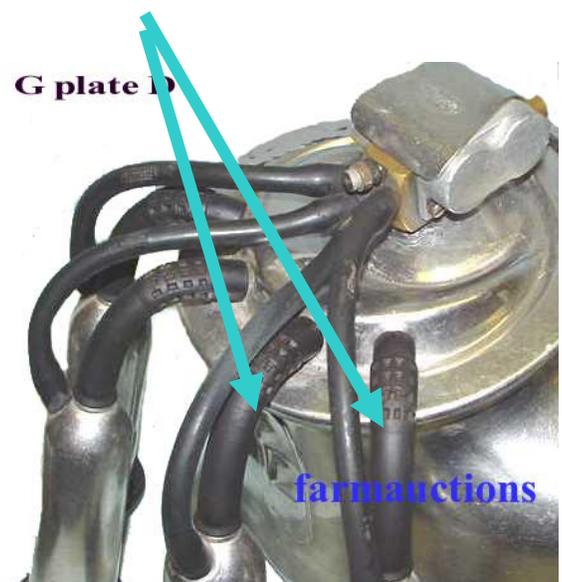
This is necessary, as the natural vacuum seal created with the dairy short tube inflation's (bottom right pic) is lost by adding extended milk tubes.

If you are milking only one goat at a time, just leave two valves closed. Or if you are only milking 3 teats on a cow, leave one valve closed.

Milk tube valves



Short tube automatically seals bucket when hanging down.



# Vacuum Adjustment



**Vacuum reading on pump gauge will fluctuate normally about 5". This is due to gauge reacting to air let in pulsation tube by pulsator to create the milk cycle in the teat cup. Actual vacuum level should be determined by reading the "high" reading on the gauge. Vacuum level in bucket does not fluctuate. This can be seen by inserting test gauge in end of teat cup while bucket is operating.. With green valve open, reading will be stable, this is vacuum level inside bucket and at the teat itself. With green valve closed, vacuum reading will fluctuate as gauge is reacting to pulsation line level.**

**To adjust vacuum level turn adjustment on vacuum pump relief or regulating valve, see pump manual for specific instruction.**

**Typical vacuum level for goats is 10-14" for cow is 12-15" however this can vary by breed or individual animal.**

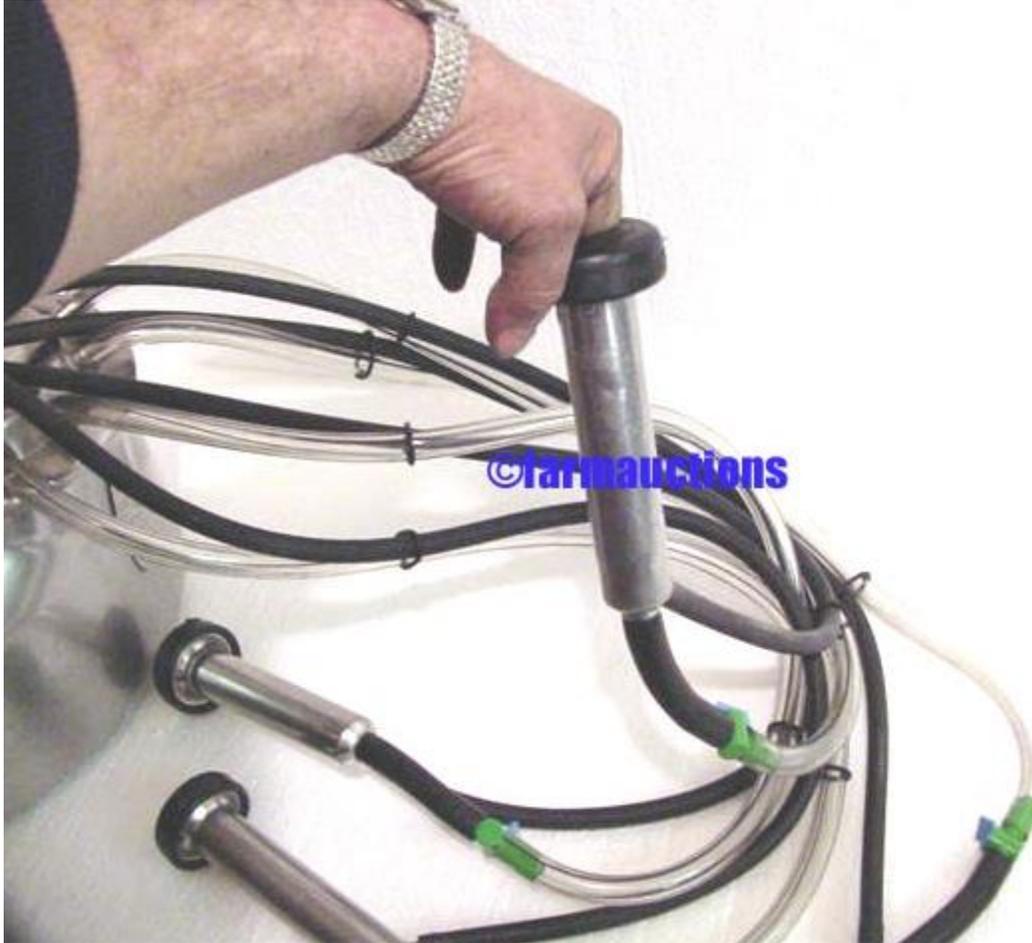
**If milking both cow and goat with same milker, many folk will use an inbetween setting for both vacuum level and pulsation rate, however both are easily adjusted for more specific settings.**

# PPM Adjustment

Using adjustment knob on pulsator

.In = slower

Out = faster



Count number of squeezes on finger.

For example: 60 squeezes in 1 minute would equal 60 ppm. Be sure milk tube valve is open and other valves closed.

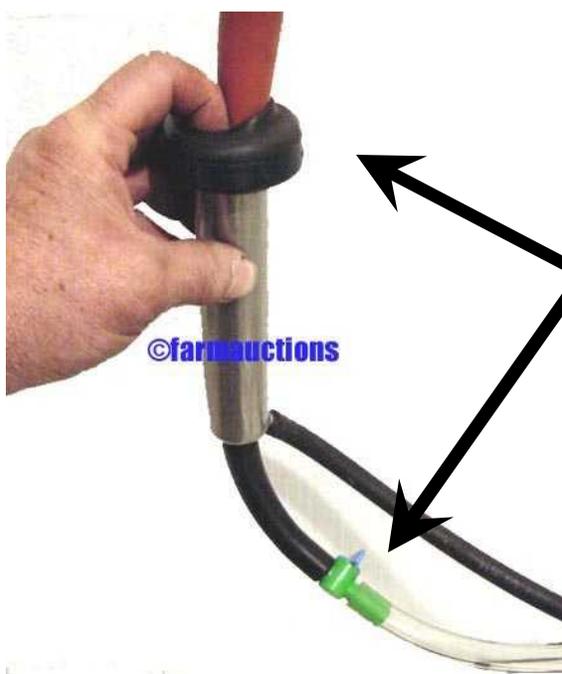
Typical pulsation rate for goats is 65 to 85 ppms, cow is 55 to 65

If milking both cow and goat you may want to use setting of 65 for both.

# Operation Tips

To build vacuum in milker, turn on pump, making sure milk tube valves are closed. When pulsator starts operating the vacuum pump gauge will indicate vacuum is present in milker.

To attach teat cups to udder, slip inflation cup on udder and open milk tube valve. Repeat for each udder. To remove teatcups, turn milk tube valve off, gently slip finger between inflation and teat to release small amount of vacuum left between the teat and the inflation, slip off inflation and repeat with each teat.



Close milk  
tube valve.

Then release  
vacuum left in  
inflation with  
finger

# Cleaning & Sanitizing

Keep Pulsator and Air Tubes Dry

## **Preferred Method:**

1. **WASH:** Fully disassemble milker using approved Dairy Detergent, Remove pulsator, separate air tubing from milk tubes, as air tubes need to stay dry. Soak components in soapy warm water, brush clean.

Inflation brush should be used for inflations, tubing brush for milk tubing, bucket brush or scour pad for inside and outside of bucket. Keep Pulsator and air tubing dry.

2. **RINSE:** Immediately after washing rinse parts (except pulsator and air tubes) with clean , hot water.

3. **STORE:** Store components in position to allow proper drip-drying. Use of Stainless Steel Drying Racks (hangers) is recommended.

4. **SANITIZE:** Before re-use, assemble milker, make sure there is no water between inflations and teat cups. Dip, swish, wipe, or mist approved dairy sanitizer to inside of inflations, can and lid, keep pulsator dry. Sanitizer does not need to be rinsed off.

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## **Your Farmhaus / Surge Pulsator Guarantee**

Pulsator guarantee good for 90 days from date of purchase. In which time pulsator will be repaired or replaced.

Guarantee void if pulsator, shows signs of miss use such as:

**BENT**

- ports
- needle valve
- cover
- excessive or improper oiling
- signs of water, detergent, milk or other substance being drawn through pulsator.

Or if serial number is:

- Removed
- altered or made unreadable.

Keep this guarantee in a safe place, you will need to send in along with pulsator.

Customer Name \_\_\_\_\_

Purchase Date \_\_\_\_\_

Invoice # \_\_\_\_\_

Pulsator Serial # \_\_\_\_\_