

SEEPEX.
ALL THINGS FLOW

TIGHTER PROCESS CONTROLS

ALPHA CHEMICAL METERING SYSTEMS

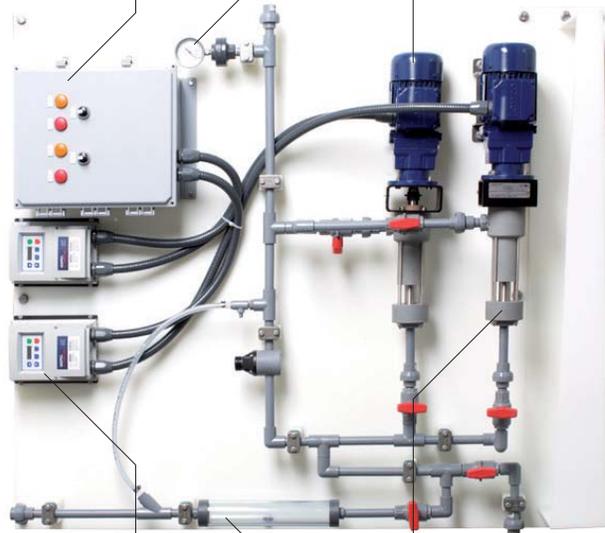


FLAT LINE YOUR SCADA GRAPH

ALPHA SYSTEMS STAND FOR:

- Accuracy
- Less chemical consumption
- Pulsation minimized
- High quality components
- Adaptiveness

ALPHA systems – complete with controls and frameworks – are for simple plug-and-play installation. Using progressive cavity pumps, the amount of ancillary equipment is reduced, which reduces complexity, failure potential and cost. SEPEX progressive cavity pumps have minimal pulsation, won't vapor lock and are superior in quality, performance, service life and operating costs, all of which is backed by a standard 3 year warranty. All wetted materials within each system are corrosion resistant and reliable. Common materials offered are Titanium, FPM (Viton), PTFE & CPVC. Chemical compatibility testing is also available with elastomer samples.



VFD

Pre-programmed chips for easy duplication, with terminal strip for direct connection of I/O's.

CALIBRATION COLUMN

Includes a fill valve that is charged by the pumps, which makes the chemical source tank location irrelevant.

PUMP(S)

NSF/ANSI 61 certified and available in a variety of sizes ranging on from one inch to four inches. The rotors and stators are available in a variety of materials. Sids are available in a simplex (1 pump) or duplex (2 pumps) variations.



Certified to NSF/ANSI 61

SEPEX is the only provider of NSF/ANSI 61 certified progressive cavity pumps.

CONTROL SYSTEM

UL 508 certified controls installed in NEMA 4X housing with local/off/remote capability. remote start/stop, remote flow command, pump control capability for each pump. Standard voltage is 120 VAC or 230 VAC, 1 ph.

PRESSURE GAUGE

High quality, liquid filled, with chemically inert liquid filled gauge isolator.

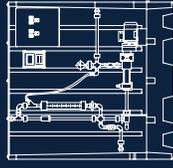
DRIVE

Offers a minimum of 60:1 speed turndown that permits a most efficient flow turndown in most chemical feed applications.

SYSTEM OPTIONS

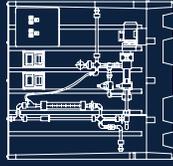
SIMPLEX FLOOR MOUNTED

L48" x W100" x H60"



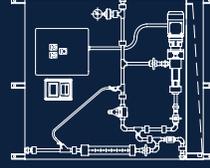
DUPLEX FLOOR MOUNTED

L48" x W115" x H60"



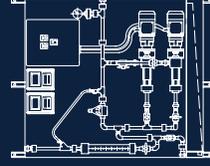
SIMPLEX WALL MOUNTED

L37" x W30" x H60"



DUPLEX WALL MOUNTED

L37" x W30" x H60"



Each system can be further customized based on pump type.
*Maximum values shown.

	CAPACITY (GPM)
MD 0000-2-4	2.88
MD 0005-2-4	7.69
MD 0032-2-4	11.38
MD 0062-2-4	22.86
MD 0102-2-2	71.1

APPLICATIONS

SEEPEx's ALPHA chemical metering systems are used in a variety of water treatment applications including, but not limited to: disinfection (chlorination/chloramines), pH control, coagulation and flocculation.

No matter the water source, the treatment processes remain the same. Coagulation, flocculation or precipitation chemicals can be safely metered using ALPHA systems. Disinfectant chemicals, such as sodium hypochlorite, can be reliably injected into the discharge of a vertical turbine pump to increase the chlorine contact time for a more positive disinfection. ALPHA's intelligent drive can follow the signal from a flow meter on the discharge of the centrifugal pump and maintain appropriate dosage ratios based on chemical sensors. The inherent minimal pulsation of progressive cavity pumps eliminates over-dosing to maintain a set point for sterility and eliminates purchasing expensive chlorine concentration instruments. pH control using various acids and bases can also be performed with ALPHA. No matter your water source, SEEPEx will find the best combination of equipment and materials for your custom application.

FEATURES

- Minimal pulsation
- Accurate and repeatable flow
- No vapor lock
- No check valves to clean or replace
- NSF /ANSI 61 certified pumps
- Reduced chemical consumption
- Reduced byproducts
- Easy calibration
- Self-priming

KEY FACTS

- Conveying capacity:
0.0–70 USGPH (0–265 l/h)
- Pressure:
up to 175 psi (12 bar)
For higher pressures please consult factory
- Suction lift:
up to 35 ft. (10.5 meters)
- 1 phase power supply:
115VAC, 60Hz