

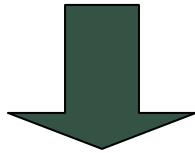


Lauren Tri-Circle[®] Silicone Liner

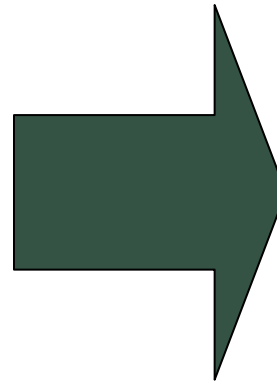
Why We Need a Collapse of the Liner

CHAIN REACTION

Adequate teat massage



Prevent
Congestion of blood and
body fluid



Higher peak flow
Adequate milk out
Udder Health

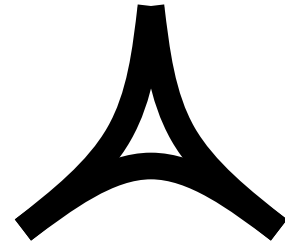
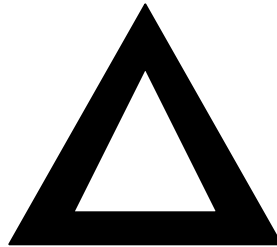
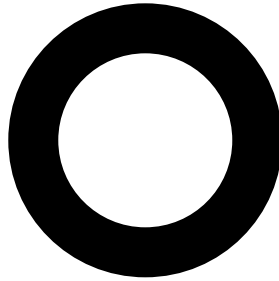
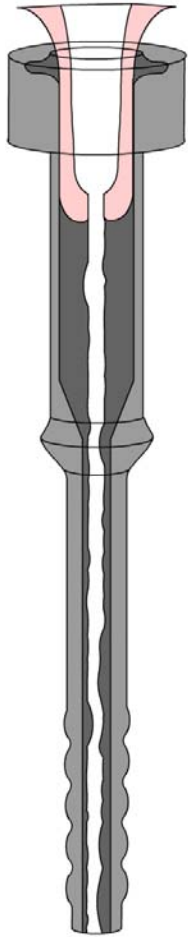
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Collapsing Characteristics - Liner Designs



Collapsing of Lauren Tri-Circle[®] Liner



Before Collapse



After Collapse

- Allows stable vacuum during the open phase of the liner
- Provides adequate massage to the teat without unneeded pressure on the teat end

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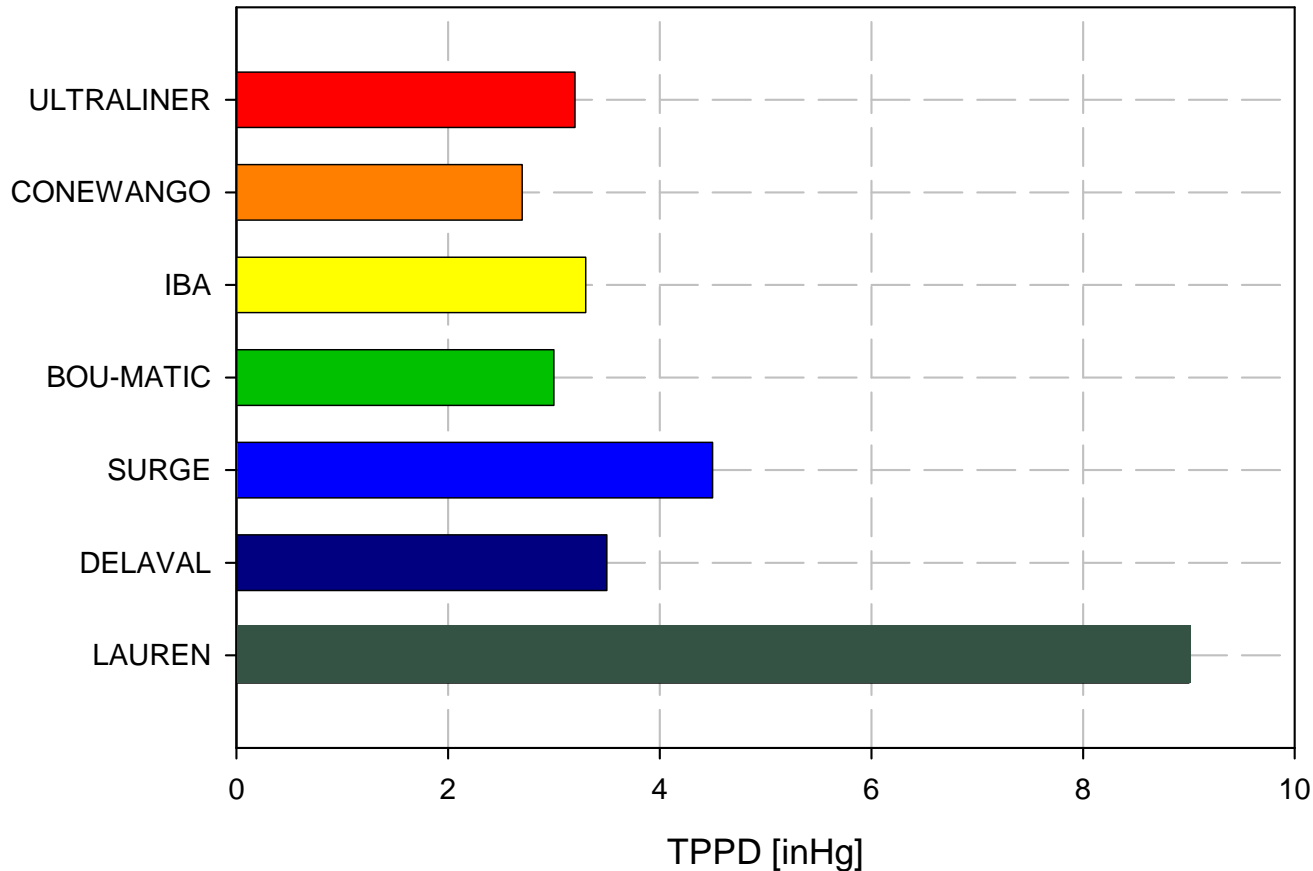
Definition of TPPD:

TPPD = Touch Point Pressure Difference

The pressure difference across the walls of the liner when the walls of the liner touch each other. Collapse resistance would be a satisfactory descriptive term. Sometimes called the liner collapse force.

- Typical values range from 3-6” historically
- Thin wall liners have a low TPPD
- Thick wall liners have a high TPPD

Touching Point Pressure Difference (TPPD)



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What Are the Important Aspects of Vent

As the liner opens, air flows from the short milk tube and claw to fill the expanding space under teat

- Helps to prevent cross-contamination
 - If one quarter sheds pathogens, vent helps remove milk faster thus preventing pathogens from entering healthy quarters.
- Helps to carry the milk away from liner
- Prevent cycles of vacuum fluctuations at teat end

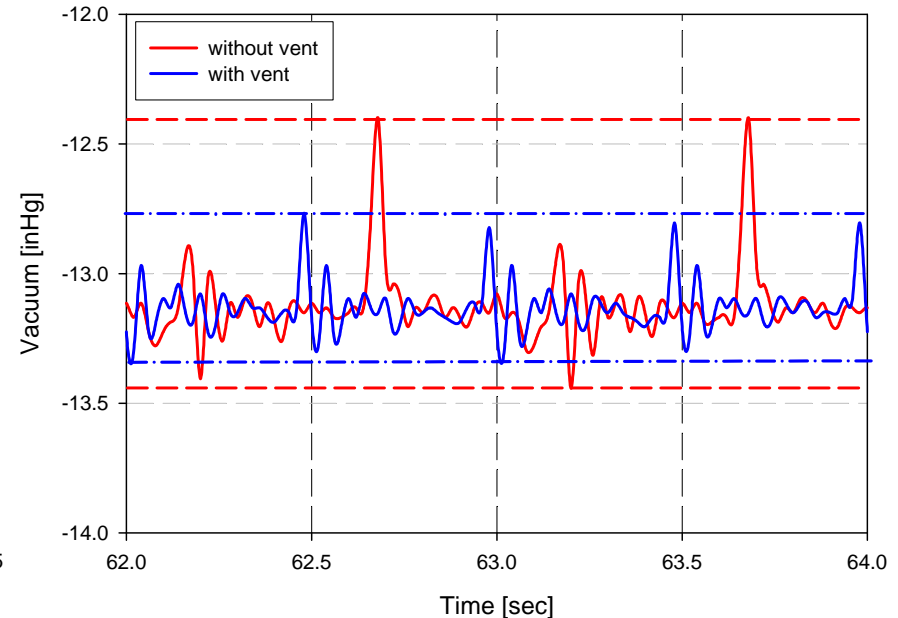
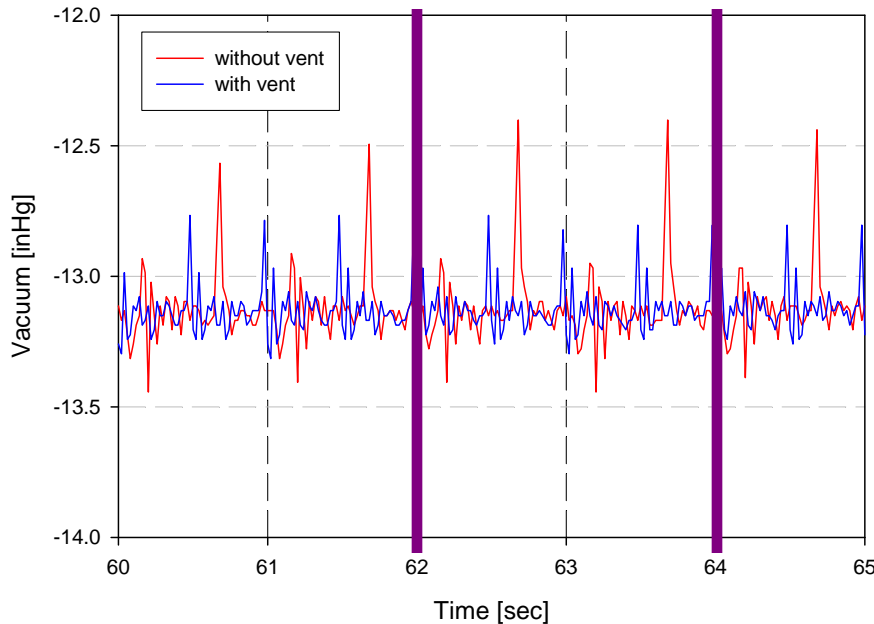
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Effect of Vent on Vacuum Stability



Fluctuation **WITHOUT** Vent: 12.40 ~ 13.45 inHg, variation 1 inHg

Fluctuation **WITH** Vent: 12.80 ~ 13.30 in Hg, variation 0.5 inHg

Lauren Tri-Circle® Liner Vent (Patented) = .15 to .25 CFM's per liner

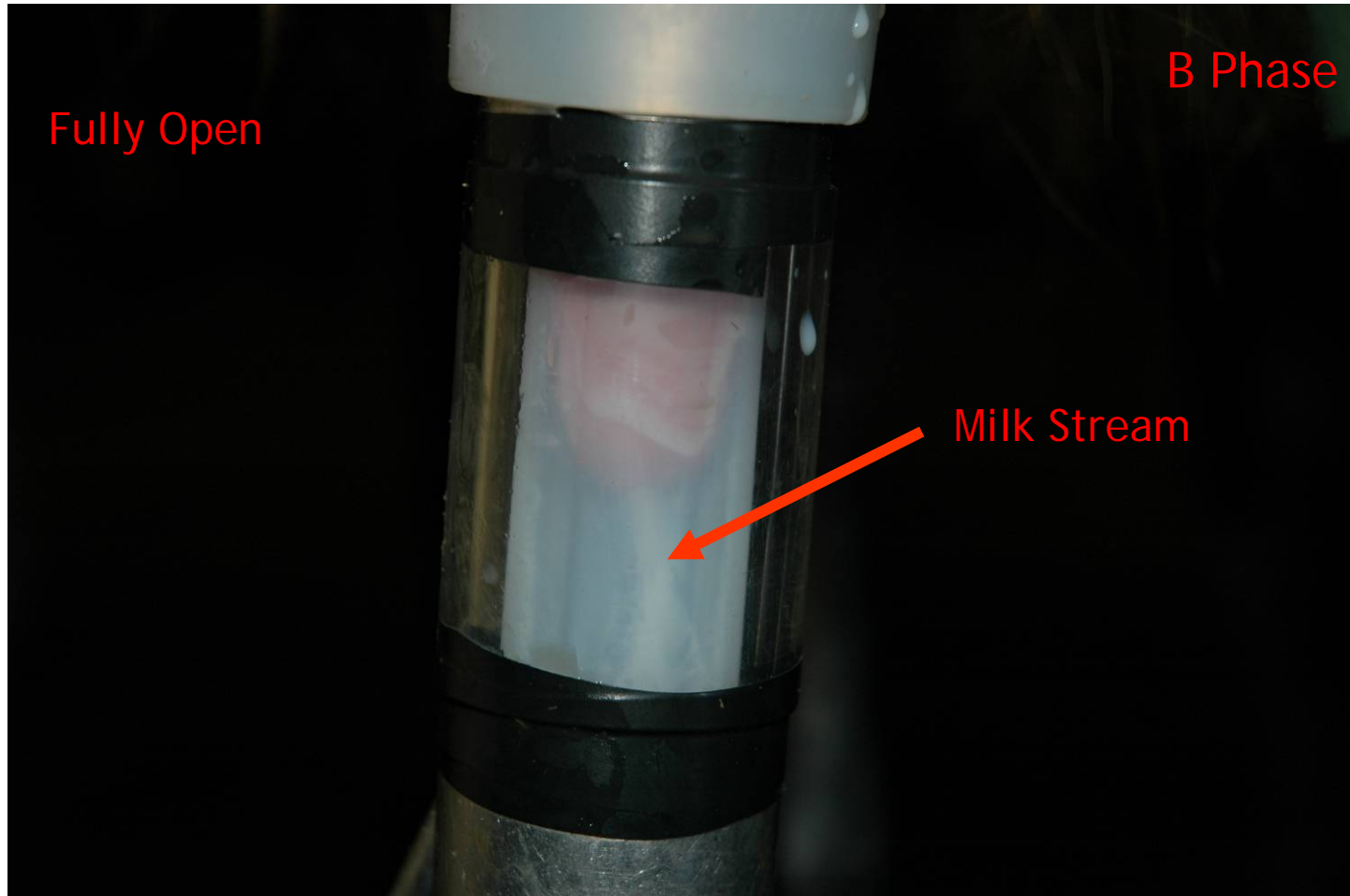
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Fully Open Position of Tri-Circle[®] Silicone Liner



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