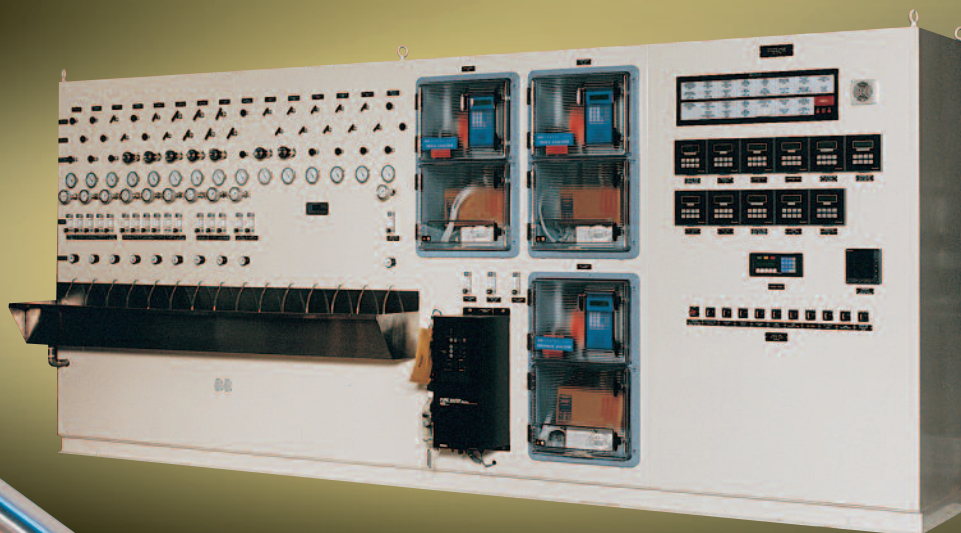
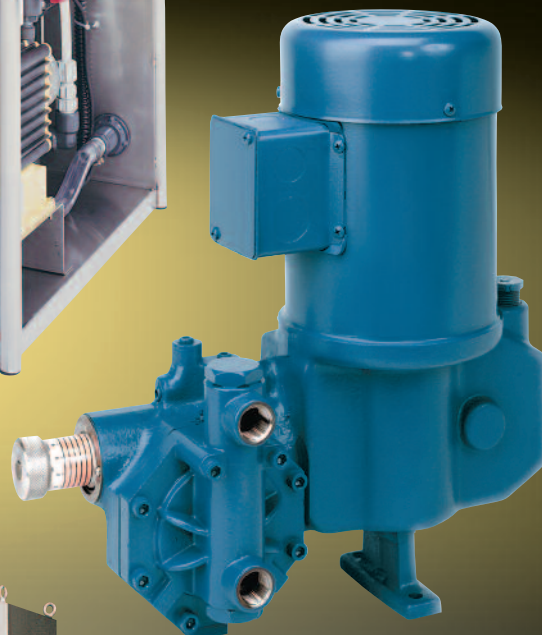
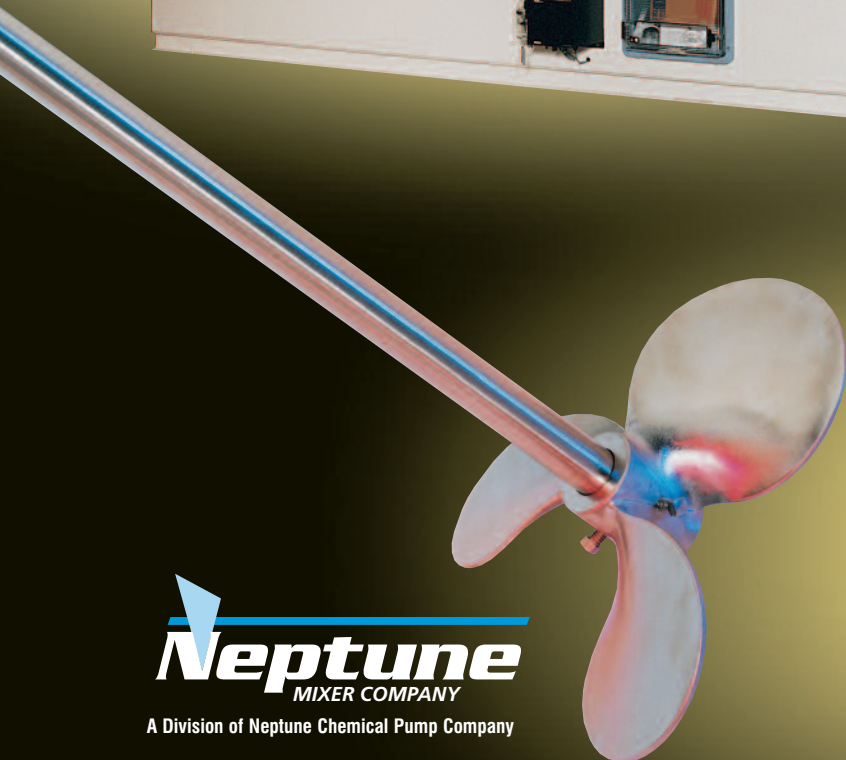


**Neptune**  
A **DOVER** COMPANY



 **WATERS  
EQUIPMENT co.**  
A Division of Neptune Chemical Pump Company



**Neptune**  
MIXER COMPANY  
A Division of Neptune Chemical Pump Company

## NEPTUNE HYDRAULICALLY ACTUATED "DIA-PUMPS"

**Variable Oil By-pass™** stroke adjustment allows better valve performance than variable linkage designs. *The valve checks have extra time to seat even in heavy liquids since they are idle during the by-pass portion of the discharge stroke.*

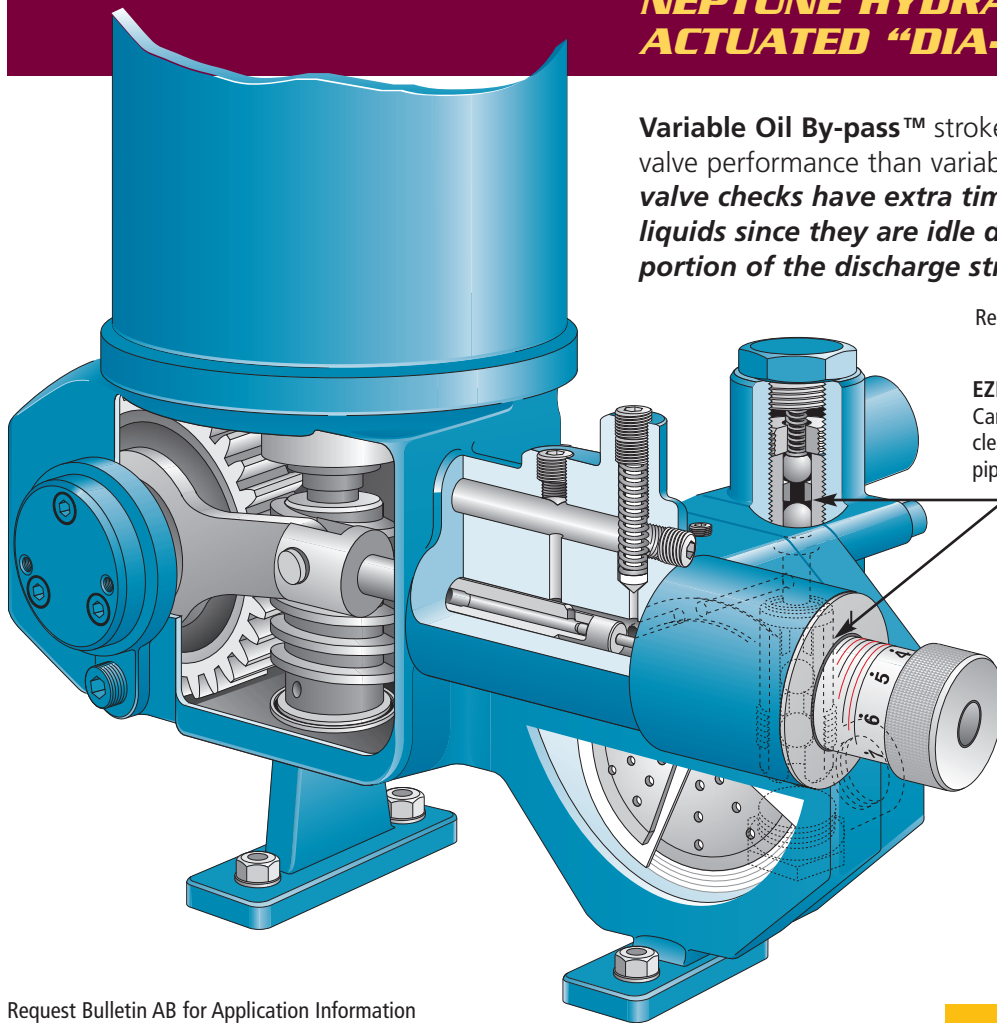
Request Bulletin DP-1100

**EZE-CLEAN™ Valves**—  
Cartridges can be removed for  
cleaning without disturbing the  
piping to the pump.

All Neptune "dia-Pumps"  
are adjustable from 10%  
through 100% of capacity  
by micrometer dial.

Neptune "dia-Pumps" are  
available in the following  
materials of construction:

- Cast Iron with 316SS Trim
- 316SS      • PVC
- Alloy 20      • Kynar



Request Bulletin AB for Application Information

### SERIES 500A

316SS  
shown



Standard "dia-Pump"  
Simplex Only

- Simplex capacities from 1 gph (3.7 lph) to 18 gph (68 lph)
- Pressures to 1100 psi (77 kg/cm<sup>2</sup>)

Request Bulletin DP-1100

### SERIES 500E

316SS  
shown



Economy Liquid Head  
Simplex Only

- Simplex capacities from 1 gph (3.7 lph) to 18 gph (68 lph)
- Pressures to 1100 psi (77 kg/cm<sup>2</sup>)

Request Bulletin DP-500E

### SERIES 500S/ 500D

PVC  
shown



The Original "dia-Pump"  
Available Simplex or Duplex

- Simplex capacities from 0.2 gph (0.75 lph) to 80 gph (302 lph)
- Pressures to 3000 psi (210 kg/cm<sup>2</sup>)

Request Bulletin DP-1100



## SERIES 500V

316SS shown



Special Application Pump, Available Simplex or Duplex, Light Slurries and Viscous Fluids to 5,000 cps

- Simplex capacities from 2 gph (7.5 lph) to 30 gph (114 lph)
- Pressures to 450 psi (32 kg/cm<sup>2</sup>)

Request Bulletin VP



## SERIES 500T

316SS shown



Special Application Pump, Available Simplex or Duplex, Slurries to 10% and Viscous Fluids to 20,000 cps

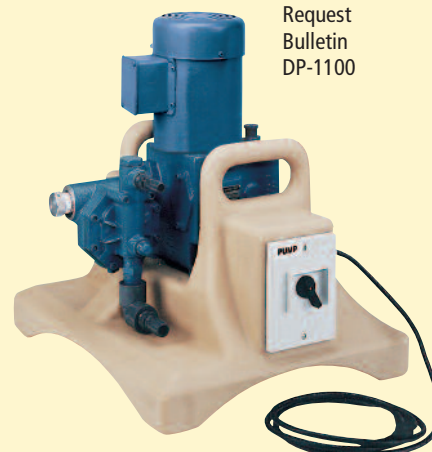
- Simplex capacities from 2 gph (7.5 lph) to 80 gph (302 lph)
- Pressures to 300 psi (21 kg/cm<sup>2</sup>)

Request Bulletin TP

## PORTABLE "EZE-GRAB" PLATFORM

Shown below with Series 500V Pump plus optional Motor Starter, Cord and Plug

Request Bulletin DP-1100



## DOUBLE DIAPHRAGM LEAK DETECTION OPTION WITH SENSOR/TRANSMITTER

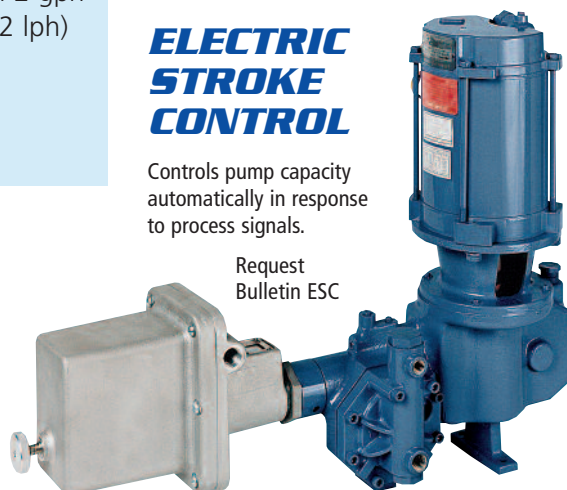
Request Bulletin DP-1100



## ELECTRIC STROKE CONTROL

Controls pump capacity automatically in response to process signals.

Request Bulletin ESC



## SERIES 600

316SS shown



High Volume, High Pressure, Simplex Only

- Simplex capacities to 240 gph (907 lph)
- Pressures to 4000 psi (276 kg/cm<sup>2</sup>)

Request Bulletin DP-2000

## SERIES 7000

PVC shown

Mechanically Actuated Diaphragm Metering Pumps



- Simplex capacities to 300 gph (1135 lph)
- Pressures to 150 psi (10 kg/cm<sup>2</sup>)

Request Bulletin DP-7000

## PACKAGED CHEMICAL FEED SYSTEMS

Neptune manufactures standard chemical feed systems to 500 gallons with bottom, top or side-mounted pumps.

Request Bulletin FDP/CFS



## GLYCOL FEEDERS

Automatically adds glycol solution to make up for leakage in closed loop water systems.

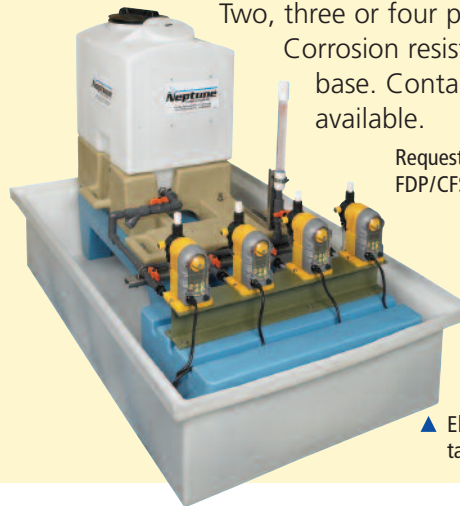
Request Bulletin GLY



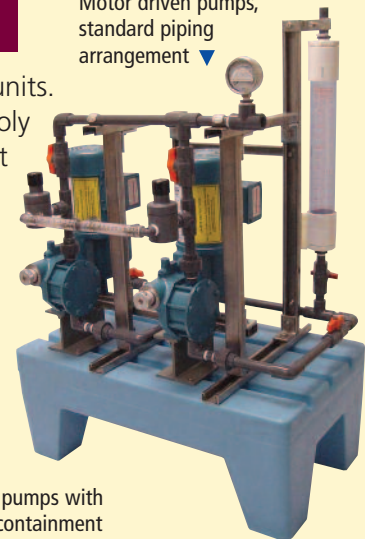
## NIMBLE SKID FLEXIBLE PUMP PACKAGES

Two, three or four pump units. Corrosion resistant poly base. Containment available.

Request Bulletin FDP/CFS



Motor driven pumps, standard piping arrangement ▼



▲ Electronic pumps with tank and containment

## CONTAINMENT SYSTEMS

Containment systems capture leaks or spills.

Request Bulletin FDP/CFS

◀ OPEN CONTAINMENT SYSTEM



## PORTABLE MINI-TANK FEEDERS

With containment



Without containment





## SERIES PZ PUMPS

Electronic diaphragm metering pumps. Operates on any single phase voltage from 94 VAC to 264 VAC. Manual, 4-20 mA or water meter pulse controlled.

Variety of liquid end materials.

Request Bulletin PZ



◀ **PZ Pump with PVC Liquid Head**

**PZ Pump with PVDF Liquid Head** ▶



◀ **PZiG Pump with PVC Liquid Head**

## POLYMASTER™

Liquid polymer blend and feed system dilutes, mixes and thoroughly activates emulsion, dispersion and solution polymers.

Request Bulletin PM

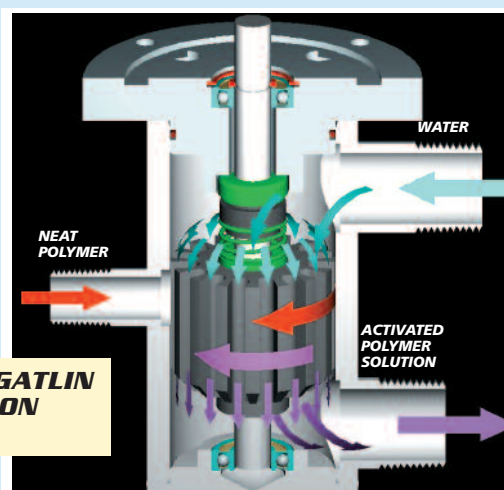
Hazardous area models available.

Request Bulletin PM-EP



Degree of polymer activation is not affected by fluctuating water pressures or dilution water ratio changes.

**PATENTED GATLIN DISTRIBUTION HEAD**



## BY-PASS FEEDERS

Vertical, to 12 gallons, to 300 psi, 200°F

Request Bulletin BF

**BY-PASS FEEDER WITH CARTRIDGE FILTER**

Type DBFC

**FILTER FEEDER WITH FILTER BAG IN BASKET**

Type FTF



Type VTF



Type DBF



1 to 50 micron rating



## BROMINE FEEDERS

15 to 300 lb. capacity, to 230 lb./day feed rate, to 150 psi, 150°F

Request Bulletin BRD



## CUSTOM CHEMICAL FEED SYSTEMS

Designed to meet your requirements using your specifications or Neptune's application expertise.

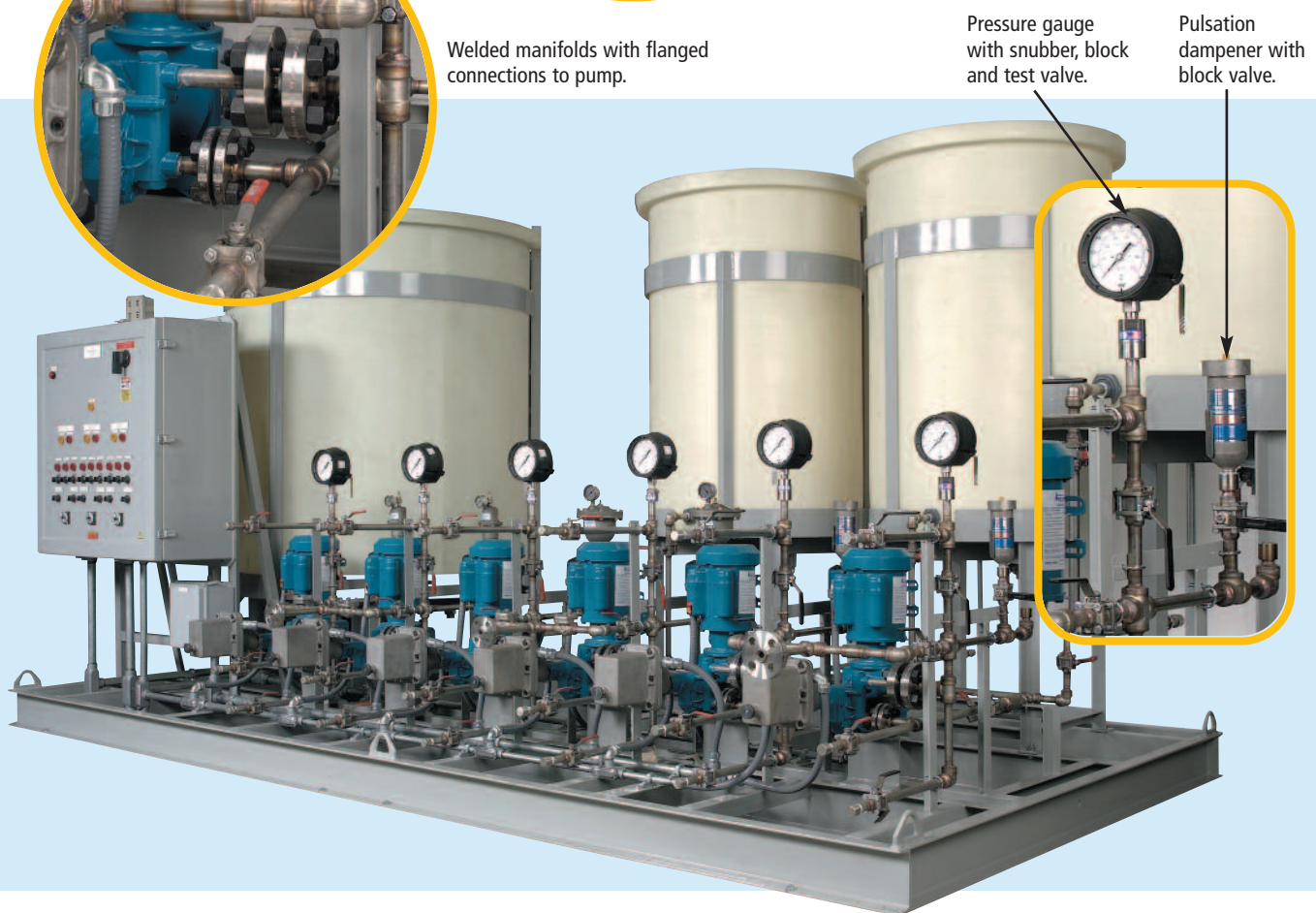
No one is better qualified to integrate components into a system than the designer and manufacturer of those components. The system and components are backed by the same manufacturer's warranty, hence you receive the confidence of single-source responsibility when you purchase from Neptune.



Welded manifolds with tubing connections to pump.



Welded manifolds with flanged connections to pump.



Pressure gauge with snubber, block and test valve.

Pulsation dampener with block valve.



# STEAM & WATER ANALYSIS SYSTEMS

Custom designed to your application. Standard designs include primary and/or secondary cooling. Front mounted grab sample sink includes work surface and spill containing drip lip. Nema 12 electrical enclosure with rear opening door is standard. Select from our list of recognized standard components and instruments, or indicate your choice.



## WATERS EQUIPMENT co.

A Division of Neptune Chemical Pump Company

P.O. Box 576, Lansdale, PA 19446

215-699-8700 • FAX: 215-699-8795

**Inlet isolation, blowdown and Waters HiDPII high-pressure reducing valves are located on the front of the panel.**

**Gauges and indicators provide information for control on the front of the panel.**

**BACK VIEW: Tubing match plate used for panels shipped in sections and reconnected at the job site.**

**Chiller integration into panel layout saves on-site installation cost and provides better cooling efficiency. Local disconnect provides safety and convenience.**

**BACK VIEW**

**Coolant sight flow indicator aids in distribution of coolant supply.**

**Cooler installation includes throttling, isolation and relief valves.**

**Non-asbestos insulation for personnel protection.**

**Stainless steel headers for cooling water, drain and relief.**

**Stainless steel sample cooler shell is easily removed for cleaning.**

**FTA bath automatic water level controls.**

**Insulated stainless steel bath resists corrosion.**

**FTA valves provide precise, independent temperature control of individual sample lines.**

**SEE PAGE 10 FOR FTA SYSTEM**

**BACK VIEW**

## SAMPLE CONDITIONING

### SAMPLE COOLERS

High efficiency, counter-flow sample coolers. All stainless steel construction. Shell is easily removed for cleaning in place. Pressure/temperature rating, 5000 psi at 1000°F.

Request Bulletin W9150



### REFILLABLE RESIN COLUMNS

Available in many sizes as direct replacements to more expensive disposables. Valved quick disconnects available.

Request Bulletin W7901



### HIGH PRESSURE REDUCERS

Adjustable pressure reducer is interchangeable with other brands. All 316 stainless steel wetted parts. Crank-assisted handwheel and blow-by step in reduction rod provides easier clean out and adjustment. Pressure/temperature rating, 5000 psi at 300°F.

Request Bulletin W6501



### HIGH TEMPERATURE SAMPLE SHUT-OFF



### HIGH TEMP SHUT-OFF VALVES

Shuts off sample flow when temperature gets too hot. Rated for 3000 psi. No reset required. All stainless construction.

Request Bulletin W270

### SPARGER ASSEMBLY

Used to prepare a sample for taking a degassed cation conductivity measurement. Options include conductivity analyzer and nitrogen generator.

Request Application Bulletin W7950



A Division of Neptune Chemical Pump Company  
P.O. Box 576, Lansdale, PA 19446  
215-699-8700 • FAX: 215-699-8795



## CONDITIONING ASSEMBLIES

### SAMPLE CONDITIONING MODULES

Single point sample panels can be easily customized to condition a wide variety of samples. Available with conductivity, pH or similar analyzers. Pressure/temperature rating to 4000 psi at 1000°F.

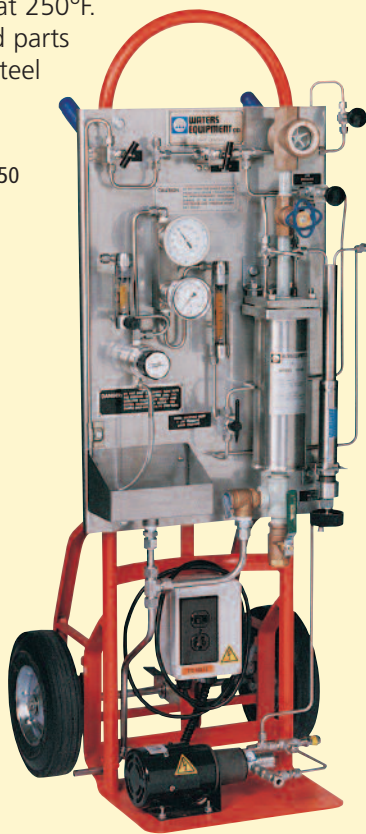
Request Bulletin W3100



### PORTABLE SAMPLERS

Easily moved throughout the plant. Can sample any source from 5000 psi at 1000°F to 2 psia at 250°F. All wetted parts stainless steel or acrylic.

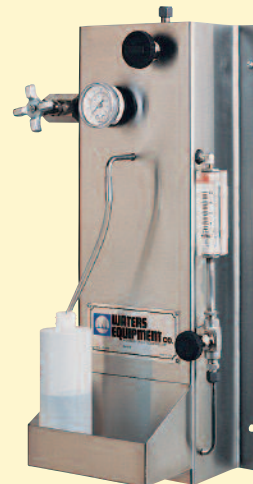
Request Bulletin W3150



### GRAB SAMPLE STATIONS

Includes all components necessary for obtaining a grab sample from smaller boilers. Completely assembled. Saves time on installation. Pressure/temperature rating, 1000 psi at 450°F.

Request Bulletin W3000



## MULTI-STREAM SEQUENCERS

Used to share continuous on-line analyzers among multiple sample streams in order to save money and minimize space. Standard model can accommodate up to eight streams. Custom model is used for multiple analyzers and includes color touch-screen operator station.

Request Bulletin W5000



**STANDARD SEQUENCER**



**CUSTOM SEQUENCER**



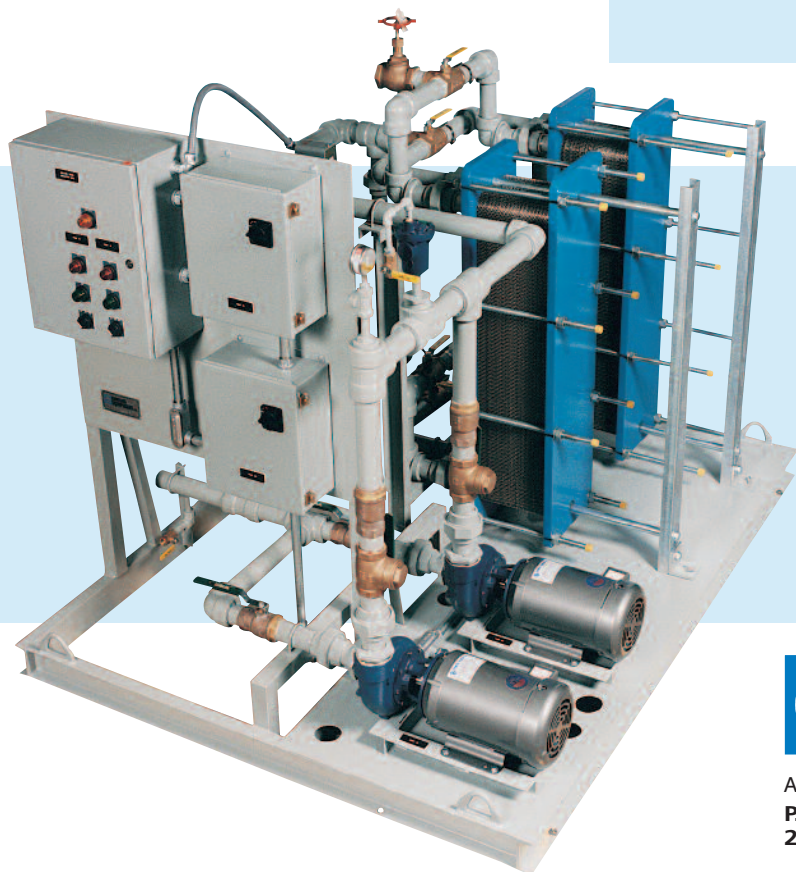
Provides independent secondary temperature control of individual sample lines in a compact, economical package. Local temperature adjustment and indication provided for each sample line. All wetted parts stainless steel. Insulated stainless steel bath. Chiller optional.

Request Bulletin WFTA

## **CONDENSER LEAKAGE MONITORING SYSTEMS**

Monitors for condenser tube-sheet leaks when unit is down. Available with many forms of analysis. Positive displacement gear pump maintains prime and provides linear flow.

Request Bulletin WCLMS



## **COOLING WATER ISOLATION SKIDS**

Allows utilization of high-solids cooling water supplies as primary cooling water source. Ideal for use with surface water or mineral laden well water supplies. Available in single or dual process loop configurations.

Request Bulletin WCWIS



**WATERS  
EQUIPMENT co.**

A Division of Neptune Chemical Pump Company  
P.O. Box 576, Lansdale, PA 19446  
215-699-8700 • FAX: 215-699-8795





### **SERIES B**

Direct Drive Air  
or Electric Mixers,  
1/20 to 1/2 HP



### **SERIES BC**

Direct Drive  
1/2 to 3/4 HP Electric  
1/2 to 2 HP Air

# **Neptune**

## **MIXER COMPANY**

A Division of Neptune Chemical Pump Company

P.O. Box 247 • Lansdale, PA 19446-0247

Tel: 215-699-8700 • Fax: 215-699-0370

Toll-Free Tel: 1-888-3NEPTUNE (1-888-363-7886)

Toll-Free Fax: 1-800-255-4017

Request Portable  
Mixer Catalog

### **DRUM MIXER**

Series F Clamp-On (shown),  
Series E Screws into  
2" Bung (not shown),  
1/4 to 1 HP,  
Electric or Air



## **BULK CONTAINER MIXERS**

Electric or Air



Neptune mixers  
mount to any  
brand/size  
IBCs.

### **SERIES BF**

Direct Drive  
Flange Mount  
1 to 3 HP Air



## **HEAVY DUTY PORTABLE MIXERS**

1/3 HP to 5 HP, Electric or Air  
Gear Drive (350 RPM) and Direct Drive (1750 RPM)

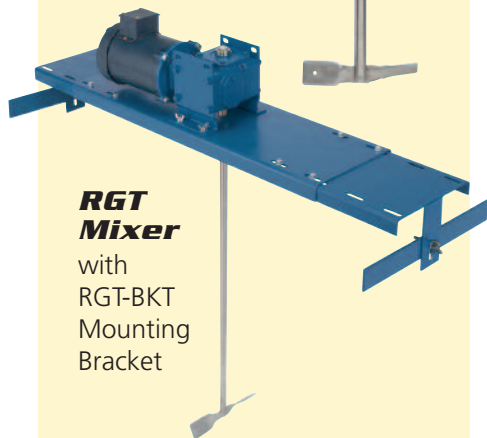
### **HGL Mixer**

Mounted to  
Cap with  
PN #107739  
Bulkhead Fitting



### **RGT Mixer**

with  
RGT-BKT  
Mounting  
Bracket



### **SERIES JG**

Clamp  
Mount



### **SERIES JGR**

Angle Riser  
Mount



### **SERIES JGF**

Flange  
Mount



# QUALITY ACCESSORIES BY NEPTUNE CHEMICAL PUMP COMPANY

## BACK PRESSURE VALVES

PVC, 316SS, Kynar  
and Alloy 20  
standard.  
Available ½"–1½"

Request Bulletin BP

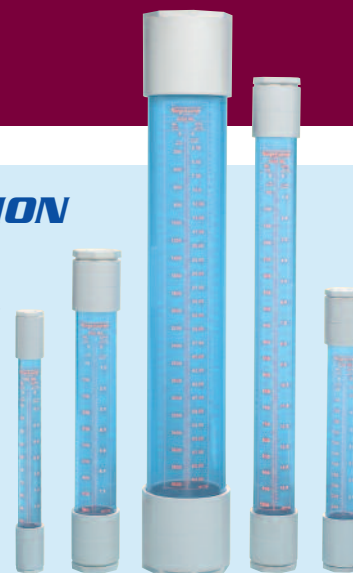


▲ 316SS  
◀ PVC

## CALIBRATION COLUMNS

Standard sizes 100,  
250, 500, 1,000  
and 4,000 ml.

Request Bulletin CC



316SS ▲  
PVC ▶

## PULSATION DAMPENERS

PVC, polypropylene, 316SS  
and Alloy 20  
bodies with  
Viton or  
EPDM  
bladders

Request  
Bulletin PD



## SAMPLE COOLERS

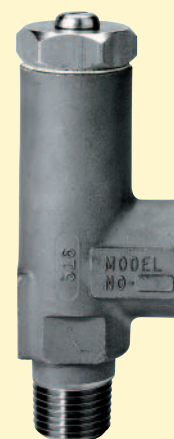
316SS and Inconel  
Request Bulletin SC



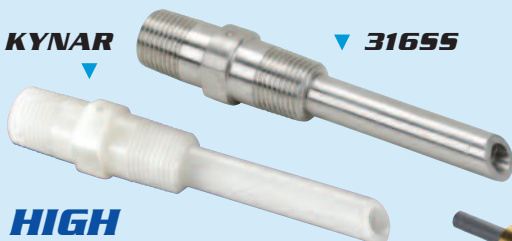
## RELIEF VALVES

PVC, 316SS,  
Kynar and  
Alloy 20 standard.  
Available ½"–1½"

Request Bulletin RV



KYNAR



## HIGH PRESSURE INJECTION QUILLS

Used to inject chemicals into the  
turbulent flow zone of high pressure  
water or steam lines. PVC, Kynar, 316SS  
and Alloy 20 available. Request Bulletin CS

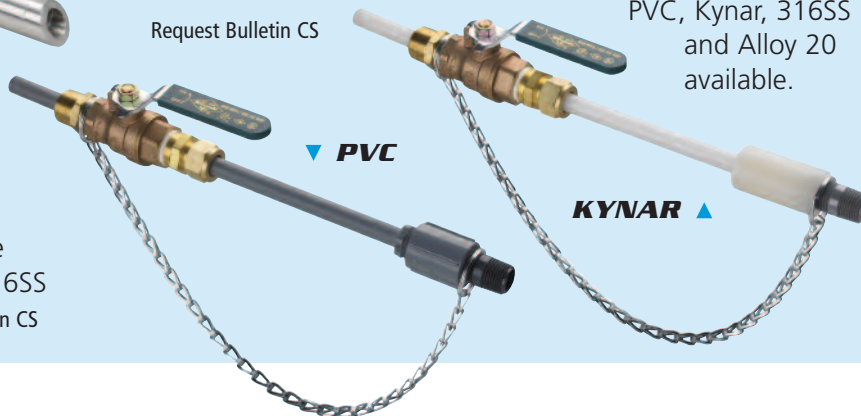
▼ 316SS

## CORPORATION STOPS WITH QUILLS

Used to add chemical injection points to low pressure tanks,  
mains, cooling towers and process systems without draining.

Request Bulletin CS

PVC, Kynar, 316SS  
and Alloy 20  
available.



▼ PVC

KYNAR ▲

**Neptune**  
A DOVER COMPANY

P.O. Box 247 • Lansdale, PA 19446-0247  
Tel: 215-699-8700 • Fax: 215-699-0370  
Toll-Free Tel: 1-888-3NEPTUNE (1-888-363-7886)  
Toll-Free Fax: 1-800-255-4017  
Web Site: <http://www.neptune1.com>  
E-mail: [pump@neptune1.com](mailto:pump@neptune1.com)

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**PSG**  
PUMP SOLUTIONS GROUP  
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