

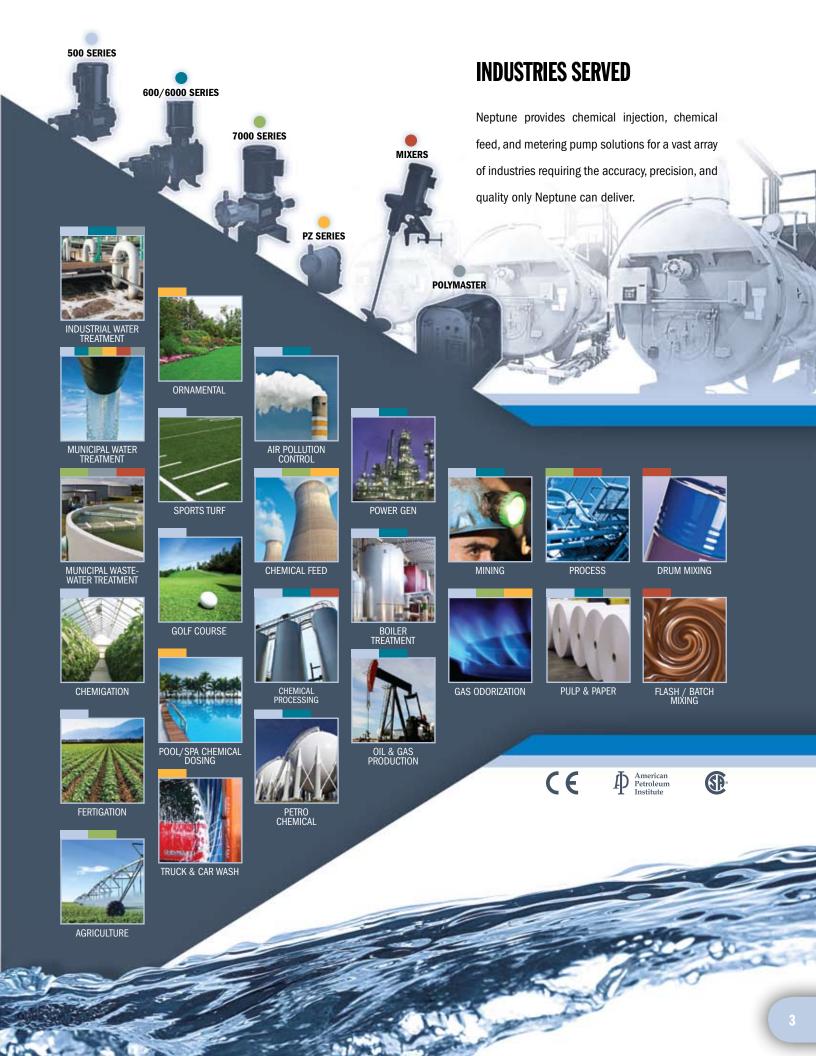


Neptune™ is a premier manufacturer of chemical metering pumps, chemical feed systems and chemical injection accessories. Neptune's hydraulic and mechanical diaphragm metering pumps are well known for injecting chemicals into boilers and cooling towers, and in water and waste water treatment applications. Major applications also include power generation, oil and gas exploration, petrochemical, and irrigation markets.

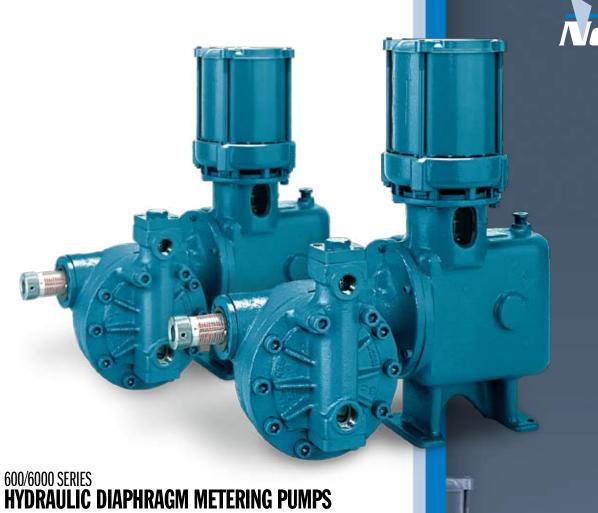
Other Neptune products include make-down systems to prepare and activate liquid or dry polymer for injection into water and waste water treatment processes, plus a complete line of portable mixers.

Neptune Chemical Pump Company, Inc. is located in North Wales, Pennsylvania and is a member of the Pump Solutions Group (PSG), part of the Dover Corporation's Fluid Solution platform.









FEATURES

- Innovative designs for precision and long term reliability
- Valves can be removed without disturbing piping²
- Variable oil by-pass stroke adjustment
- Capacity adjustable by micrometer dial while pump is running or stopped
- Bright color contrasted dial protected from corrosion by clear PVC coating
- Motor driven for precise injection
- Optional: Automatic stroke control adjustment and speed adjustment
- Optional: Double diaphragm leak detection available in most models

TECHNICAL DATA

- Liquid end materials: 316SS, PVC, PVDF, or Alloy 20
- Motor Data: D-flange (IEC) and (NEMA) C-frame mountings available
- Motor Options: Explosion proof, wash down duty, VFD

PERFORMANCE DATA

- Capacity/Flow @ 60Hz: 0.7 gph (2.7 lph) thru 240 gph (900 lph)
- Capacity/Flow @ 50Hz: 0.6 gph (2.2 lph) thru 197 gph (750 lph)
- Max. pressure: 4,000 psi (276 bar)







² Not available in PVC or Kynar head configurations.





60

KE LENGTH

80

90

100%

FEATURES

- · Leading Pulse metering pump design
- Operates on any single phase voltage from 94 VAC to 264 VAC
- Manual stroke length adjustment⁴
- Digital Setting options can set stroke speed, discharge volume, or by percentage
- Timer and batch functions built in5
- 1 to 300 spm (max) speed allows wide turndown range

TECHNICAL DATA

- PVC, acrylic, stainless steel and PVDF models available
- Manual, 4-20 mA or pulse input controlled
- Models for high viscosity available
- Automatic degassing valve for chemicals that "off" gas
- External interlock available (remote start, level switch, reset)

PERFORMANCE DATA

- Capacity/Flow: 0.01 gph (0.04 lph) thru 20.6 gph (78 lph)
- Pressures to 220 psi (15 bar)



⁴Only on PZi4, PZi8 & PZIG.

⁵Only on PZi8 & PZiG.









Used to inject chemicals pumped by metering pumps into the turbulent flow zone of high pressure water or steam lines.

FEATURES

- Operating pressures to 3,000 psi (207 bar)
- Spring loaded check valve
- Available in 316SS, PVC, PVDF, Alloy 20
- Sizes: 1/2" and 3/4" NPT

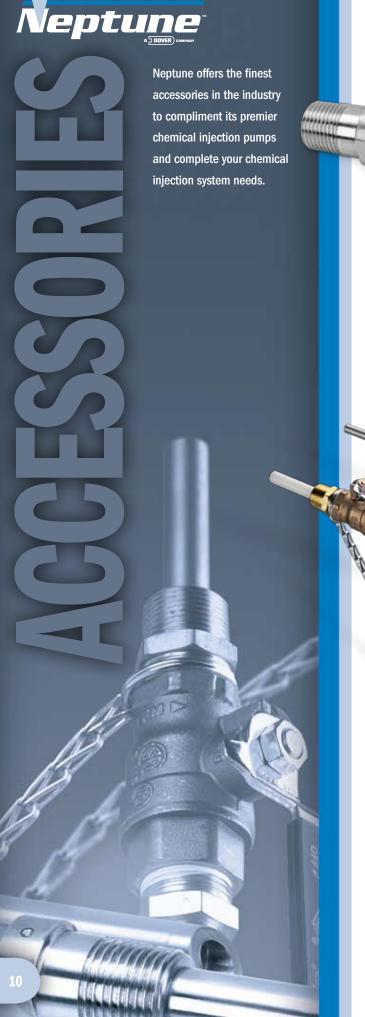


CORPORATION STOPS

Used for injecting chemicals pumped into tanks, mains, cooling towers and process systems providing more rapid uniform dispersion of injected chemical. Corporation Stop allows injection quill to be inserted or removed without having to drain or shut down the system.

FEATURES

- Operating pressures to 150 psi (10 bar)
- Available in a wide range of materials
- · Lever operated stop eliminates the need for a wrench
- Protection chain prevents withdrawal before Corporation Stop is closed
- Available in 316SS, PVC, PVDF, Alloy 20
- Sizes: 1/2" thru 1" NPT or AWWA





BACK PRESSURE VALVE AND PRESSURE RELIEF VALVES

Ensure the set pressure is maintained at the pump outlet port (discharge) to assure accurate metering and prevent siphoning. Back Pressure Valves are a required accessory when pumping to a low pressure injection point below the tank level or when pumping from a bulk tank with a high head pressure. Relief Valves protect the piping and system from overpressure to ensure safety and maximize Mean Time Between Repair (MTBR).

FEATURES

- Available in 316SS, PVC, PVDF, Alloy 20
- PTFE diaphragm
- · Field adjustable



CALIBRATION COLUMNS

Provide a fast, easy and economical means of checking the flow rate of your chemical metering pump.

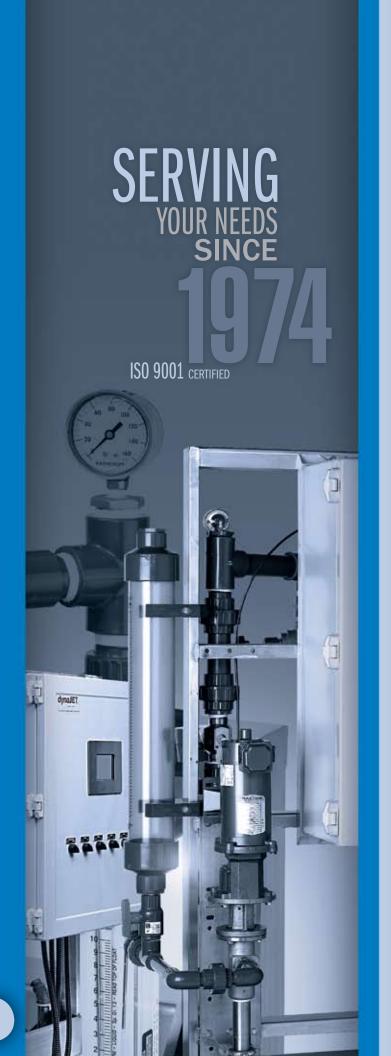
FEATURES

- Rugged PVC construction with slip on top caps for top filling and easy cleaning
- Shielded glass models available for acids and strong chemicals
- Calibration scales are protected from harsh chemical by Mylar lamination
- Capacity: 100 ml thru 4000 ml (dual scales)







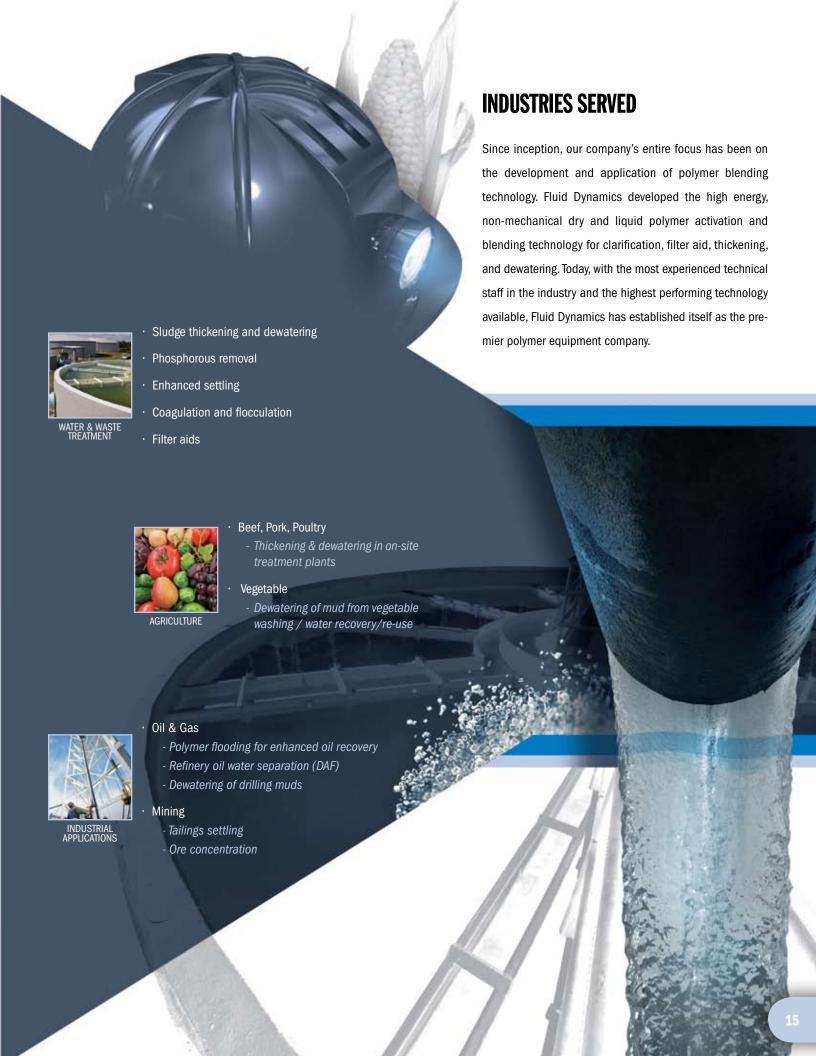




Incorporated in 1974, Fluid Dynamics™ was an active participant in the design and construction of wastewater treatment plants. A principal owner was also a representative of a popular mechanical polymer blending system but recognized the maintenance and performance problems of this type of system. It was with this experience and knowledge in plant design and polymer systems that Fluid Dynamics shifted its focus to polymer blending technology.

The dynaBLEND™ began in a way many products do, a few creative people with some ingenious ideas. The result was a revolutionary new non-mechanical polymer blending system. Following extensive research and collaboration with leading polymer scientists, Fluid Dynamics refined and patented the dynaBLEND™ polymer blending technology in 1985. Over 25 years and thousands of installations later, Fluid Dynamics stands as one of the premier polymer equipment companies in the world and is staffed with some of the leading polymer equipment engineers in the US. Our technical staff is specifically dedicated to the development and application of polymer equipment. Though attempts have been made to imitate the dynaBLEND™ system. Initial skepticism has turned into praise from all aspects of the industry, from engineers to end users.

Fluid Dynamics was purchased by and became a subsidy of Neptune Chemical Pump Co., Inc. in 2004. Fluid Dynamics went on to purchase SemblexPolymax™ liquid and dry polymer preparation systems from Severn Trent Services in 2005.







miniBLEND™ **LIQUID POLYMER BLENDING SYSTEM**

The miniBLEND™ is a perfect choice for chemical OEM's, mobile sludge dewatering and budget conscious customers. Complicated and costly controls have been eliminated while maintaining the features that make the dynaBLEND™ liquid feeder the most reliable feeder in the industry; the patented hydrodynamic mixing chamber and easy to access polymer check valve.

FEATURES

- · Lightweight and portable
- Manual or automatic pump speed control
- Choice of diaphragm, peristaltic or remote mounted neat polymer metering pump
- 304 stainless steel frame and mixing chamber
- · Reliable, non-mechanical mixing chamber
- Lowest operating cost, most reliable polymer feeders in the industry

TECHNICAL DATA

- Dimensions: 18" D (457mm) x 24" W (610mm) x 40" H (1016mm)
- Weight: 100 lbs. (45 kg.)
- Power requirement: 120 VAC, 5-Amp (0.6 kW)

PERFORMANCE DATA

- Operating Pressure: 100 psi maximum (6.9 bar)
- Dilution Water 6 to 12,000 gph (23 to 45,420 lph)
- Polymer .02 to 10 gph (.08 to 38 lph)



dynaBLEND™ **LIQUID POLYMER BLENDING SYSTEM**

The dynaBLEND™ liquid feeder is the most reliable feeder in the industry. The patented hydrodynamic mixing chamber and easy to access polymer check valve are just a sample of the industry leading features. Knowing the facts behind polymer blending is the first step in understanding the numerous benefits of the dynaBLEND™ technology. Over the years, the spectrum of polymers available has widened and today there are more difficult-to-blend polymers than ever before. This is especially important because some polymer blending systems work well on simple-to-blend polymers, but fail at effectively activating the difficult polymers.

FEATURES

- Rugged components for harsh/extreme environments
- Diaphragm, Progressive Cavity or Peristaltic metering pump options
- Lightweight portable packages available

PERFORMANCE DATA

- Dilution Water 12 to 21,000 gph (45 to 79,494 lph)
- Polymer .02 to 300 gph (.08 to 1136 lph)











dynaBlend™ **DRY POLYMER PREPARATION SYSTEM**

Compact, high performance dry polymer preparation systems. The dynaBLEND technology utilizes a negative pressure conveyance system to transport and disperse the dry polymer prior to wetting.

FEATURES

- Vacuum induced, non-mechanical polymer conveyance
- Wetting technology reduces plugging

TECHNICAL DATA

 Polymer transfer distance up to 20' (from the volumetric feeder to the mix tank)

PERFORMANCE DATA

- 180-gallon stacked tank system
- Up to 12 lb./hr. dry polymer







dynaJet" **DRY POWDER PREPARATION SYSTEM**

The dynaJET $^{\text{\tiny{M}}}$ technology is a high performance dry polymer preparation system that utilizes a blower-assisted conveyance system to transport and disperse the dry polymer prior to wetting.

FEATURES

- Blower induced pneumatic conveyance
- Non-mechanical wetting
- Provides reliable plug-free wetting of dry water and wastewater treatment chemicals

TECHNICAL DATA

- Stacked Tanks to 750 gallons
- Side + Side tanks to 30,000 gallons
- Polymer transfer distance beyond 20' (from the volumetric feeder to the mix tank)

PERFORMANCE DATA

• Systems rated from 12 to 1,000 pounds per hour of dry polymer











Your Distributor:

Dosificación de Fluidos, S.A. de C.V. Sur 126 #113 Col. América C.P. 11820 Del. Miguel Hidalgo, México D.F. Tels: 52721361, 52726384 Pag. Web: www.dosiflusa.com

295 DeKalb Pike • North Wales, PA 19454
Phone: 215.699.8700 • Toll Free: 1.888.3NEPTUNE • Fax: 215.699.0370
Email: pump@neptune1.com