

Chemical Dosing Systems

Capacity: 6 to 120 GPD

**CDS
SERIES**

Pure Aqua supplies a comprehensive selection of dosing pump systems for small to large-scale applications within disinfection, flocculation, and pH adjustment. Our engineers have expertise in proposals regarding “plug and pump” including complete packages. We manufacture chemical dosing systems with custom-made solutions that are intended to produce available dosing technology in complete packages. The Pure Aqua CDS series chemical dosing systems offer a wide range of capacities to meet various chemical treatment applications. Each system includes the chemical metering pump and polyethylene chemical tank, along with the necessary hoses and fittings for the pump.

Standard Features

Diaphragm Metering

- Fully adjustable output capacity from 6-120 GPD
- Manual function control for stroke rate & length
- Highly reliable timing circuit
- EMI resistant
- Thermally protected solenoid with auto-reset
- Bleed valve assembly
- Plastic pvc head/fittings and polyethylene tank for a wide range of corrosion resistance to such chemicals as mild acid, chlorine, and caustic solution

Digital Metering

- Maximum turn-down ratio of 1:1000
- Dosing rate is set using a logarithmic scale that runs from 0.1-100%

Available Options

- 230V/1ph/50Hz or 60Hz
- Epoxy coated stainless steel mixer
- pH controller
- ORP controller
- Stand-by pump
- Skid mounted unit
- Custom built unit
- Pump maintenance spare kit
- Level switch
- Local control panel



Applications

- Water purification and pollution control
- Iron, hydrogen sulfide & manganese removal
- Scale prevention
- Acid water neutralization
- Coagulation and turbidity removal
- Waste water treatment
- Food processing
- Detergent and wetting agent metering
- Swimming pool treatment
- Liquid fertilizer treatment
- Hydroponics nutrient treatment
- Municipal water treatment
- Algae control
- Livestock water treatment



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Pure Aqua CDS series provides chemical dosing pumps that comprise a complete package with fully custom engineering, corrosion-resistance, and pre-packaging. This package consists of the capacity to utilize specific pump technology best suited for your intended use. The CDS series allows engineers and specialists in this field to outline the most effective chemical feed system for their water treatment application. The specialized features of our chemical feed system give it further advantages that separate it from similar systems in the market. These features include a compact and transportable preorganized skid with great security, corrosion resistance, and alternative choices of metering pumps available.

Water Treatment Applications and Uses:

- 💧 pH neutralization
- 💧 Disinfection
- 💧 Coagulation and flocculation
- 💧 Sodium hydroxide feed
- 💧 Sulfuric acid dosing
- 💧 Fluoride treatment
- 💧 Potassium permanganate dosing
- 💧 Dispersant polymer dosing
- 💧 Alum feed
- 💧 Antiscalant addition
- 💧 Hydrochloric acid metering
- 💧 Sodium hypochlorite systems
- 💧 Dechlorination SMBS



Model #	Output Capacity		Max Pres- sure (PSI)	Pump Material			Tubing Connection	Electrical Data		NSF Rating	Tank Size (Gal)
	GPD	LPD		Dosing Head	Valve Ball	Gas-ket		Watts	Enclosure Class		
Diaphragm Metering											
CDS-6	6	23	100	PVC	Ceramic	Teflon	3/8" OD	130	IP41/NEMA3	125	15
CDS-12	12	45									15
CDS-22	22	83									15
CDS-30	30	114									35
CDS-48	48	182				50					
CDS-76	76	284				100					
CDS-96	96	356				100					
CDS-120	120	454				150					
Digital Metering											
CDS-36-G-15	36	136	145	PVC	Ceramic	EPDM	1/4" OD	19	IP65/ NEMA 4X	Yes	15
CDS-36-G-35							35				
CDS-96-G-55	96	356	60				3/8" OD				55
CDS-96-G-100							100				

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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