



BURT | PROCESS
EQUIPMENT.

Partners In Global Water Quality

CHEMPLUS

Chemical Metering Systems



Reliable, Compact Systems with Complete Flexibility in Customization

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ChemPlus Chemical Metering Systems

The Burt Process ChemPlus has revolutionized the concept of chemical dosing systems by providing a fully engineered, pre-packaged, corrosion resistant system that provides complete flexibility in customization. ChemPlus gives engineers and systems designers the ultimate in flexibility with the latest advances and widest range of proven technologies. Burt Process draws on over 50 years of experience in specifying and manufacturing chemical processing equipment to provide a feed system design that meets the most rigorous chemical metering demands.



ChemPLUS pre-engineered systems offer a wide range of component options, pump selection and piping arrangements needed to customize chemical metering system solutions.

- Wide range of pump technologies include:
 - Solenoid or Motor Driven Diaphragm Pumps
 - Gear, Peristaltic, Progressing Cavity & more
- Rugged Acid, Caustic & Solvent Resistant Construction
- Complete System Fabrication, Assembly & Test
- Skid & Containment Basin constructed of 1/2" HDPE, Wall or Floor mountable
- Simplex, Duplex, Triplex or Custom Designs
- Piping materials in PP, PVC, CPVC, PVDF, or SS
- Standard & Custom Control Options Available



ChemPlus Simplex System

Fully Customizable Pre-Packaged Skids

Applications

Municipal Water: Disinfection, Sodium Hypochlorite, pH Adjustment, Fluoride, Coagulation & Flocculation

Municipal Wastewater: Fume Scrubbers, pH Adjustment, Odor Control, Residual Disinfectant Management

Food & Beverage: Clean-In-Place, Clean-off-Line, Sterilizer Water Treatment

Institutional: Cooling Tower Waste Treatment, Boiler Water Treatment, Closed Loop Systems

Other Applications: in Swimming Pools & Water Parks, Mining & Agriculture, Utilities & Dairy Industry, Pulp & Paper, Oil & Gas



ChemPlus Duplex System



ChemPlus Triplex System

Standard System Configurations

Simplex w/selectable components

Duplex arrangements include:

- Redundant suction & discharge
- Redundant discharge only
- Lead/Backup, single pipe system

Triplex arrangements include:

- Redundant suction & discharge
- Redundant discharge only

Documented Factory Testing

- ✓ 120-Minute Hydrostatic Pressure Test
- ✓ Pressure Relief Valve Preset & Tested
- ✓ Back Pressure Valve Preset & Tested
- ✓ Pulsation Dampener Charged & Tested
- ✓ Completed Pre-Shipment Check List
- ✓ Documented Inspection Report



BURT PROCESS EQUIPMENT

P.O. Box 185100, Hamden, CT 06518
Toll Free: (800) 426-3856 Main: (203) 287-1985

Hydrostatic Procedure/Test & Device Setting Report

Customer/Job	1129914	
BPE Order	1129914	
Equipment	1 Skid, s/n: 1129914A	
Test Date	7-10-13	

Test Procedure:

- After fabrication, assembly and cleaning, piping and components shall be pressurized to the test pressure shown below.
- The following method(s) shall be used:
 - Fill equipment with ambient temperature water as the hydraulic medium, vent all air, and pressurize per the chart below. Maintain this test for a minimum of **120** minutes while examining all joints for leaks. Verify and record the pressure at beginning & end of the test.
- This test shall be considered satisfactory when no leaks or drop in pressure is observed for a minimum of **120** minutes.

General Plumbing	Hydro Test Pressure	Actual Test Pressure
Suction & Discharge Piping-PVC	100 psi	_____ psi

Pressure Relief Valve	Pressure Relief Setting	Actual Relief Pressure
1/2" PVC, Adjustable	75 psi	_____ psi

Back Pressure Valve	Pressure Setting	Actual Back Pressure
1/2" PVC, Adjustable	25-30 psi	_____ psi

This is to certify that the above system pipe, fittings, hose, & components have passed hydrostatic testing per the procedure indicated and pressures recorded above.

Inspected By: _____



Pressure Gauge w/Guard
2.5" or 4.5" from 0-160 PSI

Pipe Labeling
Provided with chemical name & flow direction

Piping
Schedule 80 PVC, CPVC or
Fusion-Welded PVDF

Selectable Pump Options
Pump options include Solenoid, Mechanical
or Hydraulic Diaphragm, Gear, Peristaltic
or Progressing Cavity



ChemPlus Nameplate
(Customized for OEMs)

Back Pressure [anti-syphon] Valve
Two port flow through design & field adjustable from 15-150 psi

Pulsation Dampener
Removes 99% pulsation, sizes include 4,
10, 36 & 85 cubic inch

Pressure Relief Valve
Two or three port flow through design available & field adjustable
to 15-150 psi

Calibration Column
Sized for either 30 or 60 second draw down
& available in Clear PVC, PP or Glass

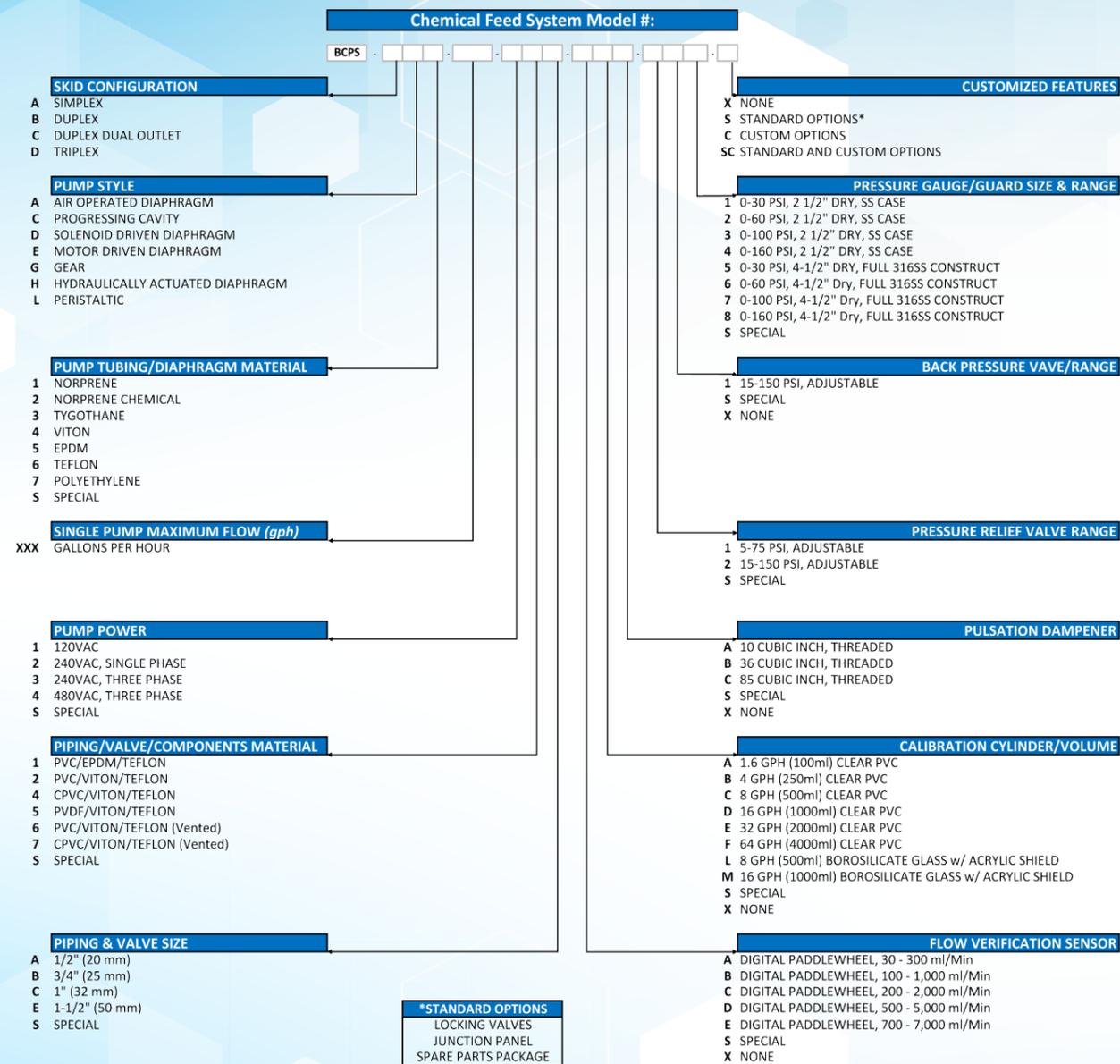
Manual Ball Valves
True union design available vented or with lockout handles

Visual Flow Indication
Excellent diagnostic tool, Rhythmic rising & falling
of ball indicates positive flow

Single Piece 1/2" HDPE Corrosion Resistant Skid
Wall or Floor mountable with containment basin & drain with valve



Choose from a variety of standard ChemPlus Systems, or the Burt Process team of highly qualified design engineers can develop a system to meet your specific application needs. All systems are assembled at our facility on fabricated skids with electrical connections and controls as required.



Control Panels

Burt Process Equipment provides complete industrial control panel design and UL 508A fabrication services as part of our product offering. Burt Process control panels provide the highest quality in workmanship coupled with optimum control in standard and custom enclosures. Interface modules available for Modbus, GENibus, BACnet, Profibus, PROFINET and GSM/GPRS (wireless communication). All panels are UL 508A listed.

Control Panel Options

- UL Type 4X FRP or stainless steel enclosures for corrosive environments
- Microprocessor based controllers
- Explosion proof rated panels for hazardous environments
- PLC (Programmable Logic Controller) and HMI (Human Machine Interface)
- PC Interface and data acquisition systems



System Options

- Flow or Pressure Verification Sensors
- Conduit Box for Power & Control Signals
- Splash Guard Covers
- ChemPlus Nameplate may be customized
- HDPE or FRP Outdoor Shelters
- Elevated Support Legs or Stand
- Custom Controls & Instrumentation



Send your specifications,
we'll provide the solution.

Corporate
Headquarters
100 Overlook Drive
Hamden, CT 06514
Tel. (203) 287-1985

Our Services

- System Engineering
- System Installation and Upgrades
- Programming Updates
- PLC and PC Controls Integration
- Start-up, Testing, Training
- Documentation
- Maintenance & Technical Support
- Preventive Maintenance Contracts and Agreements
- Instrumentation Calibration
- Pump Equipment Repair
- On-Site Equipment Evaluations

Our Products

- pH Neutralization Systems
- High Purity Water Generation Equipment
- Rainwater Recovery Systems
- Chemical Feed Systems
- Pump Transfer Stations
- Wet Process Benches
- Metal Finishing Components and Systems
- Pumps
- Tanks and Mixers
- Process Instrumentation and Controls
- Plastic Valves, Fittings and Tubing



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