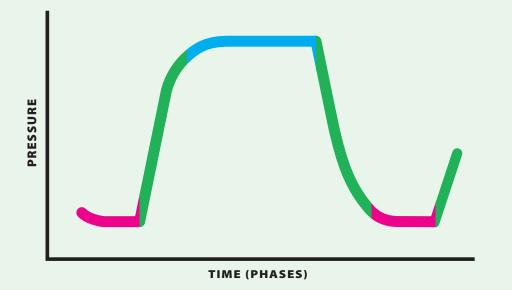
Surepulse inserts and what they do.



Surepulse inserts control the movement of the liner wall

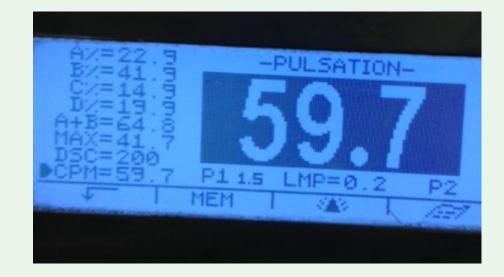
Improve pulsation curves Limit liner distension Soften the movement of the liner Surepulse can fit nearly every installation

Are these ISO standards enough?



B-Phase Minimum 300ms

D-Phase Minimum 150ms



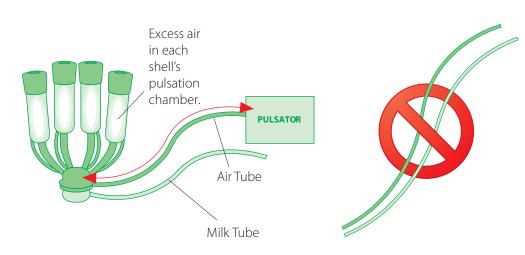
But... problems in the dairy:

High cell count and occasional cup slip.

The reading on the pulsation meter above meets ISO standards but the reading is a bad result.

Surepulse inserts: the magic tool

Using Surepulse inserts effectively reduces the air tube between the pulsator and the cluster by 2.3 metres and can significantly improve pulsation readings providing benefits in milking moving towards pulsation optimums.



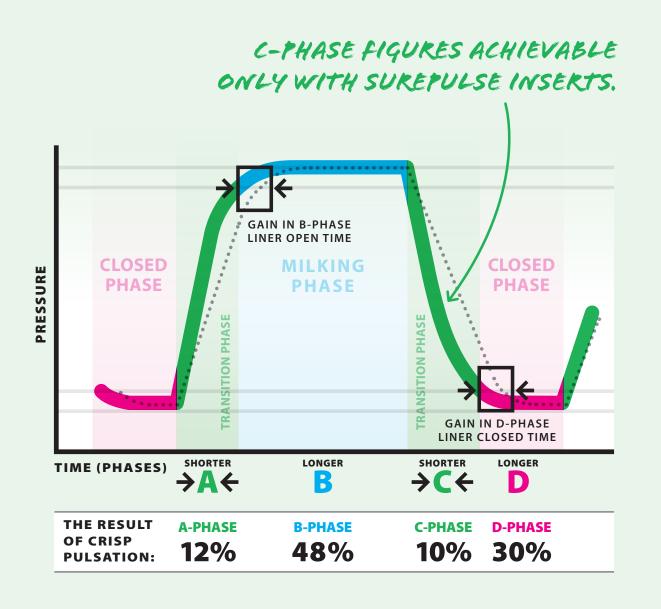
WITHOUT SUREPULSE

WITH SUREPULSE

DairuTacl

DAIRY TECH *** 15:53 A%= B%=MILK C%= D%= KEST A+B= MAX= DSC=	2 22 AUG P1 24.4 35.4 16.0 23.8 59.8 42.3 239	19 *** P2 29.5 35.0 16.1 29.5 42.3 291	DAIRYT	6:01 22 A P1 18.1 ✓ 42.0 11.8	0427924648 UG 14 *** P2 18.3 41.6 12.3 27.5 59.9 41.9 275 60.0	
MAX=		241 60.0	CPM=		60.0	11/1

Pulsation optimums



Milk and rest phases based on a typical pulsation rate of 60 cycles per minute.

A 120ms

B 480ms (for fast milking and no cup slip)

C 100ms (triangular) or 115ms (round)

D 300ms (for good teat health)

Reduction of ballooning by fitting Surepulse inserts



WITHOUT INSERTS

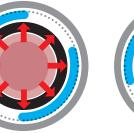


A-Phase (opening)

C-Phase (closing)

Hard lateral forces on teats in the transition phases BAD





A-Phase (opening) SurePulse inserts fit between shell and liner and prevent liner ballooning.



C-Phase (closing)



Reduced lateral forces on teats in the transition phases GOOD

Surepulse inserts control the movement of the liner wall... **BUT CANNOT**

control vacuum fluctuations or close the liner...

however Calf 35 can!



Now Surepulse powered by Calf 35 delivers:

- Fast milking
- Almost no cup slip milking at 35-36kPa vacuum
- Excellent teat health
- Significant financial savings in animal health
- Better animal longevity
- Permanently removing stress and creating a more pleasant environment for animals and people.

Happiness and harmony



physiology



