



## DIGITAL DOSING from 0.001 to 5.28 GPH (0.025 to 20 l/h)

### The difference is digital

The Grundfos DDI range was created because accurate dosing demands precision. These compact units combine perfect precision with a user interface that lets you set the dosing feed rate you want directly on the pump – without spending time on complicated calculations beforehand. Available materials include PVC, PVDF, polypropylene, and 316 stainless steel.

### 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 customizing 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, and self-calibrates all by itself. It eliminates the need for additional equipment by combining precision dosing, continuous flow measurement, and setpoint monitoring in a single unit.

### Smooth dosing through variable speed

By using a full stroke length (100%) through its entire adjustable range, the DDI does not sacrifice accuracy at low feed rates, and eliminates potential disruptive factors such as gas build-up. Rather than adjusting the stroke length to suit demand, a stepper motor carefully adjusts the speed of each stroke to ensure a smooth, even delivery of the pumped media.

### Turndown ratio 100:1

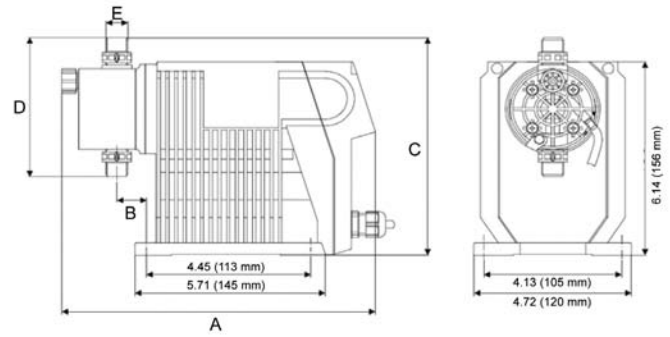
The DDI range is designed to give you superior flexibility and accuracy with as few product variants as possible. That is why you can slow down the feed rate to 1/100 the pump's maximum capacity without any loss of accuracy. The DDI series can dose additive in quantities down to 0.001 GPH (0.025 l/h) with perfect precision. Evidence of this precision can be provided at any time while the pump is running – it runs with nearly continuous flow, with no pauses between strokes.

### Reliable dosing of viscous liquids

To facilitate handling viscous fluids, the suction stroke speed can be slowed down to reduce friction losses. Simply enable the Slow Mode to decelerate the suction stroke, thereby maintaining superior reliability.

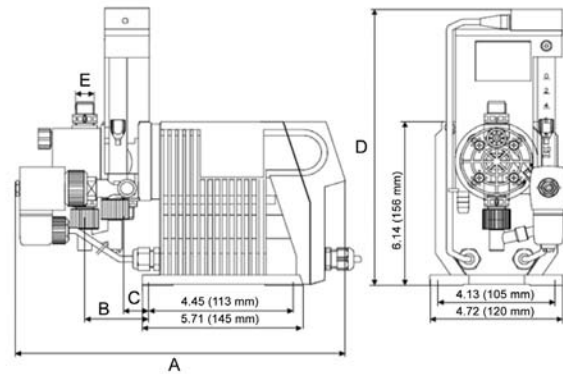
**DDI AR dimensional data**

DDI Pump	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E
0.4-10	9.41 (239)	0.91 (23)	6.91 (175.5)	4.41 (112)	G 3/8
2-16	9.41 (239)	0.91 (23)	6.91 (175.5) [8.17*]	4.41 (112) [6.93*]	G 3/8 [G 5/8*]
3-10	9.41 (239)	0.91 (23)	6.91 (175.5) [8.17*]	4.41 (112) [6.93*]	G 3/8 [G 5/8*]
6-10	9.41 (239)	0.91 (23)	6.91 (175.5) [8.17*]	4.41 (112) [6.93*]	G 3/8 [G 5/8*]
14-4	9.45 (240)	1.14 (29)	7.28 (185)	5.24 (133)	G 5/8
20-3	9.45 (240)	1.14 (29)	7.28 (185)	5.24 (133)	G 5/8



**DDI AM dimensional data**

DDI Pump	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E
0.4-10	11.73 (298)	2.4 (61)	0.98 (25)	10.43 (265)	G 3/8
2-16	11.73 (298)	2.4 (61)	0.98 (25)	10.43 (265)	G 3/8
3-10	11.73 (298)	2.4 (61)	0.98 (25)	10.43 (265)	G 3/8
6-10	11.73 (298)	2.4 (61)	0.98 (25)	10.43 (265)	G 3/8
14-4	-	-	-	-	-
20-3	-	-	-	-	-



NOTE: Dimensions are only for standard pump heads.  
 \*Adjusted dimensions for high viscosity option

**Technical specifications**

DDI Pump	Max capacity		SPM (at 60Hz)	Max suction lift ft AR (AM)	Max viscosity cps AR (AM)
	GPH AR (AM)	psi			
0.4-10	0.1 (0.1)	145	180	- (5)	500 (100)
2-16	0.58 (0.5)	232		13 (5)	1000 (100)
3-10	0.66 (0.58)	145		13 (5)	500 (100)
6-10	1.45 (1.29)	145		13 (5)	500 (50)
14-4	3.64 (n/a)	58		9	500 (n/a)
20-3	5.28 (n/a)	43.5		9	500 (n/a)

**Application areas**

- > Treatment of industrial and municipal water
- > Industrial cleaning
- > Polymer feed
- > 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
- > Reverse osmosis systems
- > Semi-conductor industry

**Additional data**

Accuracy	Repeatability	< +/- 1.5% throughout adjustable range
Control methods	Manual, Analog, Pulse, Batch timer	
Output signals	0(4)-20 mA, alarm relay, low-level and empty tank	
Power Supply	100 - 240 V, 50/60 Hz	

**Additional options**

Plus3	Auto degassing for sodium hypochlorite and other difficult liquids
Leak detection	Diaphragm failure indication
Flow monitor	Monitor flow in the pump head without additional sensors or controls
ProfiBus	Fieldbus communication

L-DDI-SL-01 5/06 (US)  
 Subject to alterations