

DDE – SMART Digital Series Pumps (0.0015 to 4.00 gph)



The DDE SMART Digital dosing series represents the latest generation on the Digital Dosing pumps from Grundfos. Available in two sizes and two control options, the DDE range represents an economic and simple alternative for basic dosing applications.

Although it appears to be a solenoid pump, the DDE is actually STEPPER MOTOR DRIVEN. Whichever model you choose, you get a sturdy, cost-efficient pump based on a well-proven stepper motor design.

With its 1000:1 turn down ratio, removable mounting bracket and easy to use control knob, the DDE product range brings simplicity and a budget-friendly solution for chemical injection.

Smooth and Continuous Dosing

The DDE stepper motor technology ensures optimum mixing ratio at the injection point without the need for additional accessories, such as static mixers. It also provides a significant reduction of pressure peaks, preventing mechanical stress on wearing parts such as diaphragm, tubing, and connections, resulting in less maintenance required.

Full Stroke Length at All Times

The pump always operates at full stroke length, irrespective of the capacity set; this ensures maximum volume displacement per stroke, optimum accuracy, easy priming and improved suction.

1000:1 Turndown Ratio

The Digital Dosing range is designed to give you superior flexibility even when dosing very small volumes.

Easy Priming (P Model only)

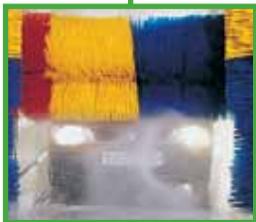
The convenient and efficient priming button makes tedious priming processes a thing of the past. Simply push the button and set the number of seconds you want the pump to prime for, and the pump will do it for you.

Silent Operation

Regardless of model, the DDE pump is among the most quiet of its type available on the market today. It keeps its noise emission down to just 60 dB(A).

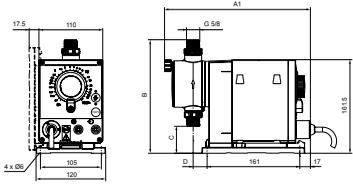
Different Control Options and Materials

Available in two different control options: B / P (Basic / Pulse). The DDE series is an economic alternative for many applications—stainless steel, PVC, PVDF, and polypropylene for an environmentally-friendly and cost-efficient alternative.



Dimensions [inches (mm)]

	DDE 6	DDe 15
A	11 (280)	11 (280)
B	7.72 (196)	7.89 (200.5)
C	1.83 (46.5)	1.55 (39.5)
D	0.94 (24)	0.94 (24)



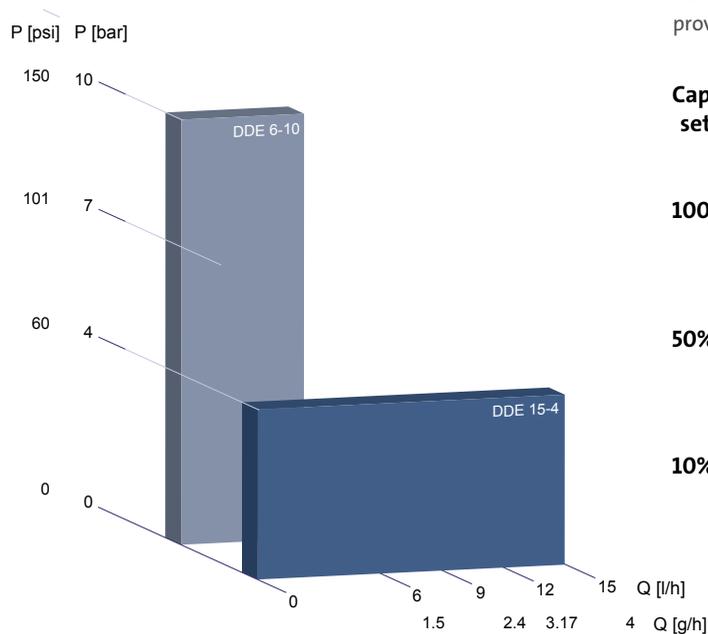
Product Range and Performance Data

Pump type	Capacity	DDe 6-10	DDe 15-4
capacity at max. pressure	g/h (l/h)	1.5 (6)	4.0 (15)
max. pressure	psi (bar)	150 (10)	60 (4)
Setting range		1000:1	1000:1

Stroke frequency	spm	140	180
Suction lift: primed/dry	ft (m)	19.6 (6)/6.5 (2)	19.6 (6)/9.8 (3)
Viscosity*	cps	600/50	500/50
Power supply	V, Hz	100-240 V 50/60 Hz	100-240 V 50/60 Hz
Accuracy	%	+/-5	+ / -5

*With Spring-Loaded valves

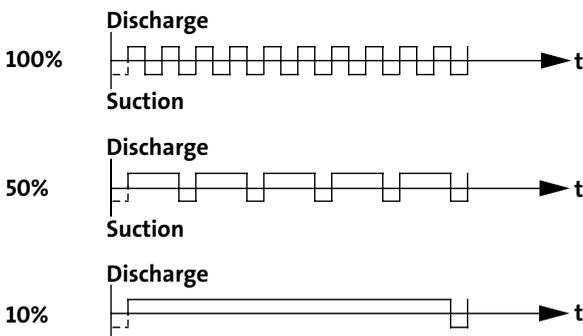
Performance Range



Functional Description

DDE's electronically controlled variable-speed (stepper) motor provides optimum control of the stroke speed.

Capacity setting



Relation between stroke-frequency adjustment and capacity