



## DIGITAL DOSING™

# DME

### 0.00066 to 12.68 g/h (48 l/h)

The DME series of high-precision diaphragm pumps are the cornerstone of the highly successful Digital Dosing series from Grundfos. They were the first to combine high-precision dosing with unprecedented user-friendliness, and they remain the best in the business today.

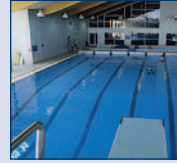
The DME 0.00066 g/h – 12.68 g/h (2.5 ml/h – 48 l/h) pumps use stepper-motor technology in an entirely new way. The variable-speed motor remains in contact with the diaphragm throughout the entire discharge/suction cycle, controlling its speed at all times. This ensures a much greater level of control compared to traditional dosing pumps.

#### User-friendly dosing

The Digital Dosing range eliminates the need for complicated calculations associated with other dosing equipment. In effect, the simple user interface lets you be your own dosing specialist, using a minimal number of buttons to give access to an impressive range of control features.

#### Variable speed for smooth dosing

The ingenious stepper motor runs continually, ensuring that the discharge phase extends throughout the full period between suction phases. This gives a better, more even mix. The motor automatically adjusts the dosing speed to provide the right amount of additive at all times.



#### Full stroke length at all times

Grundfos uses a full stroke length every time, thereby improving accuracy and efficiency. The stroke speed is carefully adjusted to ensure even concentrations of additive in your media.

#### Turndown ratio 1:1000

The Digital Dosing range is designed to give you superior flexibility and accuracy with a minimal number of pump variants. With a turndown ratio of 1:1000, the DME range will remain accurate even when dosing in very small amounts.

#### Anti-cavitation

The variable speed of the DME pumps facilitates a unique anti-cavitation function for high-viscosity liquids. This function gives you slower suction speed (70% of the maximum speed), thereby ensuring optimal priming and pumping of even the most difficult liquids.

#### Calibration

With Digital Dosing, calibration is easier and faster than ever. Simply place a graduated glass under the pump and activate the calibration program. The pump will perform 100 strokes and indicate how much it thinks it has pumped. Adjust the figure by entering the correct numbers if necessary. After this dosage can be adjusted without recalibrating the pump.

#### 14 different languages

As part of the Digital Dosing series, Grundfos DME pumps can be set to one of 14 different languages, making them perfect for integration in products aimed at a worldwide market.

#### Counter

The built-in counter function provides easy access to information about the accumulated number of strokes, accumulated operating hours and flow, as well as the total number of times the pump is switched on.

#### Several material variants

The DME pump heads are available in several different materials to suit your situation: stainless steel, PVDF, and polypropylene for an environmentally friendly and cost-efficient alternative.

Dimensions [in (mm)]

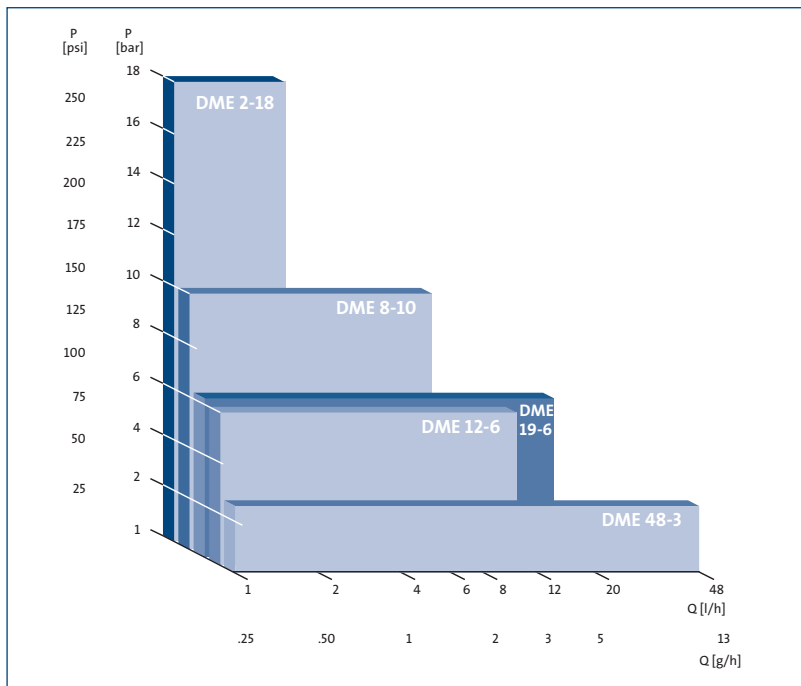
	DME 2	DME 8	DME 12	DME 19	DME 48
A		5 7/16 (137)		7 9/16 (192)	
B		9 7/16 (239)		7 11/16 (194)	
C		1 7/16 (36)		5/8 (15)	
D		6 5/8 (168)		7 7/16 (188)	

Product range and performance data DME 0.00066 - 12.68 g/h (2.5 ml/h - 48 l/h)

Pump type		DME 2-18	DME 8-10	DME 12-6	DME 19-6	DME 48-3
Capacity at max. pressure	g/h (l/h)	0.66 (2.5)	1.98 (7.5)	3.17 (12)	4.89 (18.5)	12.68 (48)
Max. pressure	psi (bar)	261 (18)	145 (10)	87 (6)	89.9 (6.2)	37.7 (2.6)
Setting range		1:1000	1:1000	1:1000	1:1000	1:1000

Stroke frequency	spm	180				
Suction lift	ft (m)	19.7 (6)				
Viscosity	cps	500				
Power supply	V, Hz	1×100-240, 50-60 Hz				
Accuracy	%	±1% repeatability - full range				

Performance range



Additional features

**Pulse**

The pump is dosing according to an external pulse signal, e.g. from an external water meter.

**Analog**

The pump is dosing according to an external analog signal. The dosage is proportional to the input value in mA.

**Timer**

Integrated timer function, which enables the pump to dose a specific entered batch at maximum capacity according to the timer settings.

**Batch**

The pump doses a specific entered batch at maximum set capacity when receiving an external pulse signal.

**Lock**

Protect the pump settings by enabling the electronic lock.

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Subject to alterations