



“ For cows with a high milk yield we save about 50 seconds in milking time. This results in, on average, 20 seconds per cow per milking. ”

— Henrik Döhrmann

FARM LOCATION: ASENDORF, GERMANY

HERD SIZE: 400

UP TO **10%**
REDUCTION
IN MILKING TIME
WITH NO NEGATIVE
IMPACT ON MILK YIELD*

*compared to MonoVac after 6 months of change. Dairy producer testimonials reflect their real-life experience using DeLaval products. Results in testimonials have not been independently verified and DeLaval does not claim that results are typical. Testimonials do not constitute warranties or guarantees of performance.

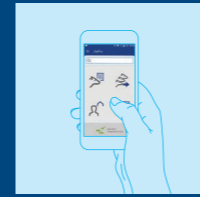


Technologies and Services Enabling DeLaval Flow-Responsive™ Milking:



DeLaval Advisory Services

DeLaval certified trainers will provide training to support start-up of your system. With our Advisory-teams we will help you to get the most out of your system.



DeLaval DelPro™

The latest DeLaval DelPro™ gives you more control than anything we've offered before. By surrounding you with faster, more accurate information, analysis, reports and alerts, you can make more informed decisions on your farm.



DeLaval milk meter

The ICAR approved MM27 milk meter uses IR technology to precisely measure the flow of milk, without any moving parts, making low maintenance yield monitoring possible.



DeLaval Eianza™

The DeLaval Eianza™ cluster with DeLaval TopFlow™ technology and DeLaval Clover™ cartridges works with milk flow to milk quickly, comfortably and efficiently; with a particular focus on helping you to maximise yield. It is simply our most innovative cluster yet.



Vacuum regulation and monitoring

The DeLaval vacuum regulation technology applies the correct vacuum at the right time, and monitors every milking point during the whole milking process.



DeLaval InService™ All-Inclusive

With DeLaval InService™ All-Inclusive we carry out routine maintenance, scheduled servicing and the replenishment of consumables; all for one agreed price and with a payment structure that works for you.

Taking a 360° view of your farm with DeLaval Flow-Responsive™ Milking



Farm Profitability

With Flow-Responsive Milking you can make every second count. The ability to extract more milk than a conventional monovac system, in less time and with less labour is highly beneficial, particularly on large farms.



Work Efficiency

Flow-Responsive Milking makes it possible to streamline your milking processes to create simple, worker-friendly routines that save labour. Milk in less time or milk more cows per session, with less energy and less stress on your team.



Animal Welfare

Shorter milking times mean less stress on teats. Flow-Responsive Milking may improve teat condition and udder health, for a healthy and productive herd.

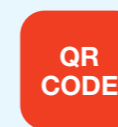


Food Safety

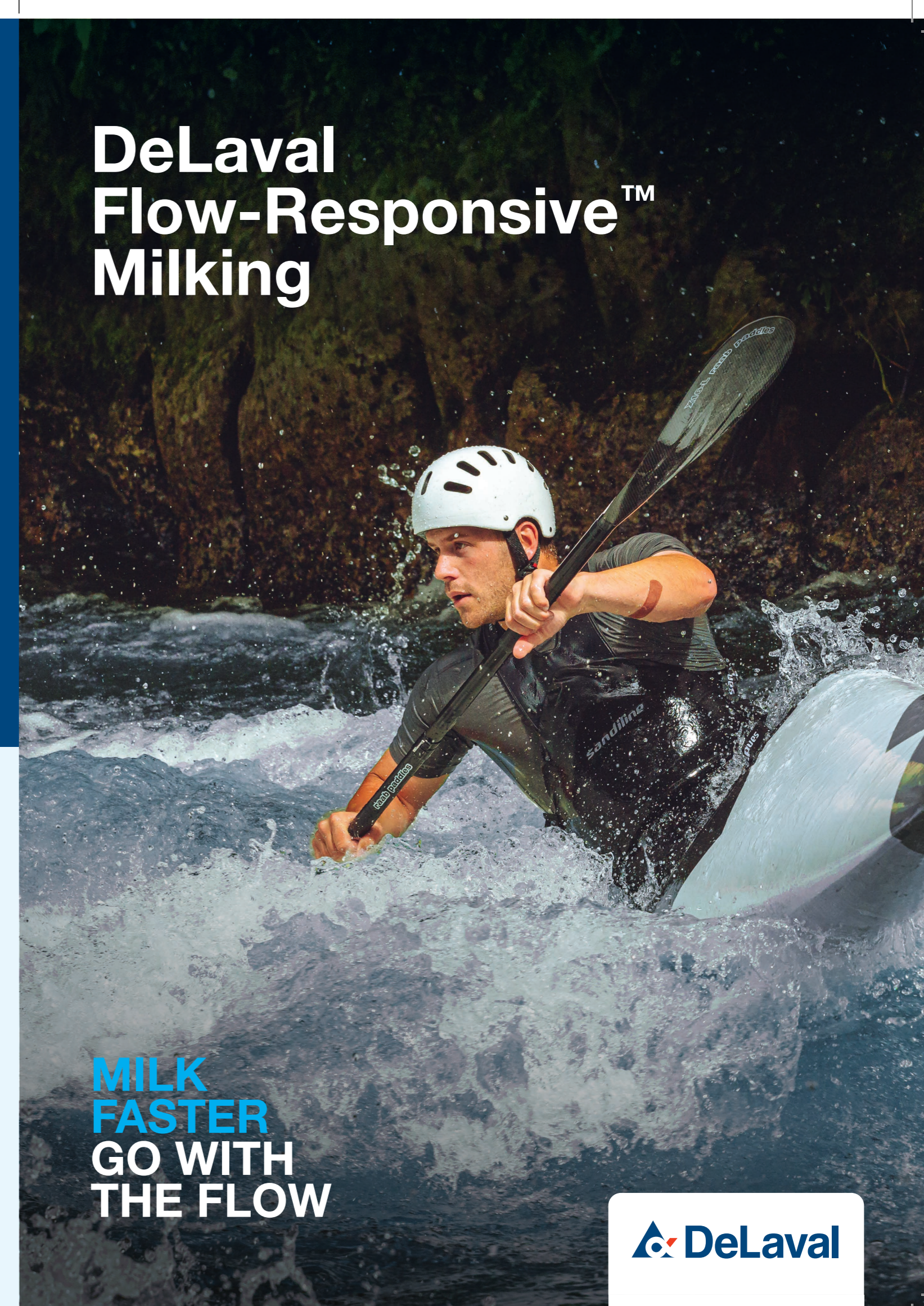
Not only are all materials used with Flow-Responsive Milking food safety approved, but lower instances of mastitis from shorter milking times means more high-quality milk is produced.

Put DeLaval Flow-Responsive™ to work for you

To take the next step on your milking journey, either talk to your trusted DeLaval representative or for more information visit us at www.delaval.com



DeLaval Flow-Responsive™ Milking



**MILK
FASTER
GO WITH
THE FLOW**



WHY IS IT BETTER?

In the past, most milking systems available operated at one pulsation and vacuum level throughout each milking session. This monovac approach means an “average” vacuum level is set to reduce the inevitable gap between the cow’s milk flow and the system’s ability to extract that milk. Now there is a new way with DeLaval Flow-Responsive™ Milking. By more closely following the milk flow of your cows Flow-Responsive Milking is able to adjust the key milking parameters of vacuum and pulsation during each milking session. The outcome is a steeper, shorter milk flow profile.

66%
Less walking distance [1,2]

24%
Less prep time [1,2]

15 sec
Less cups-on time [1]

Last cow ready with Flow-Adjusted Stimulation
>10% faster [1]
-50 sec [1]

40%
Reduction in bimodalities [1]

+5%
Average milk flow [1]

Last cow ready with Flow-Adjusted Vacuum
>7% faster [1]
-25 sec [1]

Less forced take-offs [1]

+9%
Peak milk flow [1]

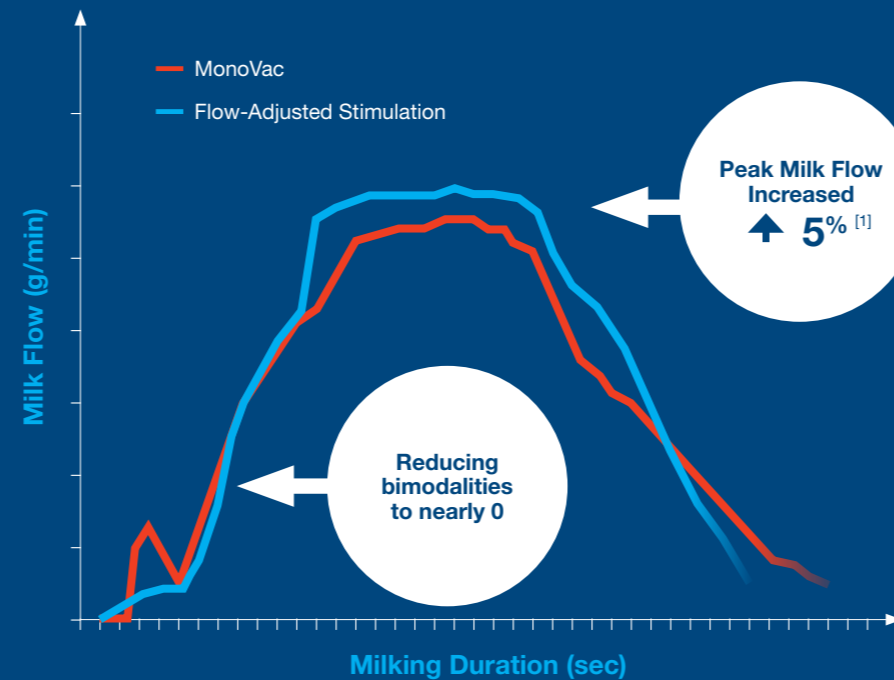
Positive effect on teat-end [1]

DeLaval Flow-Adjusted Milking™

- Flow-Adjusted Stimulation
- Flow-Adjusted Vacuum
- Valid for both Stim & Vac

FLOW-ADJUSTED STIMULATION

Under a monovac system, the vacuum and pulsation levels are set to be effective during the peak milk flow. This means that there always needed to be a delay between stimulation and attachment to avoid the damage caused by high vacuum before oxytocin release and milk let-down. With DeLaval Flow-Responsive™ Milking that waiting period is no longer required. It means you can attach sooner and let the system manage the stimulation process for you, reducing bimodalities, assisting udder health, and in many cases making one-person milking a reality.



i During the Stimu-Phase the applied vacuum is just 34 kPa, pulse 30/70 with 50 bpm. The main-phase is at 42-44 kPa, pulse 65/35 and 60 bpm. Take-off level is between 300-1000 g/min.

IT'S ALL ABOUT THE FLOW

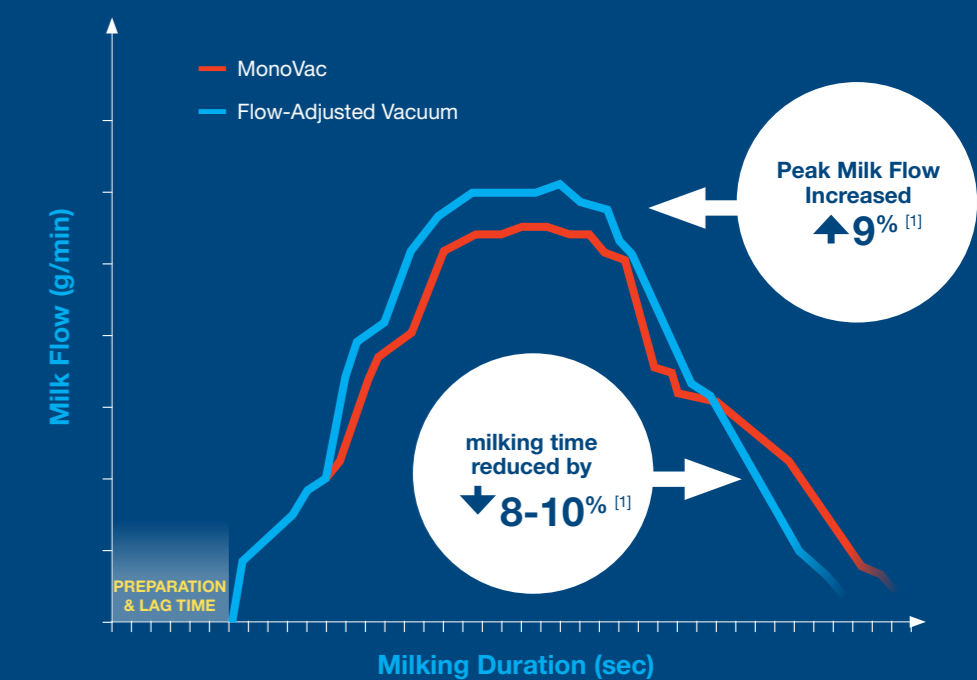
A milking system that doesn't respond to the milk flow of cows is missing the opportunity to milk faster and to help you protect teat condition and animal welfare. With DeLaval Flow-Responsive™ Milking, your milking system can, for the first time, automatically adjust key parameters to better follow, and to better encourage the milk flow of your cows. Avoid the monovac efficiency gap by harnessing milk flow and go with the flow.

DeLaval Flow-Responsive™ Milking can be implemented to all DelPro-connected DeLaval Rotaries and Parlours*.



FLOW-ADJUSTED VACUUM

DeLaval Flow-Adjusted vacuum speeds up your milk-extraction by lifting the vacuum level after stimulation is complete and high milk flow is available, and then reducing levels again once high flow has ended. This ability to adjust vacuum levels helps you to avoid the inevitable trade-off between udder health and productivity that is created by a fixed vacuum level that is either too high or not high enough at any one point in the milking process.



i In the Start-Phase, after proper stimulation, vacuum levels are 42 kPa, pulse 65/35 with 60 bpm. When the flow reaches >2kg/min, the Main-Phase is initiated and vacuum levels are increased to 47-49 kPa, pulse 65/35 and 60bpm.

FLOW-ADJUSTED STIMULATION + FLOW-ADJUSTED VACUUM

DeLaval Flow-Adjusted Stimulation is the ideal choice for any new or existing system and is suitable for both rotary and static parlours.

Stimulation is performed with cups-on, allowing for faster milking and more efficient routines that may save labour and place less stress on milkers.

DeLaval Flow-Adjusted Vacuum is designed to get the most from your herd. With improved milk flow, cows milk-out faster without compromising udder health – an ideal solution for larger operations.

By combining Flow-Adjusted Stimulation and Flow-Adjusted Vacuum it is possible to achieve the best of both solutions:

- More efficient routines
- Higher peak milk flow
- Faster milking times
- Positive effects on teat end condition
- Improved processes for milkers
- Reduced preparation times

[1] These are results producers were able to achieve on test farms. Results may vary and are not guaranteed. Difference can be seen related to numbers of milkings per day.
[2] Data recorded in static parlour.
*Compatible with DeLaval milking point MPC580 onwards. For Flow-Adjusted Vacuum an internet connection is required.