

GRUNDFOS ALLDOS DDI



motralec

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DIGITAL DOSING™ up to 20 l/h

The difference is digital

The DDI range was created because dosing is precision work. But it need not be hard work. These compact units combine perfect precision with a user interface that lets you set the dosing rate you want directly on the unit – without spending time on complicated calculations beforehand. The DDI is an excellent addition to the well-proven DME range.

The DDI AR: Taking diaphragm dosing pumps to the next level

The DDI AR series is the backbone of the overall DDI range. Its innovative drive technology combines a powerful stepper motor with integrated contact signal control to bring you smoother, more accurate dosing. The user interface gives you a full range of options for customising the dosing process.

The DDI AM: Three-in-one dosing

The DDI AM models have all of the overall DDI benefits and bring you three-in-one dosing: it doses, measures, and regulates all by itself. It eliminates the need for additional equipment by combining precision dosing, continuous flow measurement, and setpoint monitoring in a single unit.

Does the hard work for you

The DDI range eliminates the need for extensive calculation work associated with other dosing equipment. You won't need to work out how many strokes per minute are necessary to give you the desired dosing rate – simply enter the figure you want in the user interface, and the DDI does the work for you.

Smooth dosing through variable speed

The DDI never rushes things. It has an ingenious stepper motor that extends the discharge phase throughout the full period between suction phases. In other words, it automatically adjusts the dosing speed to provide the right amount of additive at all times. No jerky movements here – just smooth, even dosing.

Full stroke length at all times

The DDI does not pull punches: it uses a full stroke length every time, thereby eliminating potential disruptive factors such as gas build-up. Rather than adjusting the stroke length by shortening it to suit dosing demand, the DDI carefully times each full stroke to ensure even concentrations of additive in your media.

Turndown ratio 1:100

The DDI range is designed to give you superior flexibility and accuracy with as few product variants as possible. That is why you can adjust dosing rates within a 1:100 scale without any loss of dosing accuracy: the DDI series can dose additive in quantities down to 0.025 l/h with perfect precision – and evidence of this precision can be provided at any time while the pump is running.

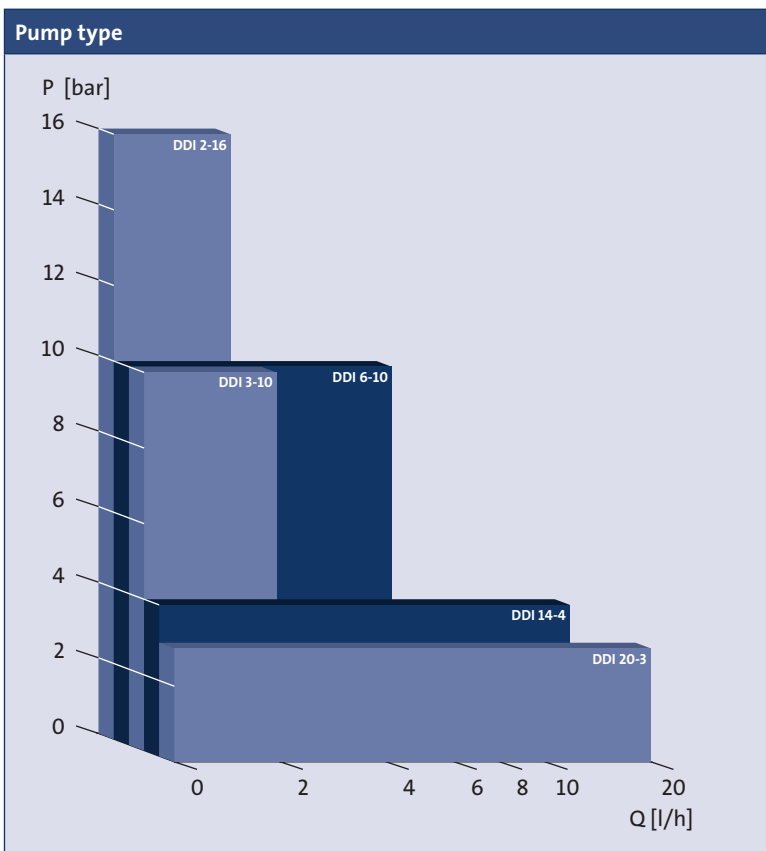
Reliable dosing of viscous liquids

When you wish to dose viscous liquids, many conventional dosing pumps struggle to maintain reliability. By contrast, the DDI series has a special Slow Mode function which decelerates the suction stroke, thereby maintaining reliable dosing.

Technical Specifications

DDI	Max. capacity (l/h)	Max. pressure (bar)	Freq. 50Hz (spm)	Stroke volume	Voltage	Accuracy		Max. suction lift	Turndown ratio
						Flow	Linearity		
DDI 2-16	2.2	16	180	0.276	1 x 110 V - 240 V, 50/60 Hz	+/- 1,5%	4 m	1:100	
DDI 3-10	2.5	10	180	0.276					
DDI 6-10	5.5	10	180	0.587					
DDI 14-4	13.8	4	180	1.26					
DDI 20-3	20	3	180	1.95					

Performance range



Application areas

- ▶ Treatment of industrial and municipal water
- ▶ Industrial cleaning
- ▶ Carwashes
- ▶ Paper production/paper finishing
- ▶ Optical technology and chip production
- ▶ Chemical industry
- ▶ CIP cleaning and disinfection (dairies, breweries, etc.)
- ▶ Galvanic industry and surface treatment
- ▶ Air conditioning/cooling towers

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