



- What is it
- VaDia in Milking Time Test
- VaDia in Pulsator Test
- VaDia Suite PC-software



- Measures performance milking equipment and milking routines
- Continuously logs vacuum at 4 points
- Streaming data (Bluetooth)
- Milking Time Test ('wet test')
- Pulsator dry test (ISO 6690)
- Fall-off test (ISO 5570)



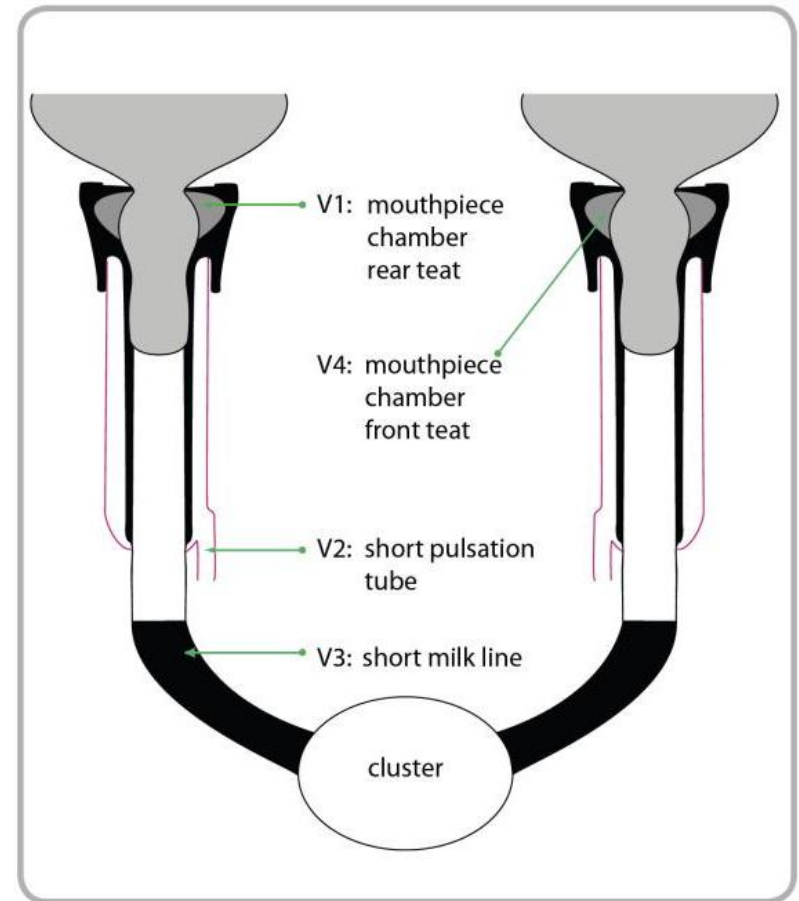
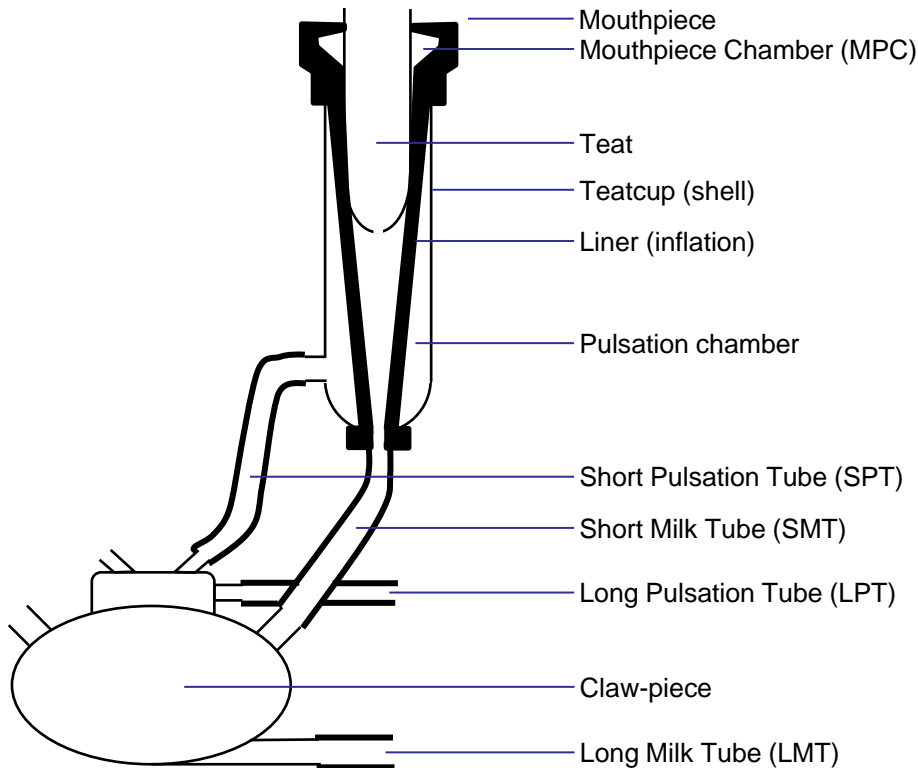


Hardware details

- 4 channels, 200 samples/second, 10 hr. logging
- Log-file retrieved through USB
- Bluetooth streaming 200 samples/sec/channel
- Rechargeable AA battery, charging USB (PC charger). Empty: alkaline AA possible
- VaDia Suite for analyzing and report making
- Splash proof housing HxWxD: 9x6x3 cm, 85 grams
- Up to 80 kPa, accuracy ± 0.2 kPa



Milking Time Test





Milking Time Test

- Average teat end vacuum
- Vacuum fluctuations
- Cow milk profile (Bimodal, over-milking)
- Back spray
- Special equipment features (stimulation, ACR, etc.)
- Vacuum resistance of claw-piece
- Effect of adjustments to vacuum and pulsation
- Verify liner dimensions fit for the teat
- Vacuum drops/irregular vacuum fluctuations according to the ISO norm



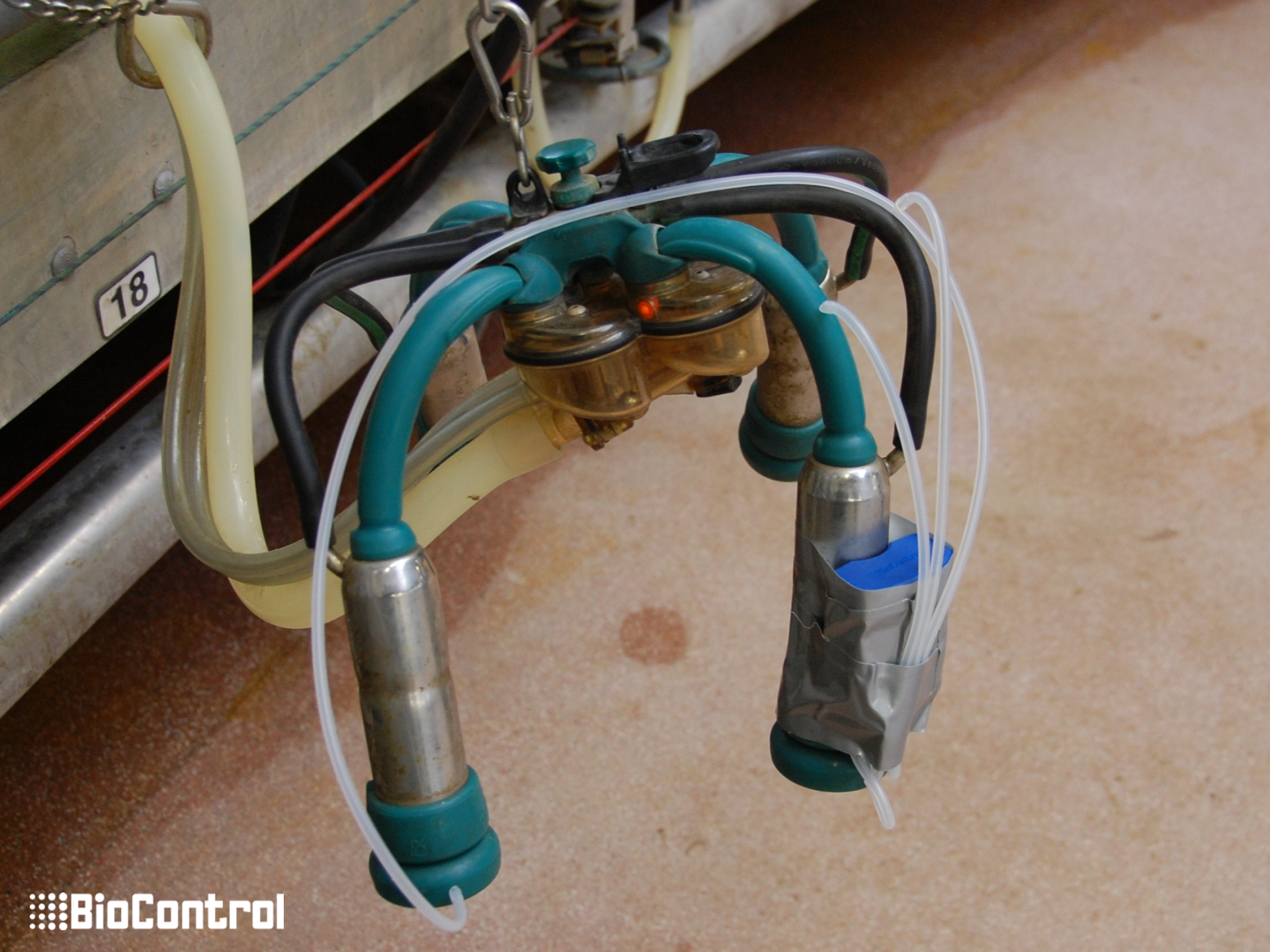










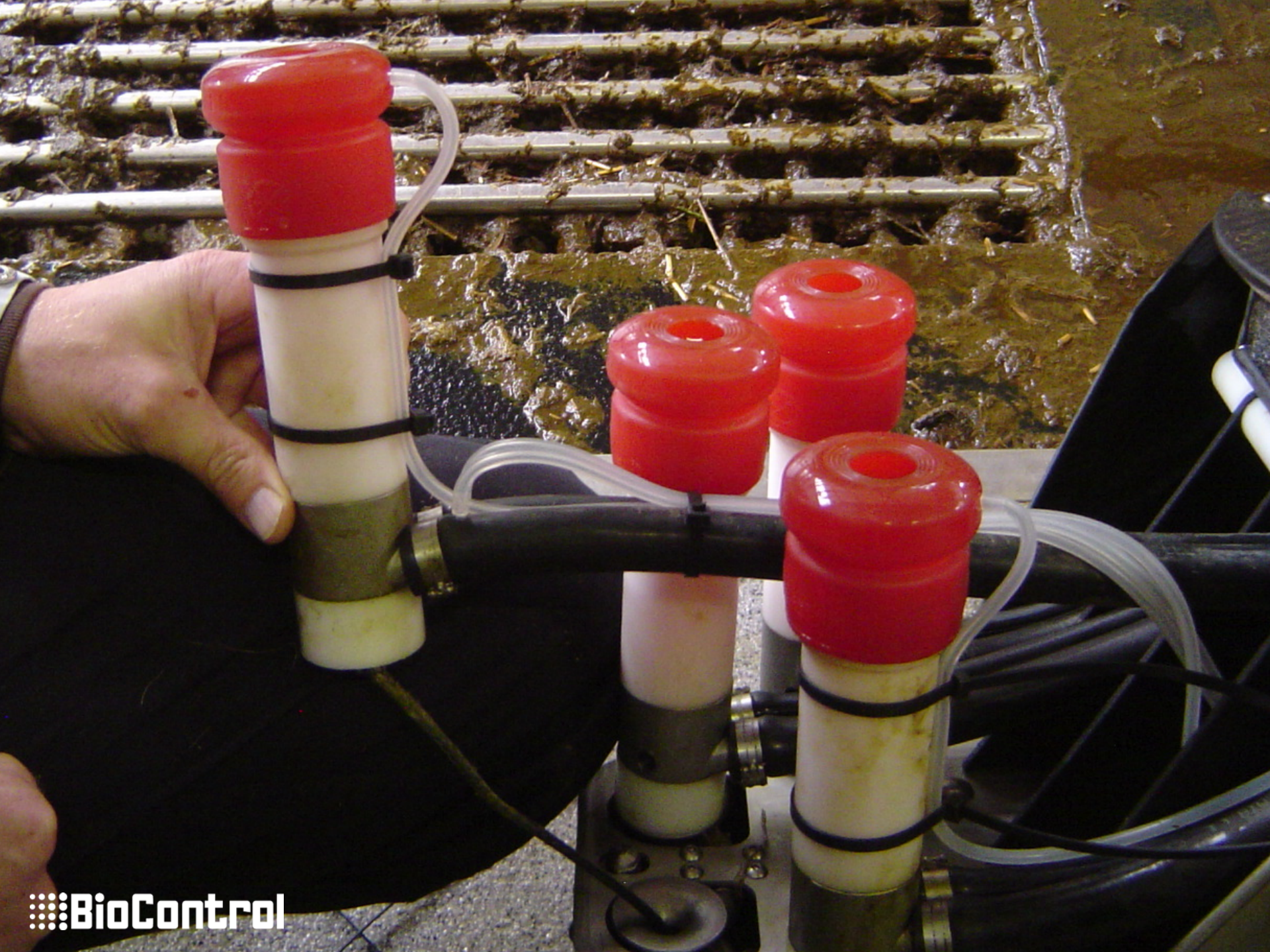


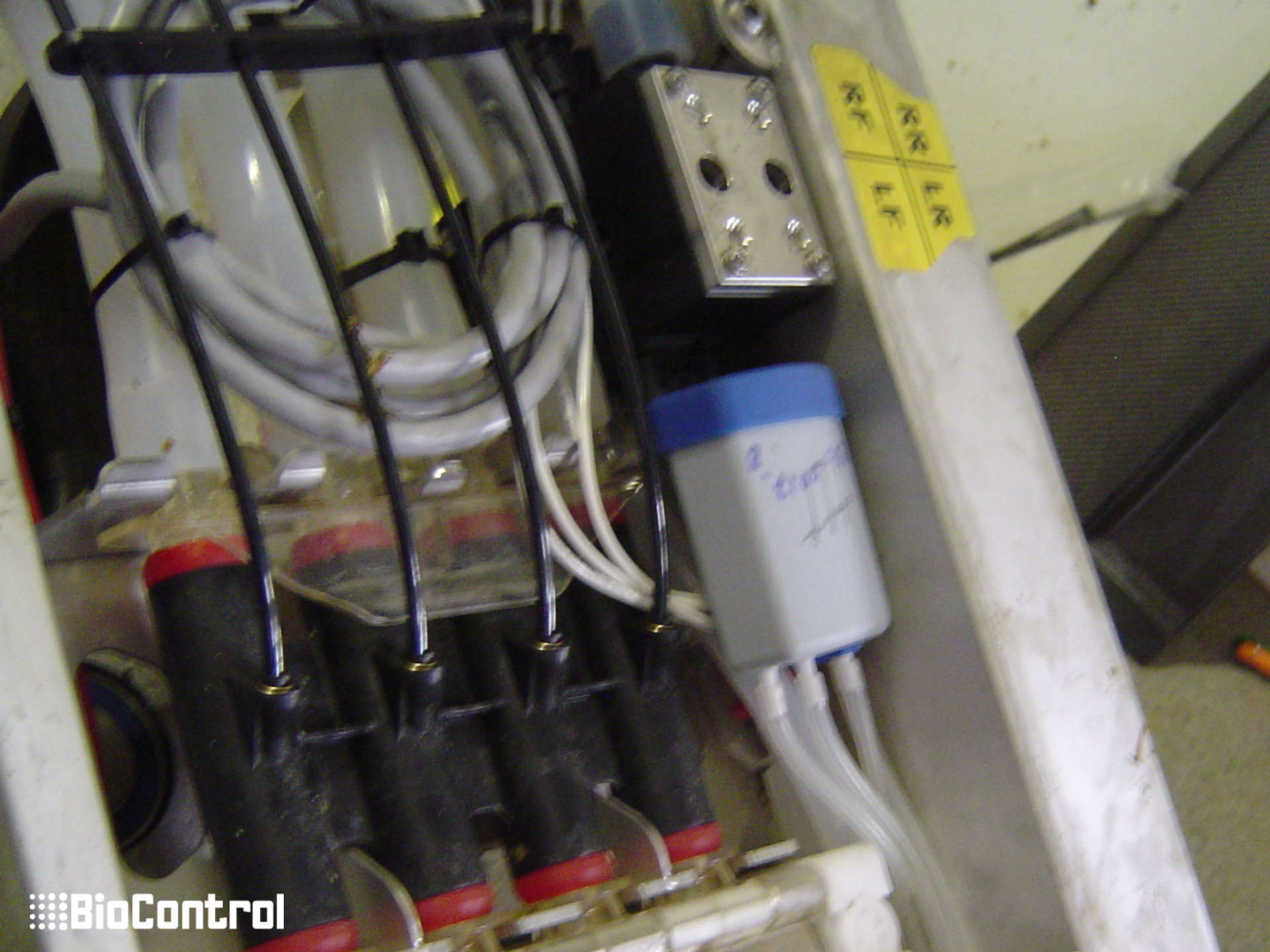
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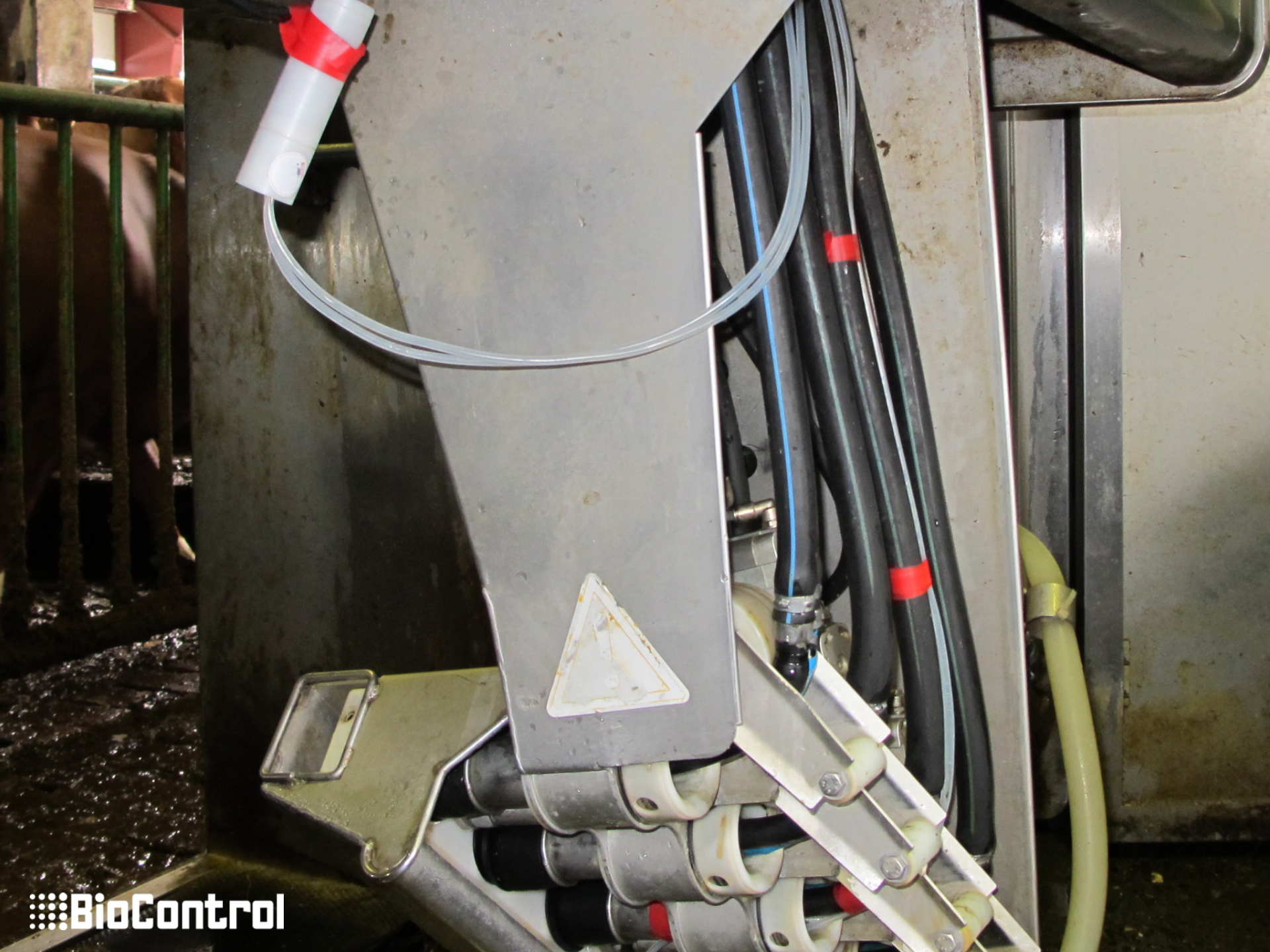












- Offline and
- Online testing





Pulsator Testing ISO 6690

- VaDia in pocket



Plusator test conditions

	Target	Deviation	
		%	Value
A (msec)	100	10,0	10
B (msec)	500	10,0	50
C (msec)	100	10,0	10
D (msec)	300	10,0	30
Rate	60	5,0	3
Vmax	42	5,0	2,1
Ratio	60	5,0	3
	40		
Limp	2		
Dip	4		

Below Min

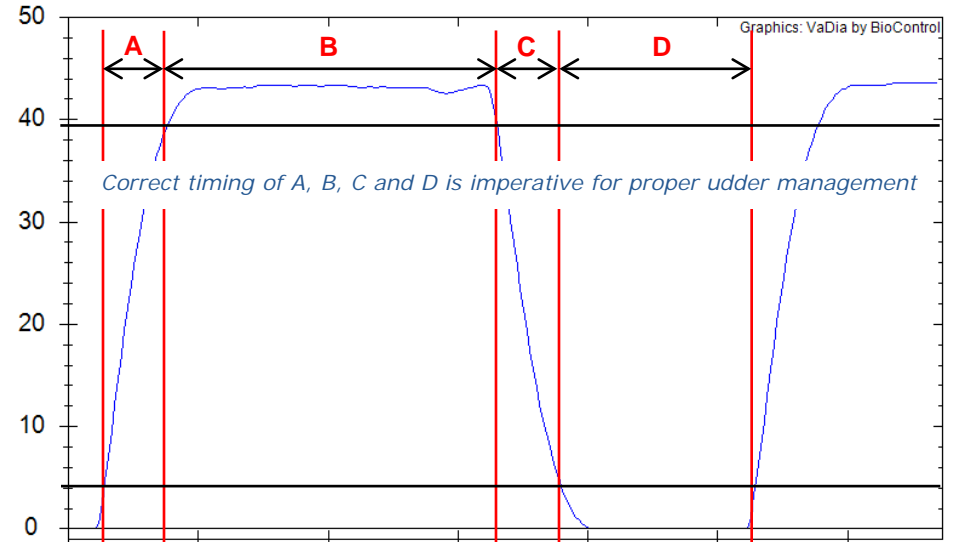
Rear Front

Within scope

Rear Front

Above Max

Rear Front



DATA SUMMARY 30-5-2013

Pulsator

Rate (bpm):	59,8
Ratio:	60,1 : 39,9
A Phase:	9,6% 96
B Phase:	50,5% 507
C Phase:	9,9% 99
D Phase:	30,0% 301
A+B Phase:	60,1% 603
C+D Phase:	39,9% 400
Vacuum:	43,7

DATA SUMMARY 30-5-2013

Pulsator

Rate (bpm):	59,8
Ratio:	60,2 : 39,8
A Phase:	9,8% 98
B Phase:	50,4% 506
C Phase:	9,8% 98
D Phase:	30,1% 302
A+B Phase:	60,2% 604
C+D Phase:	39,8% 400
Vacuum:	43,6

Limp: 0,0

VaDia Suite
⏪ ⏩ ⏴ ⏵

Customer
Analysis
History
Reports
Load vd5 file
VaDia Manager
Settings

Customer :
Henk Leppink

Source:
C:\Users\epi.BIOCONTROL\Documents\Leppink 5A MTT demo.vd5

Vadias COM-ports

Jastrzebiec

Customer
Conventional milking
Robotic milking

Fam name Jastrzebiec

Unique Fam

First Name

Last Name **Jastrzebiec**

Email

Telephone

Country POLAND

In operation since 2014

Henk Leppink

Customer
Conventional milking
Robotic milking

Milking equipment brand Manus

Milking parlour type Tandem

Number of places 6

Pulsator model/type

Claw model/type

Liner model/type

Family Versace

Customer
Conventional milking
Robotic milking

Robot brand Lely

Model/type A4

Number of robots 2

Liner model/type

Add new cus

	Target	Deviation %	Value	Below Min	
A (msec)	100	10,0	10	Rear <input checked="" type="checkbox"/>	Front <input type="checkbox"/>
B (msec)	500	10,0	50	Within scope	
C (msec)	100	5,0	5	Rear <input type="checkbox"/>	Front <input type="checkbox"/>
D (msec)	300	10,0	30	Above Max	
Rate	60	5,0	3	Rear <input checked="" type="checkbox"/>	Front <input type="checkbox"/>
Vmax	42	5,0	2,1		
Ratio	60	5,0	3		
Limp	0,5				
Dip	4				

Do not use these conditions
Apply conditions

0.10.0.9
● ● ● ●



VaDia Suite Pulsator Report



Pulsator Test report

Customer
Henk Leppink

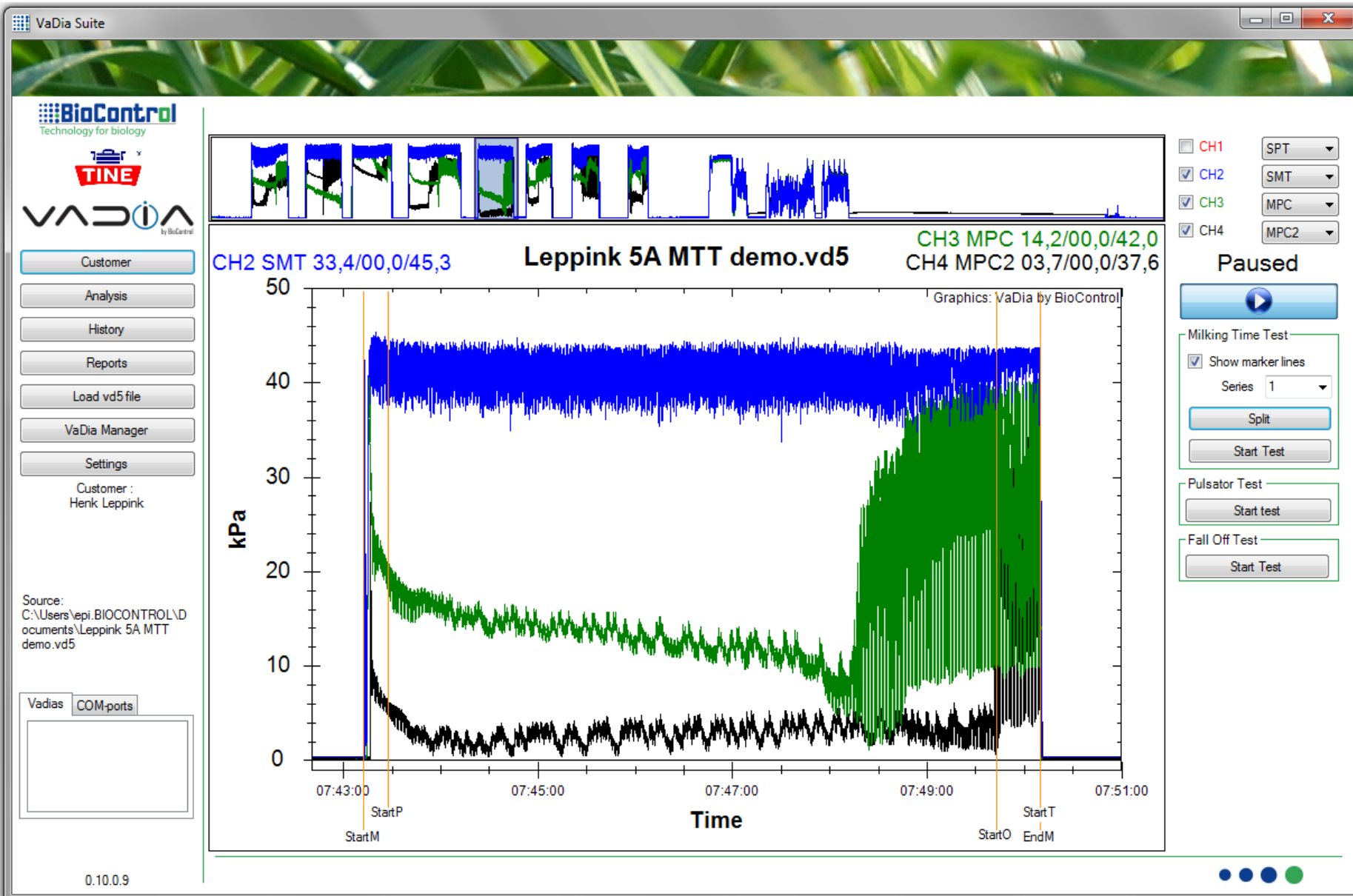


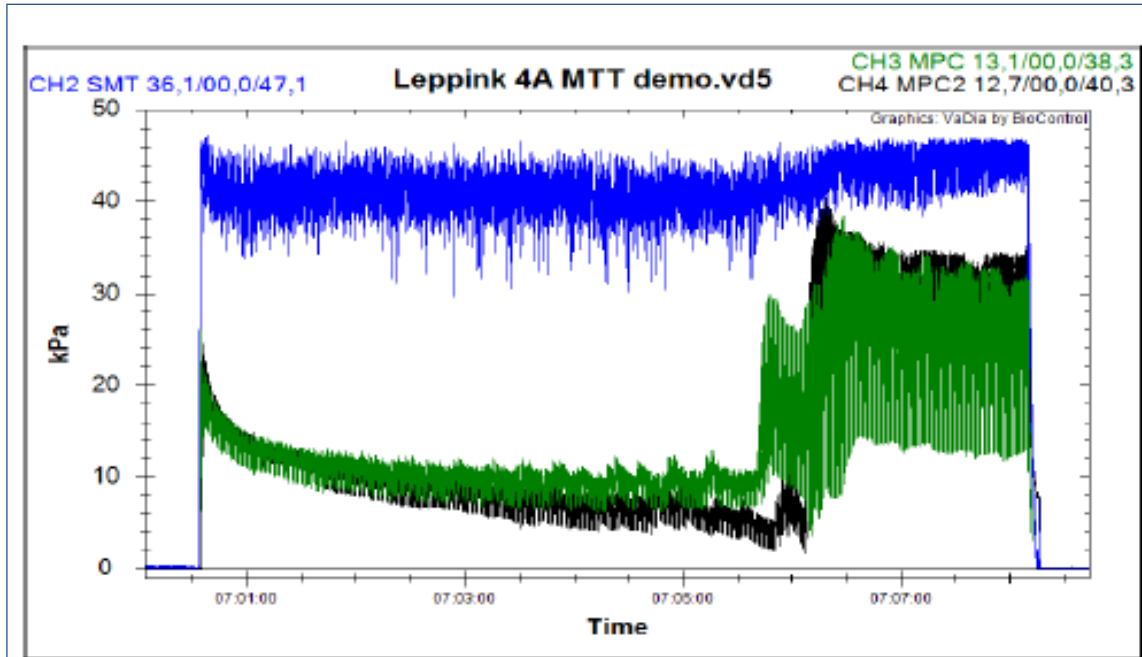
Advisor
BioControl

Test Date 2013-05-30

Pulsator Nr.	Chan	Rate (bpm)	Ratio	A (%msec)	B (%msec)	C (%msec)	D (%msec)	Vmax (kPa)	Limp	Dip
1	1	59,8	60,2 : 39,8	9,6 96	50,6 508	9,8 98	30,1 302	43,6	0,0%	
1	2	59,8	60,1 : 39,9	9,8 98	50,3 505	9,9 99	30,0 301	43,6	0,0%	
2	1	59,8	60,1 : 39,9	9,6 96	50,5 507	10,0 100	29,9 300	43,6	0,1%	
2	2	59,8	60,3 : 39,7	10,0 100	50,3 505	10,1 101	29,7 298	43,5	0,1%	
3	1	59,8	60,3 : 39,7	9,8 98	50,5 507	10,0 100	29,8 299	43,5	0,9%	
3	2	59,8	61,1 : 38,9	9,9 99	51,2 514	10,0 100	28,9 290	43,5	0,9%	
4	1	59,8	60,3 : 39,7	9,9 99	50,4 506	9,9 99	29,9 300	43,6	0,0%	
4	2	59,8	60,2 : 39,8	9,7 97	50,5 507	9,9 99	29,9 300	43,6	0,0%	
5	1	59,8	60,1 : 39,9	9,8 98	50,3 505	10,0 100	30,0 301	43,7	0,0%	
5	2	59,8	60,0 : 40,0	10,4 104	49,7 498	9,7 97	30,3 304	43,6	0,0%	
6	1	59,8	60,5 : 39,5	10,0 100	50,5 507	10,8 108	28,7 288	43,6	0,4%	
6	2	59,8	60,2 : 39,8	10,0 100	50,2 504	10,5 105	29,4 295	43,5	0,4%	







Animal Id	456
Machine on time	7:42
Overmilking	1:52
Average short milk tube vacuum	
Total milking	40,5
Peak flow period	39,9
Overmilking	43,9
Cyclic vacuum fluctuations	
Above average	44,8
Below average	37,4
Average PFP MPC Vacuum	11,0
No Irregular vacuum fluctuations	0
Average Milk Flow	1,67
Milk yield	12,90



VaDia Suite MTT Report

Animal no	Milk yield	Machine on time	Overmilking time	SMT Total (kPa)	SMT PF (kPa)	SMT Overmilking (kPa)	MPC PF (kPa)	CVF Above (kPa)	CVF Below (kPa)	Irregular Vacuum Fluctuations	Average Milk Flow
123	15,6	05:30	01:36	40,1	38,9	42,6	31,3	5,6	-3,1	0	2,83
456	12,9	07:42	01:52	40,5	39,9	43,9	11,0	4,4	-3,0	0	1,67
789	18,3	11:20	03:11	41,4	40,7	44,3	26,4	5,2	-2,8	1	1,61

Series

1	15,6	08:11	02:13	40,7	39,8	43,6	22,9	5,1	-3,0	0,33	1,91
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1123	17,3	07:16	02:19	39,1	38,1	42,0	21,4	5,0	-4,4	1	2,38
1458	19,5	07:04	00:19	40,1	40,3	41,6	14,8	4,2	-2,4	3	2,76
1789	7,9	07:47	00:52	40,2	40,2	41,3	35,5	4,1	-2,2	3	1,01

Series

2	14,9	07:22	01:10	39,8	39,5	41,6	23,9	4,4	-3,0	2,33	2,02
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Total

6	15,3	07:46	01:42	40,2	39,7	42,6	23,4	4,7	-3,0	1,33	1,96
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Vadia Fall-off Test Report

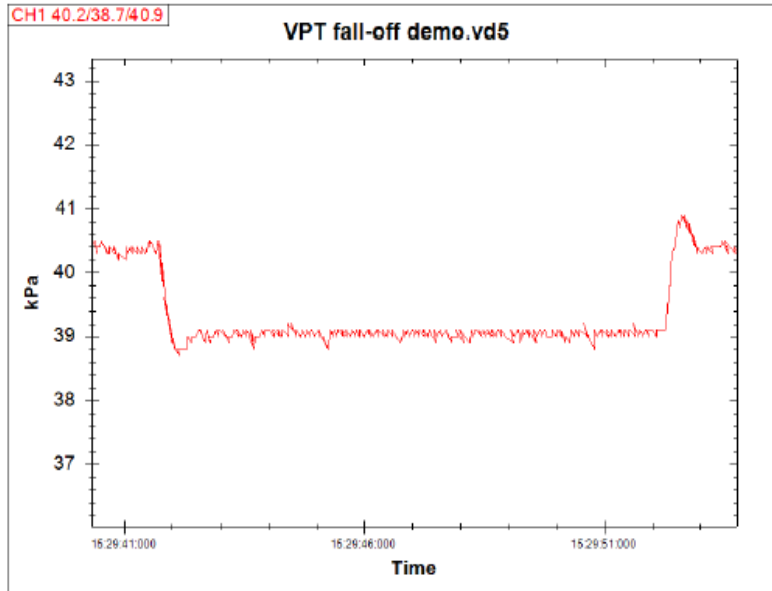
Customer

Jaap Grolleman

Company

Test Date: 20.12.2012

Advisor



This is the disclaimer text

	Test	ISO 5707 norm
Undershoot	0.32	< 2 kPa
Vaccum drop	1.33	< 2 kPa
Overshoot	0.55	< 2 kPa



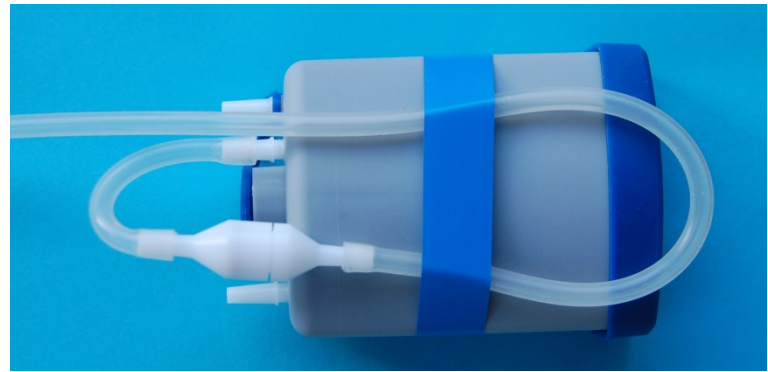
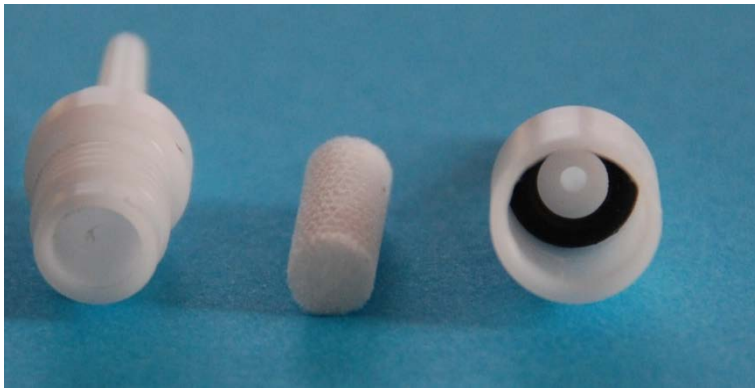
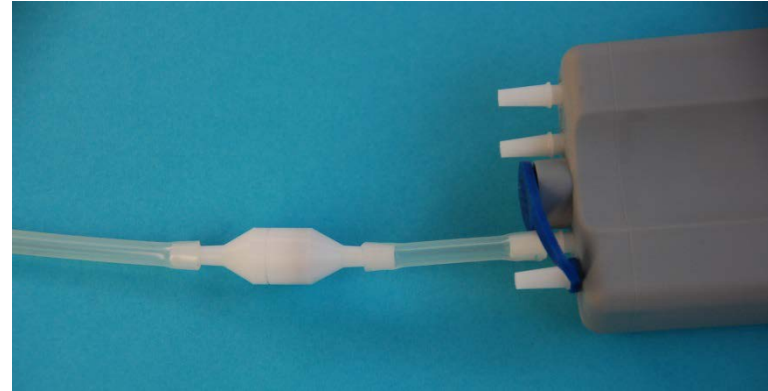
VaDia Suite

- Fully integrated PC-software, different modules (Milking Time Test, Pulsator Test, Falloff Test, etc.)
- Fast to work with, easy navigation
- Automatic updating: always latest features
- Automatically compare pulsator values with customer set targets, deviations highlighted
- Make reports with own logo
- Comprehensive customer database with history
- Easy create own reports, additional functions (XML)
- Easy translation, many different languages



- Movie 'How to use the VaDia'
- Movie 'How to work with VaDia Suite' (to come)

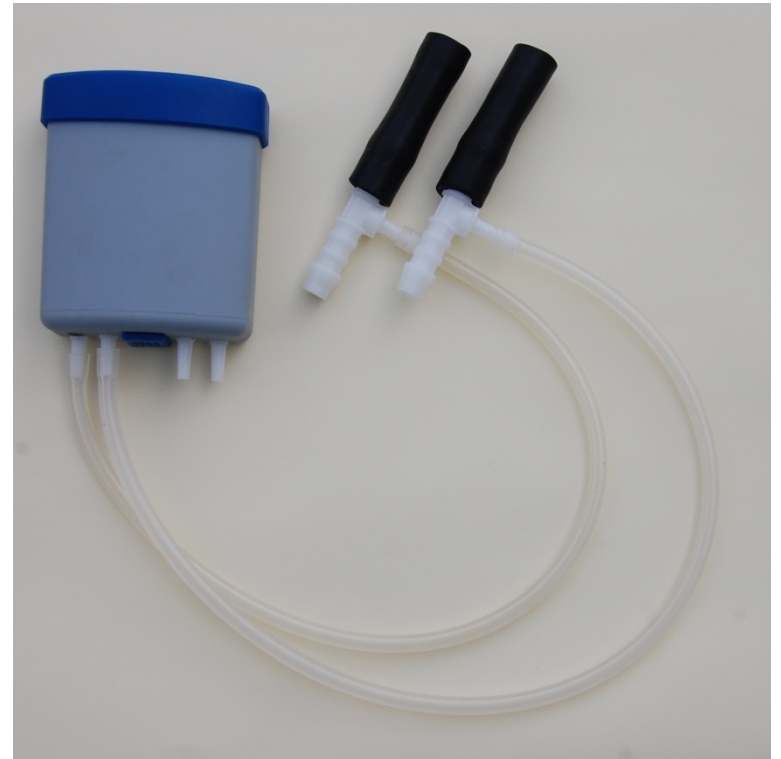




- 2x Milk filter supplied with every VaDia
- Milk filter MUST be used with milk-lines (foam)



Pulsator Testing ISO 6690



- 2x T-Piece supplied with every VaDia kit



- VaDia Suite modules (sold as separate modules)
 - Milking Time Test: replacement of VaDia Viewer
 - Pulsator Test: replacement of VPT-software
- User license:
extra activation for extra PC (or crash, etc.)