DIGITAL DOSING
up to 12 l/h

The Digital Dosing range of high-precision diaphragm pumps from Grundfos comes with different motor types to suit your project specifications. As an excellent alternative to the DME series (stepper-motor variants), the DMS A and B series uses synchronous motors to provide the user-friendliness and exact dosing you expect from any Grundfos Digital Dosing pump. Simply specify the desired dosage via the easy-to-use display, and the pump will handle the rest.

The synchronous motor in the DMS pumps runs at constant speed, stopping only between cycles. This means that the DMS pump automatically regulates dosage by increasing or decreasing the stroke frequency. Full stroke length is maintained at all times, ensuring optimum suction conditions and eliminating the need for re-calibration when ajusting dosage.

User-friendly display
The simple user interface lets you be your own dosing specialist. With a minimal number of buttons you can navigate the straightforward menus to use the impressive range of control features.

Turndown ratio 1: 100
The Digital Dosing range is designed to give you superior flexibility and accuracy with just a few variants. With a turndown ratio of 1:100, the DMS range will remain accurate even when dosing in very small amounts, eliminating the need to have several different pump types for dosing on different scales.

Full stroke length at all times
Grundfos uses a full stroke length every time, thereby removing a number of potentially disruptive factors. The strokes are carefully timed, ensuring even concentration of additive in your media. They also give you optimal suction conditions throughout the entire operating range.

Synchronous motor for precise dosing
The ingenious design of the Digital Dosing pumps combines robustness and precision thanks to efficient motor technology. The synchronous motor used in the DMS models gives the pump full control over the process, providing low pulsation and accurate dosing.

Several material variants
The DMS 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.

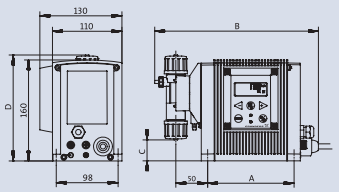
Calibration
With Digital Dosing, calibration is easier and faster than ever. Simply place a graduated glass under the pump and activate the calibration program. The pump will perform 100 strokes and indicate how much it theoretically has pumped. Adjust the figure by entering the correct numbers if necessary.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

14 different languages
As the only Digital Dosing range in the world, the Grundfos DMS pumps have 14 different language versions, making it perfect for integration in products aimed at a worldwide market.

Counter
The built-in counter function gives you 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.

Dimensions (mm)

	DMS 2	DMS 4	DMS 8	DMS 12
A	137			
B	239			
C	36			
D	168			



Product range and performance data DMS 25 ml/h - 12 l/h

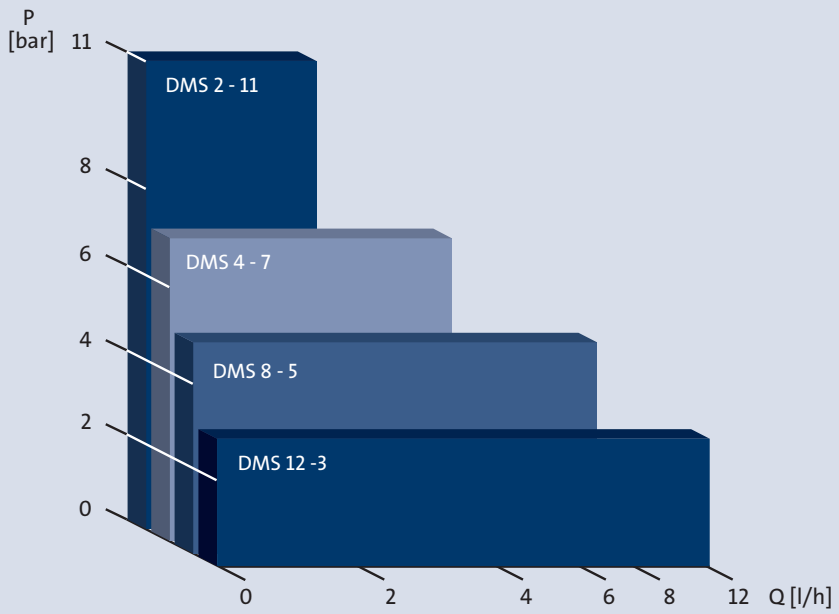
Pump type		DMS 2-11	DMS 4-7	DMS 8-5	DMS 12-3
Capacity at max. pressure	[l/h]	2.5	4	7.5	12
Max pressure	[bar]	11	7	5.4	3.4
Setting range		1:100	1:100	1:100	1:100

Stroke frequency	[min^{-1}]	180
Suction lift	[m]	6
Viscosity*	[mPa]	500
Power supply	[V], [Hz]	1×230, 50 Hz - 1×120, 60 Hz - 1x100, 50 Hz
Accuracy	[%]	±1% repeatability

**Spring-loaded valves*

Performance range

Pump type



Additional features

Pulse*
The pump is dosing according to an external pulse signal, e.g from an external watermeter.

Analog*
The pump is dosing according to an external analog signal. The dosed capacity is proportional to the input value in mA.

Lock
Control panel lock to prevent maloperation.

** DMS A only*

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