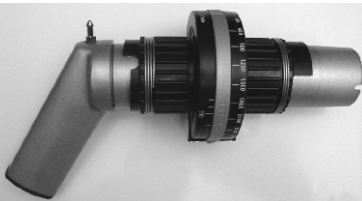




Milking Machine Control Products Catalogue



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June, 2007

Dear customer,

We are pleased sending you our products and service catalogue.

As you probably knows, Meditation is the only company dedicated full time to products and services of milking machine measurement. Pulsator testers, airflowmeters and vacuumeters are our day a day.

Tell us, please, your needs and we will try to fulfill quickly and with effectiveness.

Our repairs and calibration service knows perfectly all these tools, and we will give solution to the breakdown, or to the most frequent demands on calibration and certification.

Thus we hope this catalogue helps you, and any question don't hesitate contact us, we will deal with pleasure.

Best regards,

Javier Pérez Portero
 Meditation Precision S.L Manager



1. PT-IV Pulsator tester

The extremely successful forerunner of the PT-V is a measurement instrument that has unquestionably proved itself in practice. A built-in miniprinter allows direct display of, among other results, the pulsation curve and the vacuum fluctuations within the milking system.

PT-IV standard program:

⚡ #: 01.01.0001



2. AFM 3000 Flowmeter.

Airflowmeter, with two scales, with high resistance, precision and field experience.

Range 0-3000 L/min (with by-pass it reaches 5000-7000 L)

AFM 3000 Flowmeter

⚡ #: 10.02.0000



3. DVPM-01 Digital Vacuum meter

This handy digital vacuum meter measures both under and over pressures. The DVPM-01 is a low cost and user friendly way of rapidly measuring vacuum levels. A built-in battery allows you to perform measurements with the DVPM-01 virtually anywhere. Its moisture-proof design, high level of accuracy and compact size, make the DVPM-01 an indispensable and reliable measurement tool.

DVPM-01 Digital Vacuum meter:

⚡ #: 01.01.0026

Tradicional tools

4. Airflowmeter By-pass 2000 l/min

By-pass to join to the mouth of flowmeter. Their holes allow 2000 L/m of air entrance. Thus the all open flowmeter reach 5000 L/min

☞ #: 01.01.0006



5. Connection adapters for flowmeter.

With different inner diameters 46,38,31.5 mm to connect your flowmeter to the milking machine

46/46 mm, ☞ #: 01.01.0007

46/38 mm, ☞ #: 01.01.0008

46/31,5 mm, ☞ #: 01.01.0009



6. Rotameter AGL-14.

According to ISO norm their air entrance in the cluster must be between 4-12 L/ min (that basically should enter by the cluster hole). The rotameter allows us measure this figure, ensuring the correct milk flux towards the milking tube, and avoiding long milking times.

☞ #: 05.03.0001



7. Flowmeter AFM-3000 ISO Kit

This package include:

- AFM 3000 Flowmeter
- 3 connection adapters 50/40/30
- Flowmeter by-pass 2000 L
- Digital vacuum meter
- Protection suitcase
- Rotameter optional

☞ #: 10.02.0018





8. PT-V Pulsator tester

The Medition pulsotester PTV is remarkable for its multifunctionality. No longer are different instruments required for the monitoring of a milking parlour.

The PTV combines a vacuum gauge, a pulsator tester and an airflowmeter in a single instrument, besides performing dynamic measurements. Moreover, it has installed ISO and UNE protocol.

The pulsator tester PT-V will be delivered in a standard box including the mentioned accessories ≤ #: 01.01.0003

- Memory capacity 0,1 Mb (50 measurements)
- Backlight display
- Main adapter 100 - 230V / 50 60Hz
- Car adapter 12V
- Nylon Protection bag
- Bag with 20 filters
- Report generator and user manual on CD-ROM
- Cable zero-modem

≤ #: 01.01.0004 Increased price for bigger memory capacity 0,5 Mb (290 pulsator measurement without download to PC)



9. AFM-V Flowmeter 200 3000 l/min

This is an airflowmeter that reads in the PTV screen, because both are connected by means of a cable. Easy to use, it allows measure vacuum pump flow, reserves, and ISO and another protocols.

Range up to 3000 L, and with 1 or 2 by-pass up to 5000 y 7000 L/min.

Not the noisy disturbances of another flowmeters.

≤ #: 01.01.0005

Modern tools

10. Stainless steel external transducer.

The basic pulsator tester model comes with two vacuum entrances. If we want 4 entrances we should add two of these transducers. Ideal for dynamic measurements and ISO protocol (rubber tube coming from pump, regulator and end unit), thus it can be done everything without leaving the end unit.

☞ #: 01.01.0010



11. Printer.

Several commercial printer can be connected to the PT-V. Alternatively we offer a total solution by means of this portable printer, that can be used to print in the farm, or then from the memory in the office.

DPU 414 Printer include main adapter, serial cable and rechargeable battery

☞ #: 01.01.0018



12. NOP Needle

For measuring during milking time with the PT-V or V (measure vacuum in the liner punching this), a NOP needle is available, which is fitted with a sliding mechanism so that the rubber particles created during insertion of the needle can be removed because they disturb the measurement.

Besides there is a fluid trap to avoid the milk arrives to the PT.

☞ #: 01.01.0023





13. Small suitcase.

To carry the PT-V carefully we can offer two different protection cases. These protection cases carries the airflow meter, external transducers, and accessories.

⌂ #: 01.01.0021



14. Big suitcase

To carry the PT-V carefully we can offer two different protection cases. These protection cases carries the airflow meter, external transducers, accessories and printer.

⌂ #: 01.01.0022

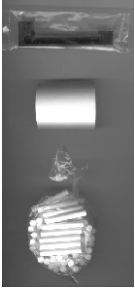


15. Flowmeter suitcase

To carry the AFM 3000, the vacuum meter and another accessories carefully, we offer protection suitcases.

⌂ #: 01.02.0029

Consumables



PT-IV Inkribbon

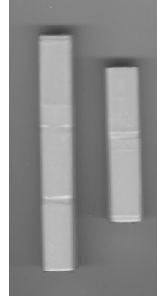
⌄ #: 01.02.0029

PT-IV Paper roll

⌄ #: 01.02.0029

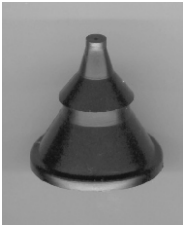
Filtres

⌄ #: 01.02.0029



PT-IV and V batteries

⌄ #: 01.02.0029



Liner Top

⌄ #: 01.02.0029



PT main adapters

⌄ #: 01.02.0029



Car adapter

⌄ #: 01.02.0029



DVPM Protection

⌄ #: 01.02.0029

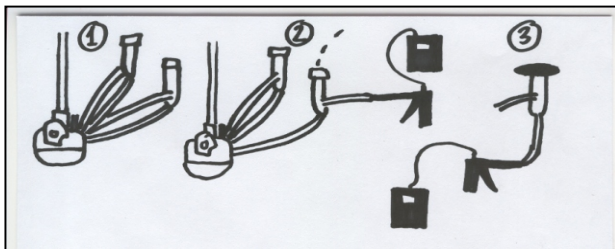


Due to the growing interest around the overpressure and collapse measurement, we put to your disposal one manual vacuum pump, and a metacrilate cover, that together with the digital vacuummeter DVPM, allows you make all these measurements.

Here we insert informative draws to know how and where measure these two parameters:



1. Milking unit in normal situation.
2. Overpressure Measurement- manual vacuum pump (joint to vacuum meter) in short pulsation tube. Cow/sheep/goat in milking position. We work the manual pump as far as milk flows. At this moment we write vacuum Kpa of these liner.
3. Collapse measurement- manual vacuum pump (joint to vacuum meter) in short milk tube or in liner. We measure in the office or in the farm (not with animal), metacrilate in the mouth of the liner. We work the pump and see in which Kpa point the liner walls touch them.



Report and graphics of PT-V

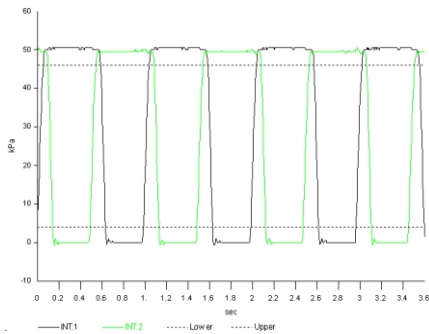
PULSATOR MEASUREMENT

PtV Test Report for Farm: LUCAA 09:42 12/22/2006

index: A012, 06/15/2006 09:56
 FARM: LUCAA TESTER: AB
 CURVE MEASUREMENT
 LABEL:

Vacuum value in kPa

SENSOR	VACUUM	PRESSURE	A	B	C	D	A+B	C+D	LIMP	PULSE
INT.1 SENSOR	50.6	0.8	55	539	45	349	594	394	0	988
			5.6	54.6	4.6	35.3	60.1	39.9	0.0	60.7
INT.2 SENSOR	49.9	0.8	55	539	45	349	594	394	0	988
			5.6	54.6	4.6	35.3	60.1	39.9	0.0	60.7



MADE TO MEASURE PROTOCOL

PT-V have installed several protocols (ISO, NMC, UNE, another countries).
 Optionally we can prepare for you your own protocol inside PT-V (16
 measurement lines). Here it is an example

index: A003, 09/05/2007 13:40
 FARM: SMITH TESTER: A
 ISO 6690 MEASUREMENT
 LABEL:

Vacuum value in kPa

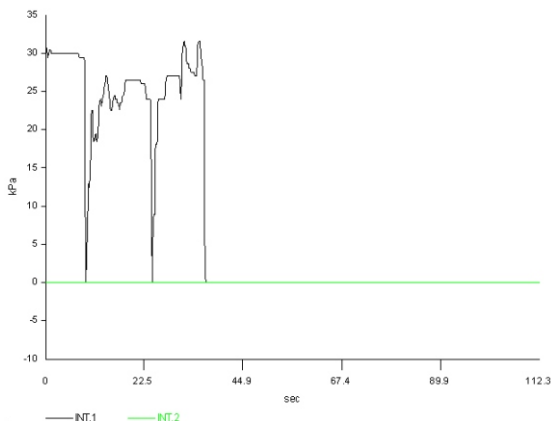
INSTALATION VACUUM METER	kPa :	42.0
TECHNICAL VACUUM METER	kPa :	41.7
FINAL LINE VACUUM	kPa :	41.8
VACUUM SENSITIVITY	kPa :	-
R.P.M.	:	899
CORRECTION FACTOR	:	1.00
PUMP CAP.50kPa WITHOUT CORR.	L/M :	2093
PUMP CAPACITY AT 50 kPa	L/M :	2093
PUMP CAPACITY AT WORKING VAC	L/M :	2470
VACUUM LINE	L/M :	2419
MILK LINE	L/M :	2295
METERS	L/M :	2295
CLUSTERS SHUT OFF	L/M :	2218
MILKING UNITS	L/M :	2145
PULSATORS	L/M :	1988
MANUAL RESERVE	L/M :	2195
EFFECTIVE RESERVE	L/M :	2195
aire line leakagees	L/M :	51
milk line leakagees	L/M :	124
meters leakagees	L/M :	0
cluster shut off leakagees	L/M :	77
milking units leakagees	L/M :	73
pulsator leakagees	L/M :	157
regulator leakagees	L/M :	0

CONSTANT VACUUM IN LINER

index: A015, 06/23/2006 12:54
 FARM: LUCAA TESTER: AB
 CONSTANT MEASUREMENT
 LABEL:

Vacuum value in kPa

SENSOR	TYPE	WORKVAC.	AVG.VAC.	MAX.VAC.	MIN.VAC.	VAC.+	VAC.-
VAC.DROP							
INT.1 SENSOR	MEDICION TIPO	:LE49.0	25.3	31.9	0.1	6.6	25.2
23.7							
INT.2 SENSOR	MEDICION TIPO	:LE49.0	0.0	0.1	0.0	0.1	0.0
49.0							



Repairs And Calibration Services.

For all these tools with have technical service, that will assist you in possible necessary repairs, and also in calibrations and certifications for your tools.

For that you must phone or e-mail us. We will tell you where to send your tool, well package. In few days it will be returned to you, repaired and with calibration certificate.



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