

# All the advantages in one device – with ProMinent

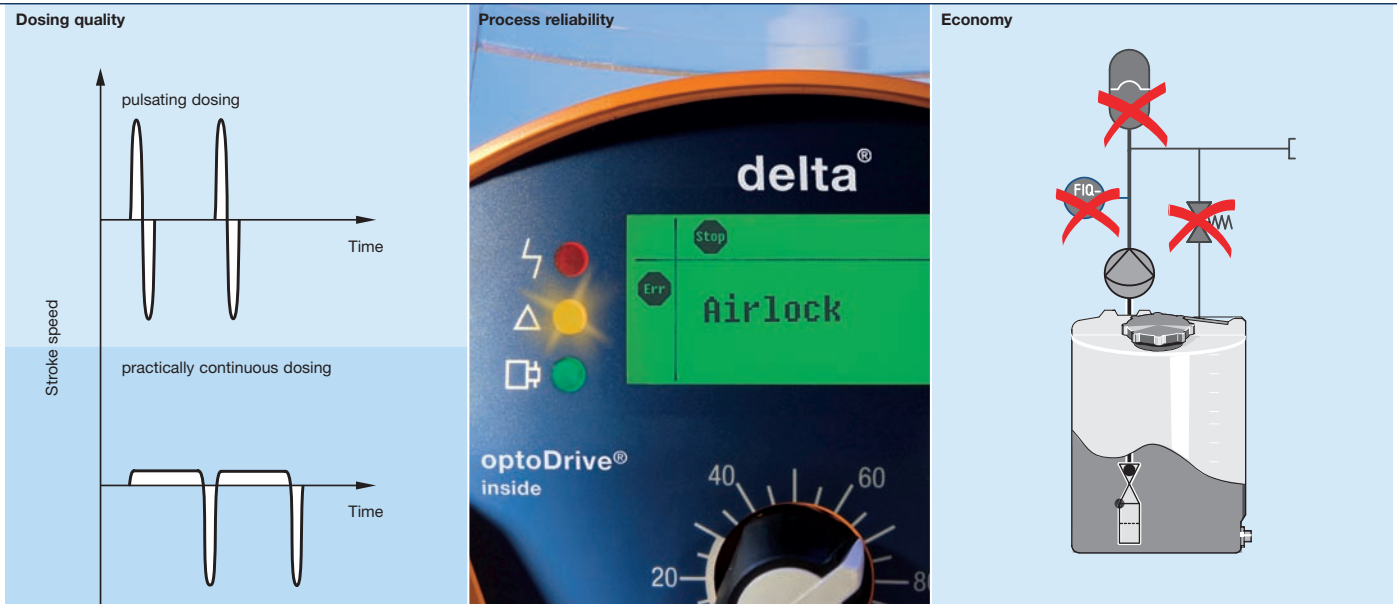
The new diaphragm metering pump delta® with optoDrive®

ProMinent®

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# optoDrive® – a revolution in drive technology



The innovative optoDrive® technology offers all the advantages in one drive: maximum dosing quality, process reliability and economy.

## Advantage 1: maximum dosing quality

- Continuous or pulsating dosing, according to the application
- The duration of the suction stroke can be matched to the dosing medium. A slow suction stroke prevents incomplete filling of the dosing head with high-viscosity fluids and prevents cavitation with effervescent media. This prevents incorrect quantities being dosed
- optoDrive® automatically compensates for fluctuations in back pressure in the dosing line. As a result, a level of dosing accuracy is achieved that could otherwise only be attained with complex control loops

## Advantage 2: maximum process reliability

- The drive's integrated injection control - optoGuard - ensures that the required dosing quantity actually reaches the process
- optoGuard detects blocked dosing points or broken dosing lines. This protects the environment from damage resulting from continuous dosing with a broken line
- Air or gas trapped in the dosing head ("air-lock") are also detected. Thus preventing incorrect quantities being dosed

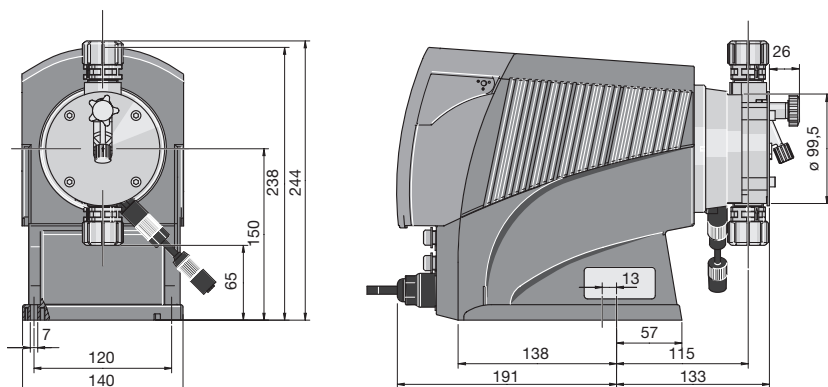
## Advantage 3: maximum economy

- optoDrive® reduces the procurement costs of dosing systems as there is no need for separate flow monitors, relief valve assemblies and pulsation dampeners
- The optoDrive® drive is overload-proof on principle. A very low number of moving parts ensures practically wear-free operation
- The wide field of application of the optoDrive® drive reduces product diversity and so reduces the variety of spares for plant operation



Diaphragm metering pump delta®

# delta® – perfection in dosing performance



delta® series with optoDrive® drive technology for maximum possible adaptation to the dosing duty and control of hydraulic peripherals.

- Capacity range 12-80 l/h, 16-2 bar
- Adjustment and display of the feed rate from the keypad with choice of display in l/h or strokes/min
- Large backlit graphic display
- Diverse control options via volt-free contacts and 0/4-20 mA standard signal
- Optional interfaces for PROFIBUS® or CAN bus
- 14-day process timer option for time and event-dependent dosing duties

The delta® series is available in two material versions.

- PVDF for dosing of practically all chemicals, especially corrosive acids and lyes
- Stainless steel for applications in the chemical and chemical-pharmaceutical industry, e.g. for organic solvents

delta®					
Pump type	[bar]	[l/h]	Strokes/min	Suction lift [m WG]	Connector size (ext. Ø x int. Ø mm)
1612	16	12	200	6	8 x 5
1020	10	20	200	5	12 x 9
0730	7	30	200	5	12 x 9
0450	4	50	200	3	DN 10
0280	2	80	200	2	DN 10
Process-wetted materials					
Version	Dosing head	Suction/discharge connector	Seals	Ball valves	
PVT	PVDF	PVDF	PTFE	Ceramic	
SST	Stainless steel Mat. No. 1.4404	Stainless steel Mat. No. 1.4404	PTFE	Ceramic	



Further information:  
[www.prominent.com/optodrive](http://www.prominent.com/optodrive)

## World-wide contact



ProMinent is at home in more than 100 countries of the world. This guarantees world-wide availability of the products and short distances to the customer. We offer you the same high quality standard in products and services worldwide. For you at your location: experience and know-how in water treatment and chemical fluid handling are available world-wide.

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**Experts in Chem-Feed and Water Treatment**