Guide for Pneumatic Bulk Tanker Operation.

Pre-starting Check.
1. Securely connect the hot air hose to the tanker & the discharge hose to the silo.
2. Open the boost valve, top air and the rear aeration valve on the tanker (open 2 aeration valves if no top air fitted)
3. Close air dump valve and discharge valves.

Operating Guide.
4. Engage PTO and idle blower/compressor, blowing air into the silo. This ensures the blower/compressor is not started under load.
5. Increase truck rpm to the correct speed for blower/compressor operation. Check blower/compressor;
   - Unit is running smoothly?
   - No mechanical noises?
   - No air leaks?
   - Oil pressure gauge reading OK?
   - Air filter restriction gauge reading OK?
   - No loose parts?
6. Close the boost valve to pressurise the tanker up to the safe working pressure for the tanker or silo.
7. Open the boost valve, then quickly open the rear discharge valve to begin discharging product into the silo.
8. While discharging, monitor the tanker pressure ensuring it remains below the maximum.
   - If tanker pressure too high, open boost valve.
   - If tanker pressure too low, close boost valve slightly.
9. When the tanker pressure drops rapidly close the discharge valve.
10. Open the aeration valve on the next cone, close the rear aeration and boost valves to build tanker pressure. *Repeat steps 7 & 10 until the tanker is empty.*
11. When discharge into silo is complete, clean any remaining product out of each cone.
12. Drain remaining tanker pressure; either into the silo or use the tanker dump valve.
13. Open boost valve, reduce truck rpm to idle, blowing air into the silo to cool the blower/compressor down then dis-engage PTO. This ensures blower/compressor is not shut down under load.

Emergency Shutdown, close all discharge valves, open emergency dump valve on compressor/blower outlet **THEN** shut compressor down.
How to un-block a Dry Bulk Road Tanker.

If a tanker discharge line becomes blocked during unloading it may be possible to unblock the discharge line without the need to disconnect any hoses.

All equipment (valves, hoses and camlocks) need to be in good condition for this to procedure to work.

This procedure should only be carried out by confident competent operator otherwise the blockage could be made worse or equipment could be damaged.

This procedure works by using the blockage to trap pressure between the product blockage and the tanker discharge valve. When this pressure is drained quickly back into the tanker, it creates a vacuum that draws product back with it.

Pre-starting Check.

Open tanker dump valve to drain the tanker pressure down to zero.

Determine if the blockage is due to silo being full or lack of pressure during unloading.

The blockage will be easiest to clear back into the tanker cone that is most empty and closest to the blockage.

Procedure to un-block the product from the discharge line to the silo.

1. Close all aeration valves, fully open the boost line and leave tanker dump valve open.
2. Start up the compressor and set to operating rpm.
   #The relief valve will most likely go off.
3. Fully open discharge valve (closest to silo or the most empty cone), and close quickly. Repeat this procedure until the relief valve does not blow off.
4. Product should run back into the tanker and clear the blockage.
5. Air should now pass through the boost valve and into the silo freely. (The tanker pressure relief valve should not blow off).
6. Open emergency dump valve on compressor/blower outlet THEN shut compressor down.