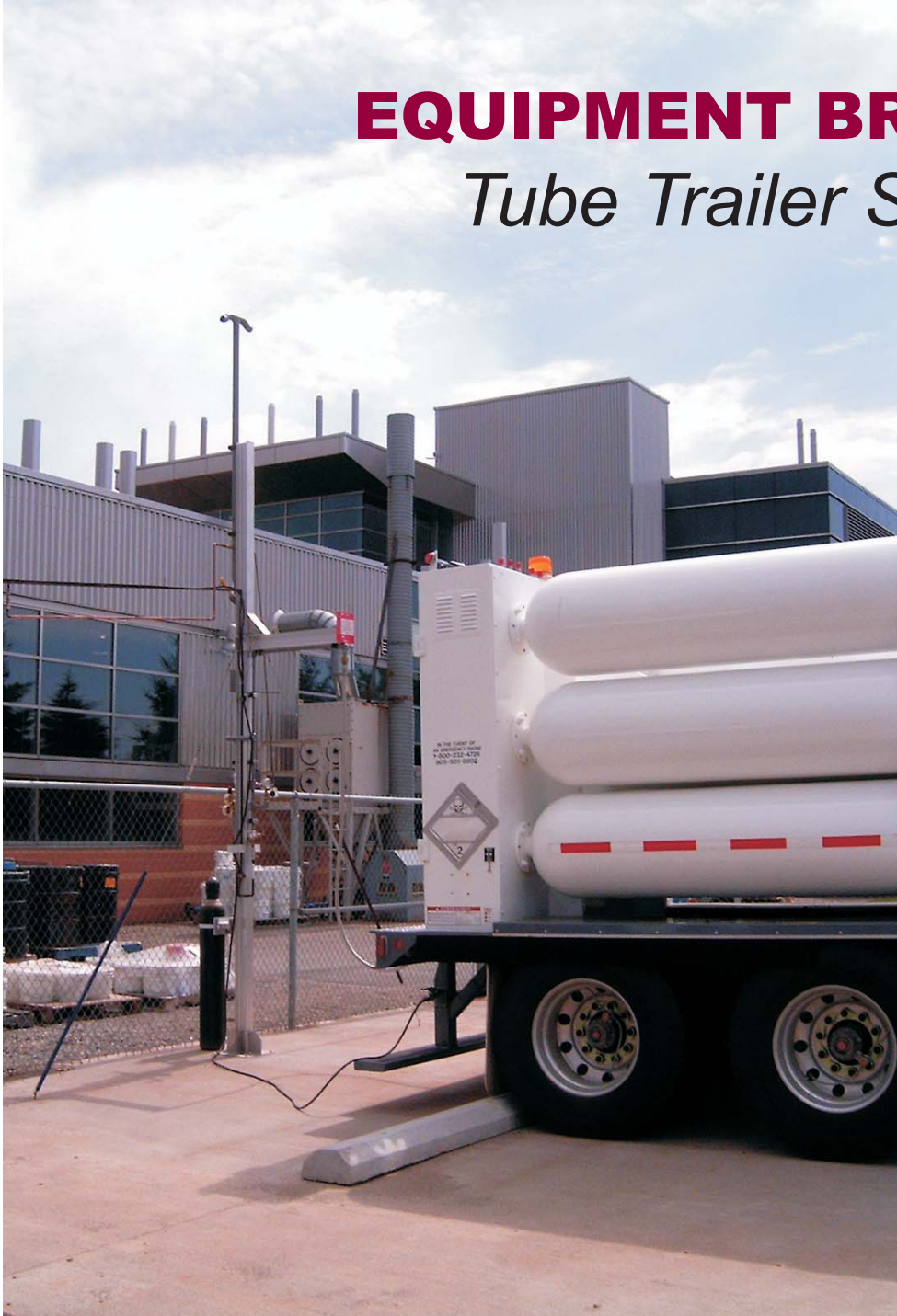
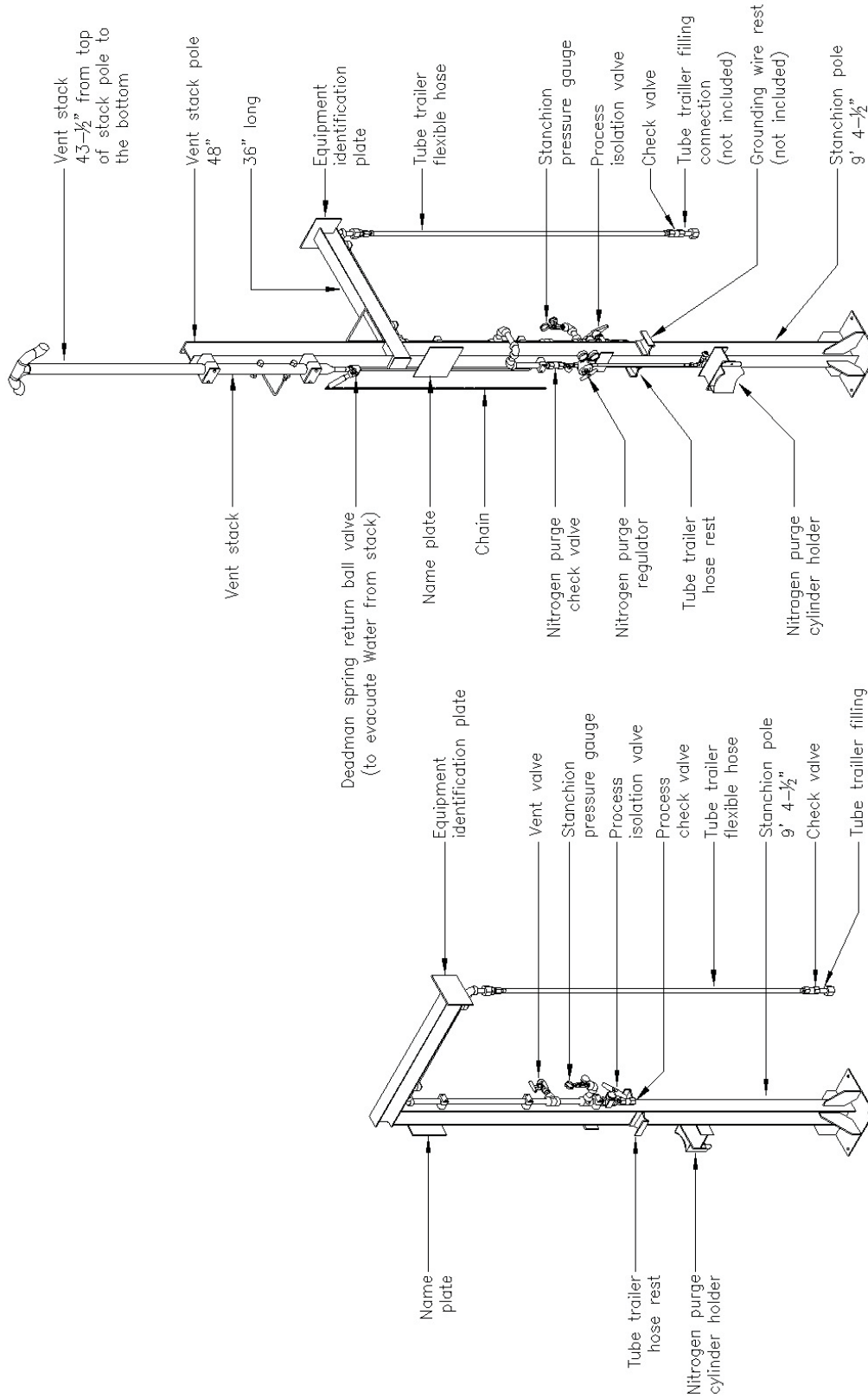


EQUIPMENT BROCHURE

Tube Trailer Stanchions



Helping our customers to become more effective



**DISCHARGING STANCHION
MODEL WITH VENT STACK
& NITROGEN PURGE OPTIONS**

**DISCHARGING STATION
BASIC VERSION**



**TUBE TRAILER STANCHIONS
(CHARGING OR DISCHARGING)
TTS SERIES
TECHNICAL SPECIFICATIONS**

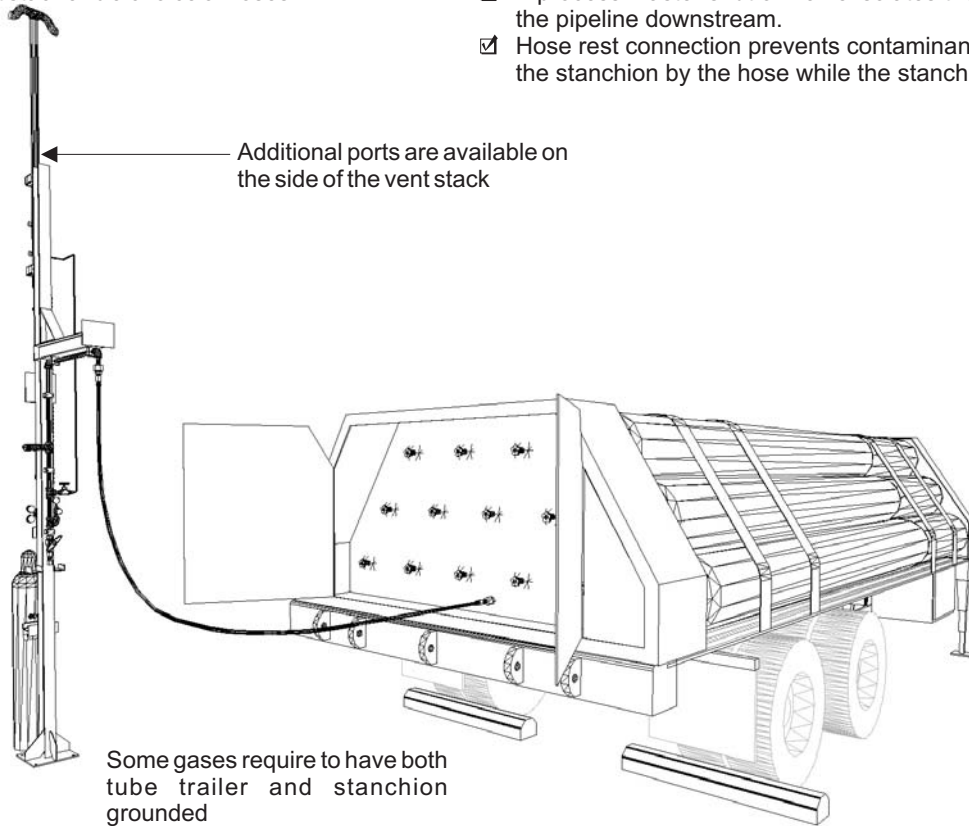
**TTS
SERIES**

DESCRIPTION

The GCE TTS3000 stanchions are a convenient and safe way to connect your tube trailers to a pipeline or to a pressure control cabinet. Discharging stanchions are designed for points of use whereas charging stanchions are designed for tube trailer fill plants. GCE offers a variety of options such as stainless steel construction, built-in nitrogen purge regulators, frame mounted vent stack and a choice of hoses.

STANDARD FEATURES

- Rust-free aluminum mounting frame.
- Optional frame-mounted vent stack.
- Vent valves evacuate contaminants from stanchions.
- A pressure gauge indicates the pressure in the stanchion.
- Optional regulator, purges contaminants and/or dangerous gases before and/or after tube trailer changeouts.
- A process master shut off valve isolates the stanchion from the pipeline downstream.
- Hose rest connection prevents contaminants from entering the stanchion by the hose while the stanchion is not in use.



TYPICAL TUBE TRAILER STANCHION INSTALLATION

HOW TO ORDER - PART NUMBER MATRIX

TTS3000					
Basic series Maximum inlet pressure 3000 psig	Type <input checked="" type="checkbox"/> D = Discharging <input checked="" type="checkbox"/> C = Charging	Fluid <input checked="" type="checkbox"/> Hydrogen = H ₂ <input checked="" type="checkbox"/> Carbon monoxide = CO <input checked="" type="checkbox"/> Methane or Natural gas = CH ₄ <input checked="" type="checkbox"/> Ethane = C ₂ H ₆ <input checked="" type="checkbox"/> Argon = Ar <input checked="" type="checkbox"/> Helium = He <input checked="" type="checkbox"/> Nitrogen = N ₂ <input checked="" type="checkbox"/> Sulfur hexafluoride = SF ₆ <input checked="" type="checkbox"/> Air = AIR <input checked="" type="checkbox"/> Neon = Ne <input checked="" type="checkbox"/> Xenon = Xe <input checked="" type="checkbox"/> Krypton = Kr	Construction <input checked="" type="checkbox"/> B = Brass <input checked="" type="checkbox"/> SS = Stainless steel	Hose <input checked="" type="checkbox"/> TH = Teflon <input checked="" type="checkbox"/> NH = Thermoplastic <input checked="" type="checkbox"/> SH = Stn. Stl. hose	Options <input checked="" type="checkbox"/> NP = Nitrogen purge <input checked="" type="checkbox"/> VS = Vent stack





**TUBE TRAILER STANCHIONS
(CHARGING OR DISCHARGING)
TTS SERIES
TECHNICAL SPECIFICATIONS**

NITROGEN PURGE OPTION

The nitrogen purge option consists of a pressure reducing regulator, a hose and a check valve. This option is used for either safety and/or purity. For obvious safety reasons, it is preferable to evacuate poison or flammable gas out of the stanchion before tube trailer changeouts. Some applications will require extra purity. Nitrogen can push contaminants or slightly contaminated gases that may have entered the tube trailer during changeouts.

VENT STACK OPTION

Tube trailer changeouts require decreasing the hose pressure. If the process gas is either poisonous (like carbon monoxide) or flammable (like hydrogen), it is safer to evacuate these molecules far from the operator. Vent stacks are normally mounted high enough on the stanchion frame so the molecules are vented safely and above the tube trailer line-of-sight.

DISCHARGING STANCHIONS

Tube trailer discharging stanchions are commonly installed at customer locations. They differ from charging stanchions as they have two check valves allowing only the gas to exit the hose inlet to prevent water and airborne contaminants from entering the tube trailer and the process pipeline.

CHARGING STANCHIONS

The charging stanchions are normally installed at tube trailer fill plants. They differ from discharging stanchions as they don't have check valves. Thus, tube trailers can be emptied, vacuumed and filled.

STANDARD MATERIALS OF CONSTRUCTION

Description	Brass Construction	Stainless Steel Construction
Fittings	Brass CDA 377	ASTM A312 F304
Pipe	Brass ASTM B16	ASTM A312 TP304
Valves	Brass, Viton, PTFE	316 Stn. Stl., Teflon
Check valves	Brass, Fluorocarbon, Stn. Stl.	316 Stn. Stl., Fluorocarbon rubber
Regulator	Brass, Teflon, 316 Stn. Stl.	316 Stn. Stl., Teflon
Teflon hoses	Brass end fittings, Teflon core, 304 Stn. Stl. braid	
Thermoplastic hoses	Nylon core, Steel end fittings	
Stainless steel hoses	Type 316L/304L Stn. Stl. fittings, Type 321 Stn. Stl. core, Type 304 Stn Stl braid	

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