DIVERSIFIED STORAGE SYSTEMS
(888) SILO-SYS (888) 745-6797

PD-TANK 2800

Silo Description

PD-TANK 2800™ is a specially designed portable vertical storage system for bulk powder products.

Some innovative futures include: dual discharge systems (gravity or pneumatic), stable height-to-width ratio, low ground pressure (98 PSI) when fully loaded, oversize discharge piping for high speed unloading, integrated vent pipe to discharge pipe (no need for two hookup hoses), easy cleanout, level indicator option available, one valve operation and more practical than a guppy for long term storage applications.

Silo Specifications

Silo Capacity (c.f.)	2800 C.F.
Silo Capacity (Cement)	125 tons*
Operating Pressure	13.5 psig
Bottom Aeration	HV Flow-Cones (6)
Discharge Pipe	5" Sch. 40
Fill Pipe (2)	5" Sch. 40
Vent Pipe	5" Sch. 40
Gravity Secondary Discharge	10" w/ Butterfly Valve
Top Manway	20" Press. dome Lid
Bottom Manway	20" Press. dome Lid
High Level Indicator	Paddle Style
Low Level Indicator	Optional
Standard Operating Pressure	10 - 12 PSI
Over pressure relief settings	14 PSI
Pressure Gauges (2)	1-30 PSI

* Cement can weigh between 88 - 94 lbs. per cubic foot depending on how aerated it is.

PD-TANK 2800™ storage system has "patent applied for" components and proprietary systems. These unique system designs are the property of Diversified Storage Systems.

Patent Pending

Many designs details on this silo are proprietary to DSS

Pictures above are for general layout purposes. Many detail features are left out or may be different from actual.

46 Pioneer Parkway Ph # 903-919-0600
Sulphur Springs, TX Fax # 903-919-0601

www.CementSilos.com

DIVERSIFIED STORAGE SYSTEMS
(888) SILO-SYS (888) 745-6797

PD Tank Manual

SET UP:

Foundation:
The PD Tank has been designed with a wide base. It can be placed on a level compacted soil or a cement/pavement foundation. The foundation needs to withstand 100psi down force.

The PD tank weights 22,000lbs. You will need a crane to erect the tank. (size of the crane depends on the location, Please let crane company
determine the correct size crane.)
The silo is 12' diameter
37' in length
The silo weights 23,000lbs

The PD tank has two lifting lugs on top.
Connect both with 12' straps
The base is strong enough to just tilt the unit up .

Patent Pending
Many designs details on this silo are proprietary to DSS

46 Pioneer Parkway Ph # 903-919-0600
Sulphur Springs, TX Fax # 903-919-060

www.CementSilos.com

DIVERSIFIED STORAGE SYSTEMS
(888) SILO-SYS (888) 745-6797

PD Tank Manual

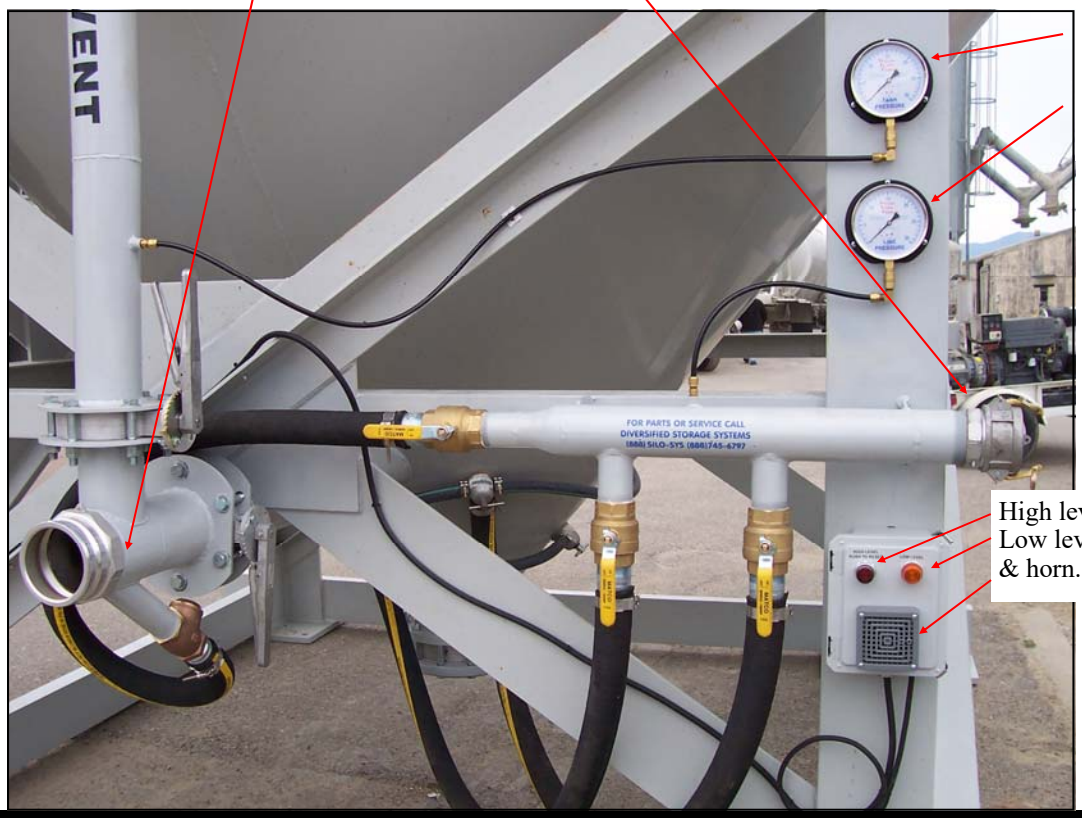
Operation:

The PD Tank has four connection points.

1. The fill/Vent line: (2)
This is a 5" fill line with male camlock. Before filling make sure butterfly valve is open.

2. Hot Air inlet line:
This is the 3" line with male camlock. This line feeds air into the tank and into the cone fluidizers.

3. Product Discharge and vent line:
5" line with male camlock.



Tank pressure

Line pressure

High level light Red
Low level light Amber
& horn. (if equipped)

46 Pioneer Parkway Ph # 903-919-0600
Sulphur Springs, TX Fax # 903-919-0601

www.CementSilos.com

DIVERSIFIED STORAGE SYSTEMS
(888) SILO-SYS (888) 745-6797

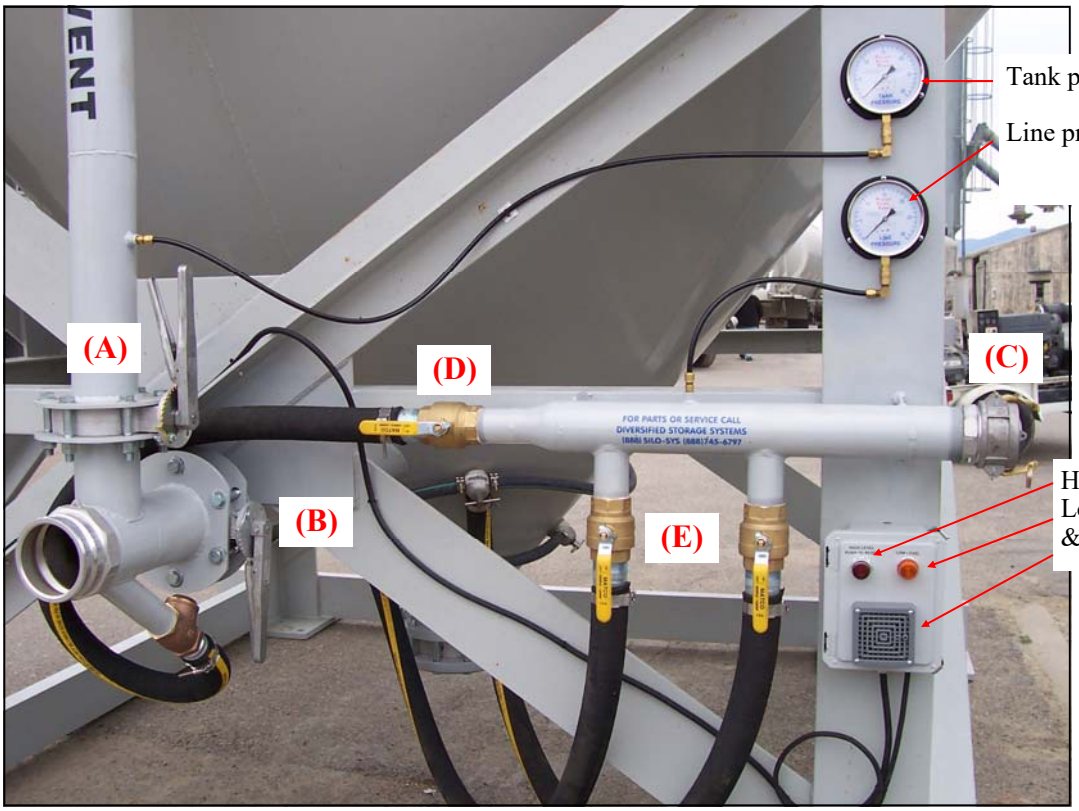
PD Tank Manual

Filling the tank:

1. Confirm fill line Valve to tank **(B)** is closed
2. Attach a vent line to one of the 5" fill/vent lines) . **(the tank needs to be vented into a dust collector/silo with dust collector).**
3. Open vent line & confirm that tank has no pressure.
4. Hook the truck hose to the opposite product fill line.
5. Make sure butterfly valve on fill line is open.
6. Open butterfly valve to vent line
7. Confirm butterfly valve (A) & **(B)** and to tank is closed.

The silo has a hi level light & horn.
Once the horn is sounded it means the tank is full and filling needs to be stopped.
The red light will illuminate and pressing it will turn the horn off.

The tank may have an amber low level light. It will illuminate once the tank reaches that low level.

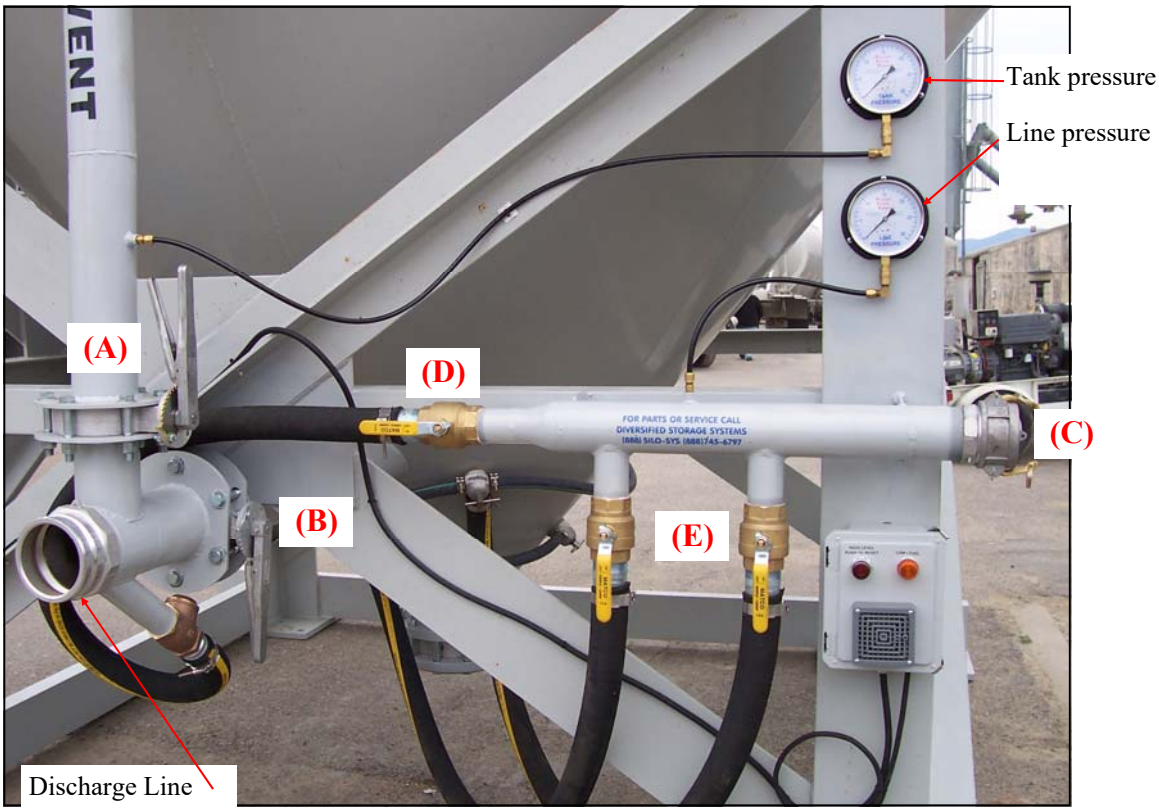


46 Pioneer Parkway Ph # 903-919-0600
Sulphur Springs, TX Fax # 903-919-0601

www.CementSilos.com

Discharge the tank:

1. Hook the hose from discharge line to receiving silo.
2. Make sure butterfly valve on fill/vent line is closed
3. Close butterfly valve to vent line **(A)**
4. Close butterfly valve to tank. **(B)**
5. Hook the blower line to the inlet **(C)**
6. Open the fluidizer valves **(E)** before staring the blower. So you do not deadhead the blower.
7. Start the blower and pressure up the tank to **8psi.**
8. Open discharge valve (B).
9. Crack the chase air line (D) a little.
10. The tank pressure can then operate in the 8-10psi range.
11. Adjust valve (D) until tank is discharging at 8-10psi. If tank pressure goes beyond 10 psi open valve (D) more, if it goes below 8 psi close valve (D) more.



DIVERSIFIED STORAGE SYSTEMS
(888) SILO-SYS (888) 745-6797

PD Tank Manual

Parts List

Description	DSS Part #
2” Ball Valve F/F Brass	VA2-2
0-30 PSI dry gauge	GA4
1 port fluidizer assembly	FUSF1
3 port fluidizer assembly	FUSF3
4” cast iron butterfly valve	VA4C
5” cast iron butterfly valve	VA5C
2”-6” locking plate assembly	VAPT26-1
4”-6” handle assembly	VAPT46
10” cast iron butterfly valve	VA10C
8”-10” locking plate assembly	VAPT10-7
8”-10” handle assembly	VAPT10-6
14psi +/- 1 pressure relief valve 2” f/ pipe thread	VAPR2-14A
3” male camlock x female threads	CL3A
3” dust cap camlock	CL3DC
4” male camlock x male thread	CL4F
4” dust cap camlock	CL4DC
AC grille horn	ELP-1
8 pin terminal socket	ELRL-10
DPDT 120vac general purpose relay	ELRL-8
Bin level indicator	ELBN-2
Red light push button	EL8-10
Amber light	EL8-7
2” hot hose	H2H

46 Pioneer Parkway Ph # 903-919-0600
Sulphur Springs, TX Fax # 903-919-0601

www.CementSilos.com

DIVERSIFIED STORAGE SYSTEMS
(888) SILO-SYS (888) 745-6797

PD Tank Manual

46 Pioneer Parkway Ph # 903-919-0600
Sulphur Springs, TX Fax # 903-919-0601

www.CementSilos.com