

The Chem-Tech Series 100 is the standard by which all other dosing pumps are judged, Chem-Tech Series 100/150 pumps with motorized-diaphragm technology deliver dependable performance and extended longevity. The Series 100/150 provides quiet, consistent metering over long periods of time in a compact form.

A tried-and-true electric motor transfers power via a sealed gearbox and eccentric cam for smooth, **reliable** dosing.

Simple, adjustable system with knob and locking lever provide **easy** flow rate control and turndown.

The compact, injection-molded housing and clear pump head offer both **affordability** and chemical resistance.

The industrial grade, low-stress diaphragm provides **long life**, even in harsh conditions and continuous duty cycles.

Series 100 Models - The preferred metering pump for water conditioning professionals around the world. Perfect for applications where economical, consistent performance is required. Capable of a wide range of flows, from less than 3 USGPD (0.47 lph) up to 30 USGPD (4.72 lph) and pressures up to 100 PSIG (7 BAR).

Series 150 Models - Built upon the same solid platform as the 100 Models, these units are capable of higher flow rates. With a range offering up to 100 USGPD (15.76 lph), the Series 150 can meet the demands of larger applications. Maximum pressure is 60 PSIG (4.2 BAR).

Features

- Guided Quad Check Valve System.
- Bleed Valve Assembly Standard.
- Feed Rate Control.
- Duplex Models. Both Series are configurable for dosing two chemicals at different rates.

Controls



Feed Rate Control

- Adjustable Feed Rate.

Operating Benefits

- Reliable metering performance.
- Sealed gear train.
- Easy tube change-out.
- Self priming.
- Chemical resistant materials.
- Simple installation.



Aftermarket

- KOPkits
- Gauges
- Dampeners
- Pressure Relief Valves
- Tanks
- Pre-Engineered Systems
- Process Controllers (PULSAblue, MicroVision)



Specifications and Model Selection

MODELS:	MODELS:
Series 100	Series 100D Duplex Pump
X003 = 3 gpd (0.47 lph) max pres.: 100 PSI (7 BAR)	144 = 4.0 gpd (0.63 lph) / 4.0 gpd (0.63 lph) max pres.: 50 PSI (3.5 BAR)
X007 = 7 gpd (1.00 lph) max pres.: 100 PSI (7 BAR)	145 = 5.0 gpd (0.79 lph) / 4.0 gpd (0.63 lph) max pres.: 50 PSI (3.5 BAR)
X015 = 15 gpd (2.34 lph) max pres.: 100 PSI (7 BAR)	155 = 5.0 gpd (0.79 lph) / 5.0 gpd (0.79 lph) max pres.: 50 PSI (3.5 BAR)
X024 = 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR)	244 = 6.5 gpd (1.03 lph) / 6.5 gpd (1.03 lph) max pres.: 75 PSI (5.25 BAR)
X030 = 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR)	245 = 7.5 gpd (1.18 lph) / 6.5 gpd (1.03 lph) max pres.: 75 PSI (5.25 BAR)
Series 150	255 = 7.5 gpd (1.18 lph) / 7.5 gpd (1.18 lph) max pres.: 75 PSI (5.25 BAR)
X068 = 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR)	264 = 12.0 gpd (1.89 lph) / 8.0 gpd (1.26 lph) max pres.: 60 PSI (4.2 BAR)
X100 = 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR)	265 = 12.0 gpd (1.89 lph) / 9.0 gpd (1.43 lph) max pres.: 60 PSI (4.2 BAR)
	344 = 14.0 gpd (2.21 lph) / 14.0 gpd (2.21 lph) max pres.: 75 PSI (5.25 BAR)
	345 = 18.0 gpd (2.84 lph) / 14.0 gpd (2.21 lph) max pres.: 75 PSI (5.25 BAR)
	355 = 18.0 gpd (2.84 lph) / 18.0 gpd (2.84 lph) max pres.: 75 PSI (5.25 BAR)
	364 = 25.0 gpd (3.94 lph) / 15.0 gpd (2.37 lph) max pres.: 60 PSI (4.2 BAR)
	365 = 25.0 gpd (3.94 lph) / 19.0 gpd (3.0 lph) max pres.: 60 PSI (4.2 BAR)
	444 = 30.0 gpd (4.72 lph) / 30.0 gpd (4.72 lph) max pres.: 75 PSI (5.25 BAR)
	445 = 30.0 gpd (4.72 lph) / 33.0 gpd (5.20 lph) max pres.: 75 PSI (5.25 BAR)
	Series 150D Duplex Pump
	455 = 33.0 gpd (5.20 lph) / 33.0 gpd (5.20 lph) max pres.: 75 PSI (5.25 BAR)
	464 = 69.0 gpd (10.88 lph) / 32.0 gpd (5.05 lph) max pres.: 60 PSI (4.2 BAR)
	465 = 69.0 gpd (10.88 lph) / 24.0 gpd (3.79 lph) max pres.: 60 PSI (4.2 BAR)
	466 = 69.0 gpd (10.88 lph) / 69.0 gpd (10.88 lph) max pres.: 60 PSI (4.2 BAR)

Engineering Data

Pump Head Materials Available:	SAN PVC PP 316 SS
Diaphragm:	PTFE-faced CSPE-backed
Check Valves Materials Available:	
Seats/O-Rings:	PTFE CSPE Viton
Balls:	Ceramic PTFE 316 SS
Fittings Materials Available:	GFPPPL PVC PVDF
Bleed Valve:	Same as fitting and check valve selected, except 316SS
Injection Valve & Foot Valve Assy:	Same as fitting and check valve selected
Tubing:	Clear PVC White PE Black PE

Important: Material Code - GFPPPL=Glass-filled Polypropylene, PVC=Polyvinyl Chloride, PE=Polyethylene, PVDF=Polyvinylidene Fluoride, CSPE=Generic formulation of Hypalon, a registered trademark of E.I. DuPont Company. Viton is a registered trademark of E.I. DuPont Company. PVC wetted end recommended for sodium hypochlorite.

Engineering Data

Viscosity Max CPS:	300 CPS
Power Input:	115 VAC/60 HZ, 230 VAC/50 HZ 230 VAC/60 HZ
Temperature Limitations:	125°F / 51°C max.
Shipping Weight:	8 lbs. / 3.63kg.

Specifications subject to change without notice.

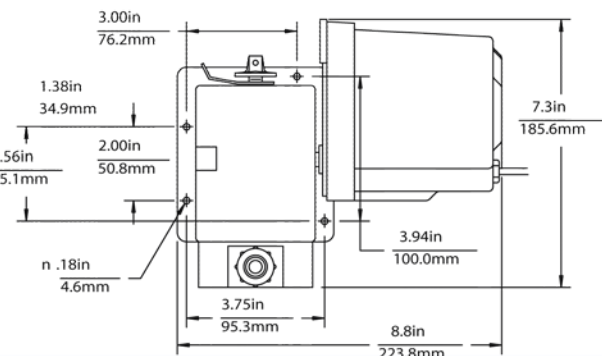
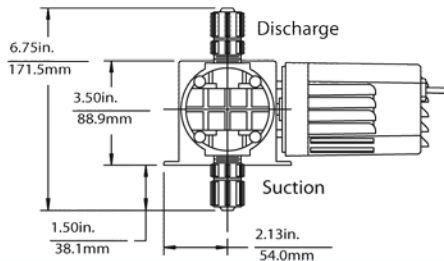
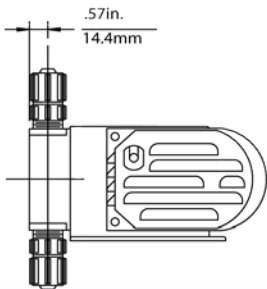
Custom Engineered Designs

Pre-Engineered Systems



Pulsafeeder's Pre-Engineered Systems are designed to provide complete chemical feed solutions for all electronic metering applications. From stand alone simple pH control applications to full-featured, redundant sodium hypochlorite disinfection metering, these rugged fabricated assemblies offer turn-key simplicity and industrial-grade durability. The UV-stabilized, high-grade HDPE frame offers maximum chemical compatibility and structural rigidity. Each system is factory assembled and hydrostatically tested prior to shipment.

Dimensions All dimensions expressed as inches (mm)



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