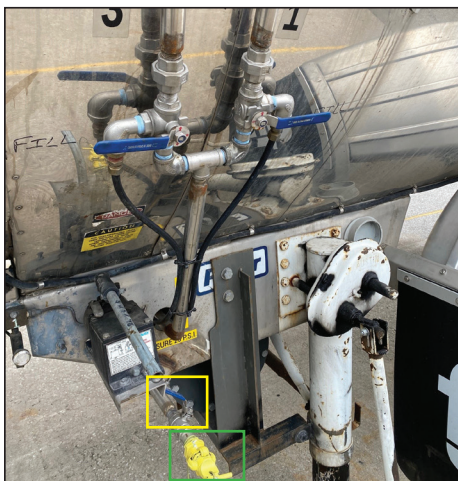


# FS-02-ST

## Offloading Instructions

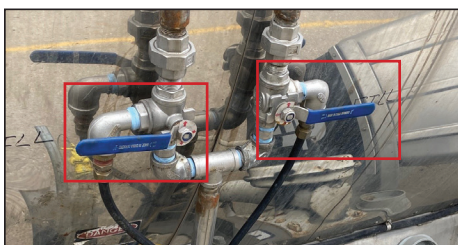


### NITROGEN (N2) CONNECTION TO TANKER

- Nitrogen supply point.** If customer has dedicated supply line, attach it here. If customer does not have a dedicated supply line, use the yellow hose in the tool box and connect to their nitrogen source.
- Nitrogen Supply Valve.** Open valve when ready to pressurize the tanker. Important: customer supply pressure must not exceed 25 psi.

- Blow Down Valve.** Valve remains closed unless you are in the process of depressurizing (blowing down) the tanker.

**Important: Nitrogen Supply Valve and Blow Down Valve should NEVER be opened at the same time.**

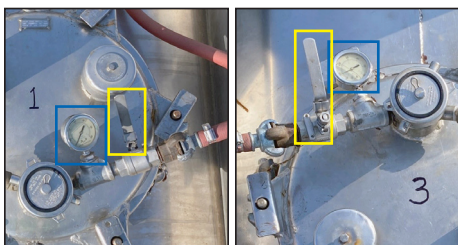


### NITROGEN (N2) VALVES TO COMPARTMENTS 1, 2, 3

**Compartments 1 & 3 Nitrogen Input Valves.** Open valves when ready to pressurize the respective compartments.

**Compartments 1 & 3 Pressure Gauges.** Important: customer supply pressure must not exceed 25 psi.

**Compartment 2.** Compartment 2 is not used for transporting chemical and the valve into it needs to be closed at all times.



Compartment 1

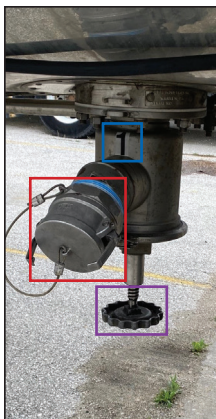
Compartment 3



### BLOW DOWN FITTINGS

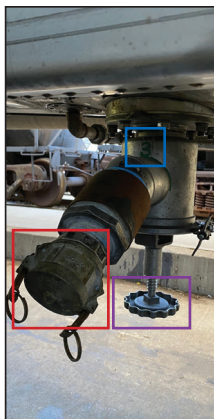
Prior to connecting offload hose to customer's chemical input, a blow down fitting needs to be attached between the tanker and the hose. Choose the correct sized blow down fitting from the storage box on the side of the tanker. The purpose of this fitting is to blow out any remaining chemical in the hose after the offload is complete. To prevent chemical spills when disconnecting the hose, **these fittings must be used on each compartment offload, everytime.**

**IMPORTANT: BLOW DOWN FITTINGS MUST BE WIPED CLEAN AND VASELINE NEEDS TO BE APPLIED PRIOR TO REPLACING PLUGS AND CAPS.**



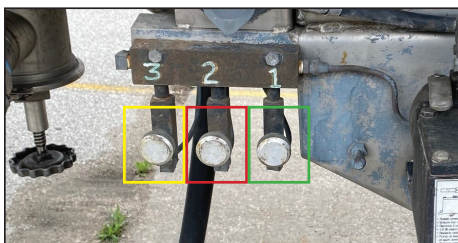
### COMPARTMENT 1 (POLY) OFFLOAD AREA

- Compartment identification.
- External valve handle. **DO NOT** open this handle until all hoses are connected and secured and you are ready to offload chemical.
- Before removing this camlock, make sure both internal and external valves are closed.



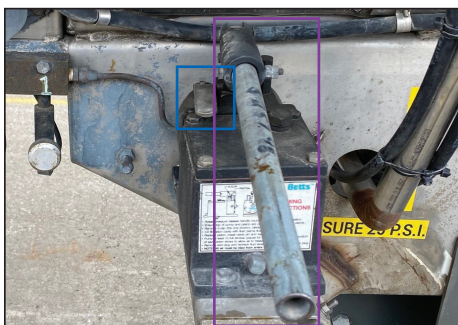
### COMPARTMENT 3 (ISO) OFFLOAD AREA

- Compartment identification.
- External valve handle. **DO NOT** open this handle until all hoses are connected and secured and you are ready to offload chemical.
- Before removing this camlock, make sure both internal and external valves are closed.



### INTERNAL VALVE CONTROLS

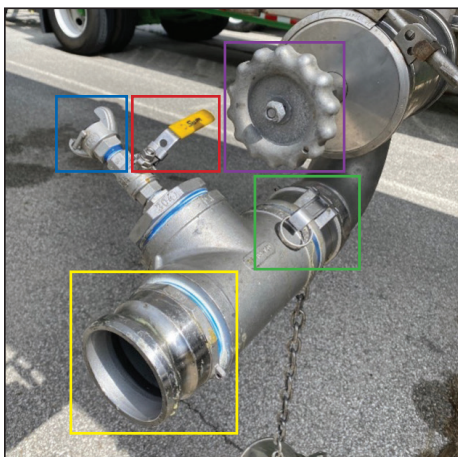
- Compartment 3 – open by turning counterclockwise.
- Compartment 2 – DO NOT OPEN THIS VALVE.
- Compartment 1 – open by turning counterclockwise.



### OPENING THE COMPARTMENT VALVE

- Rotate the pressure valve clockwise to open.
- Pump the handle up and down to open the internal valve. When significant resistance is felt when pumping the handle, you will know that the internal valve is open and chemical offloading can begin.

When chemical offloading is complete, close the pressure valve by rotating counter-clockwise. You can now begin the blowdown process.



### BLOWDOWN PROCESS FOR BLOWING REMAINING CHEMICAL OUT OF THE HOSE

- Female end of fitting attaches to external offload piping.
- Male end of fitting accepts chemical offload hose.
- After chemical has been offloaded, close the external valve.
- Remove main nitrogen connection from tanker and attach to the blow down valve.
- When external valve is closed and nitrogen is connected, the blow down process can begin by opening the ball valve.