

## VACUUM CONVEYING SYSTEM

Coast's Equipment's vacuum conveying system will provide years of reliable service in a variety of applications. The system can be designed for a single machine, beside the press loading, to multi-station central loading, transferring material from the railcar and silo through the plant to the molding machine or extruder. The system's components include a vacuum blower unit, a stainless steel vacuum chamber(s) and stainless steel filter assembly. The system also incorporates aluminum or stainless steel tubing and fittings.

At the heart of our system is the station sequencing panel. The panel is PLC based using the power of the flexible, ultra-compact TWIDO<sup>TM</sup> processor. It enables you to easily choose your fill method at the touch of a button. We provide complete installation services, which can include start up and training of your system. Call us at 302-337-3778 or email us at [sales@coastequipment.com](mailto:sales@coastequipment.com) for assistance in intelligently designing your vacuum conveying system, at a sensible price.



### Vacuum Blowers

Features:

- Rotary positive displacement blower, Roots
- 5 – 25 HP
- TEFC enclosure
- 230/460 volt, 3 phase, 60 Hz motor
- V-belt drive, drive guard, adj. motor base, expansion joints and vacuum relief valve
- Unit is factory assembled on a base frame
- Vacuum breaker valve with air cylinder and NEMA 4 solenoid valve
- Inline filter with pressure differential gauge
- Discharge silencer
- Vacuum switch
- Vacuum gauge
- Sound enclosures are optional

### Vacuum Chambers

Features:

- Stainless steel construction
- Clear-View Extension
- Inductance Type Level Sensor
- Aluminum mesh screen
- Tee valve for mounting in vacuum line
- 24 volt solenoid
- User-friendly, simple to remove lid using (3) clamp mechanism
- Vacuum /material line diameters are available in 2" OD to 4.5" OD

### Filter Assembly

Features:

- Floor mount design on stand
- Stainless steel body
- Compressed air accumulator tank with solenoid
- (2) Cartridge filter elements
- Self-dumping flapper
- Covered drum discharge
- 24 volt DC operation
- Vacuum /material line diameters are available in 2" OD, 2.5" OD, and 3" OD. Larger diameters are custom and available upon request

- **Blending** • **Conveying** • **Drying**
- **Feeding** • **Grinding** • **Material Storage**
- **Tubing and Fittings** • **Installation**



## Station Sequencing Panels



- NEMA 12 rated
- Ability to select any vacuum chamber in and out of service while the system is running
- Easily choose your fill method at the touch of a button
- Fill by level or fill by time
- PLC based using the power of the flexible, ultra-compact TWIDO™ processor

## Vacuum Control Valves

- "T" type valves for multi-station systems
- Air operated, solenoid actuated
- 2" – 4.5" OD line sizes
- 24V or 110V available
- Operational LED indicator



## Tubing

Quality tubing from 1.5" OD through 10" OD in aluminum, stainless steel, carbon steel and galvanized steel

- 1.5" – 10" OD
- Wall thickness: 16 gauge, 14 gauge, and 11 gauge
- Materials: Aluminum, Stainless Steel, Carbon Steel, Galvanized Steel
- Available in 20' lengths and must be shipped via common carrier



## Elbows

Tube bends are available in 30, 45, 60 and 90 degree, from 1.5" OD through 8" OD. Perfect for all of your material transfer needs. Bends are offered in aluminum, stainless steel and carbon steel up through 60" center line radius.

- 1.5" – 8" OD
- Center Line Radius: 6", 9", 12", 18", 24", 30", 36", 48", 60"
- Wall thickness: 16 gauge, 14 gauge, 11 gauge
- Materials: Aluminum, Stainless Steel, Carbon Steel
- Nominal standard tangent is two times OD, 6" minimum



## Compression Couplings

Compression couplings are available with black or white gaskets, as well as, with and without gasket protectors in sizes from 1.5" OD through 14" OD. All compression couplings come with an industry compatible, precision die-cut gasket that ensures a tight seal.

- 1.5" – 14" OD
- Zinc plated, steel reinforcement bars provide additional strength and stability
- Grade 5 stress relieved bolts ensure a trouble free installation
- Compression couplings have 2, 3, 4 or 5 bolts



## Wyes

Wyes are made to fit your material transfer systems and provide optimum performance. The 45 degree wyes are offered in 1.5" OD through 6" OD in aluminum, stainless steel and carbon steel.

- 1.5" – 6" OD
- Wall thickness: 16 gauge, 14 gauge, 11 gauge
- Materials: Aluminum, Stainless Steel, Carbon Steel



## Hose

Vinyl flex hose with or without a static dissipating ground wire. Offered in 1.5" through 4" ID. This material handling hose is suitable for both vacuum and pressure applications.

- 1.5" – 4" ID
- Counter-clockwise spiral
- Service temperature range: -4° F to 150° F



## Hose Clamps

Installation components provide you with everything you need to hang your tubing system. From tube hangers and tube clamps to Unistrut.



## Installation Components

Installation components provide you with everything you need to hang your tubing system. From tube hangers and tube clamps to Unistrut.



## Vacuum Wands

- Adjustable air relief is constructed of durable PVC
- All vacuum wands come with handles and end protectors
- 1.5" – 4" OD
- 11 gauge and 14 gauge aluminum or stainless steel



## Sight Glasses

Installed in the material conveying line using compression couplings, the acrylic sight glass allows you to monitor your material flow.

- 1.5" – 6" OD
- 11 gauge and 14 gauge aluminum

