

Precision Syringe Pumps

Product Line Overview

When **ACCURACY** is critical . . .

. . . and the heat is on for high flowrate performance, you can't afford less than the best. Teledyne Isco's line of precision syringe pumps deliver incredible performance in a wide range of applications.

- Up to 20,000 psi
- Pulseless flow
- Sub-microliter to over 400 ml/min
- Flowrate accuracy - $\pm 0.5\%$ or better
- Chemical feed
- Supercritical fluids
- Pharmaceutical process development

Isco D-Series precision syringe pumps give you accurate, predictable flow and pressure control throughout a remarkable operating range. D-Series pumps don't exhibit pulsation or flow anomalies typically associated with other pump types. They're specifically designed to handle aqueous

and organic liquids, corrosive solutions, heated fluids, liquefied gases, viscous fluids, or slurries and pastes. All can be metered with great accuracy.



Operating Modes

- Constant flow with up to three pumps
- Constant pressure with up to three pumps
- Flow or pressure programming with a single pump
- Continuous flow or pressure with dual pump
- Gradient flow programming

External Interface

- RS232 serial interface
- Analog voltage inputs
- Digital input and outputs



Exclusive "Smart Key" Controller



Operate two or three pump modules independently from one controller. Parameters for each pump are individually displayed.



Single and Dual Pumps- six models from 67 ml to 1 liter capacity, and 2,000 to 20,000 psi

Isco D-Series Syringe Pumps

Syringe pump model	1000D	500D	260D	100DM/DX	65DM	65D
Nominal syringe capacity, ml	1000	500	260	100	67	67
Maximum pressure, psi:	2,000	3,750	7,500	10,000	10,000	20,000
Flow rate: min settable, ml/min	0.1	0.001	0.001	0.00001	0.00001	0.00001
maximum, ml/min	408	204	107	25/50	25	25



Try our on-line tool to select your single or dual-pump configuration. Visit www.isco.com/pumpselector.

Dual-pump continuous flow systems - non-stop pumping with choice of pneumatic, electric, or passive valves

Isco D-Series Dual Pump Systems

Electric Valves	E1000	E500	E260	E100		
Pneumatic (Air) Valves	A1000	A500	A260	A100	A65DM	A65
Nominal syringe capacity, ml	1000	500	260	100	67	65
Maximum pressure, psi:	2,000	3,750	7,500	10,000	10,000	20,000
Flow rate: min settable, ml/min	0.1	0.001	0.001	0.00001	0.00001	.00001
maximum, ml/min	265	132	70	16/32	25	16



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