



AIR SYSTEM MAINTENANCE INSTRUCTIONS

Maintenance procedure should be performed one (1) week after new equipment is in operation and every 90 days thereafter.

1100 FLOAT SHUT-OFF VALVE

1. Inspect condition of **1100-E Buna-N/Hypalon Valve Seat**. A swollen, cracked or pitted Valve Seat will not make a positive seal resulting in material pullover, and must be replaced.
2. Check **1100-E Valve Seat** alignment by inserting a slip of paper (1/4" x 3") between the Valve Seat and **1100/1101-A Valve Body**, close the Float Shut-Off Valve manually using the **1100-H Lower Arm**, exerting a slight pressure on the Valve Seat. If the paper is easily removed at any location under the Valve Seat, adjustment is required.

ADJUSTMENT PROCEDURE

- A. Adjust **1100-D Cone Point Set Screws** until the spring loaded portion of the **1100-B Pivot Assembly** is compressed 50% of its adjustment.
- B. Adjust **1100-G Upper Arm** on the **1100-B Pivot Assembly** using the two (2) Hex Head Adjustment Bolts to center Valve Seat.
- C. Valve Seat alignment should self adjust when centered. If not, replace Spacer Bushing. When the slip of paper is not easily removed at any location under the Seat Valve, it is properly aligned.

NOTE: A positive seal between Valve Seat and Body is critical to prevent pullover. A small amount of material pulled over every time the Float Valve does not operate properly is almost impossible to detect and over a period of time will do a lot of damage.

3. Lubricate **1100-B Pivot Assembly** with NLG 1 & 2 multipurpose lithium grease.
4. Inspect **1100-J Float Ball** for leaks or accumulation of liquid and replace as required.
NOTE: Excessive accumulation of material in **1107/2107 Vacuum Scrubber** or **1106 Liquid Entry Preventor** is a prime indicator that the **1100/1101 Float Shut Off Valve** is not operating properly. If left uncorrected, material will pullover, resulting in possible pump damage.

1106 LIQUID ENTRY PREVENTOR

1. Check **1103 Float Valve** for proper operation. Inspect condition of **1103-E Buna-N/Hypalon Valve Seat** and **1100-J Float Ball**.
2. Inspect **1106-B 12" Buna-N/Hypalon Cover Plate Gasket**.
NOTE: A deteriorated Gasket will result in loss of vacuum.
3. Lubricate **1106-J Drain Valve** with ACF-105 grease. Drain on pressure only. Do not open on vacuum.

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1107/2107 VACUUM SCRUBBER

1. Steam clean or flush interior of **1107/2107-F Vacuum Scrubber** with the **1107-F Drain Valve** in the open position to remove any accumulation of debris and to assure that the drain line is not plugged.
2. Pressure or vacuum test **1107/2107 Vacuum Scrubber Assembly**, including drain line, for leaks.
NOTE: It is critical that the Vacuum Scrubber and related piping do not leak, causing material pullover.
3. Lubricate **1107-F/2107-F Drain Valve** with ACF-105 grease. Drain on pressure only. Do not open on vacuum.

1115 BLEEDER ASSEMBLY

1. Steam clean or flush **1115 Bleeder Assembly** and check for leaks in piping.
2. Lubricate **1115-A Bleeder Valve** with ACF-105 grease.

PRESSURE INJECTION SYSTEM (OPTIONAL)

1. Check condition of Shut-off Valve and Check Valve.
2. Clean Injection Line with air pressure or by flushing.

1102 LIQUID LEVEL INDICATOR

1. Check **1102-A Packing Gland** for leakage and tighten or replace **1102-A-5 Teflon Packing** as required.
2. Check **1102-G Yoke Assembly** for freedom of movement and inspect **1102-J Float Ball**.

1118 DOME AND 1116/2020 WASHOUTS

1. Inspect **1118-A and 1116-A/2020-A Covers** for excessive corrosion and replace as required.
2. Inspect **1118-B and 1116-B/2020-B Buna-N/Hypalon Gaskets**.
NOTE: A deteriorating gasket can result in loss of vacuum pressure and material being handled.

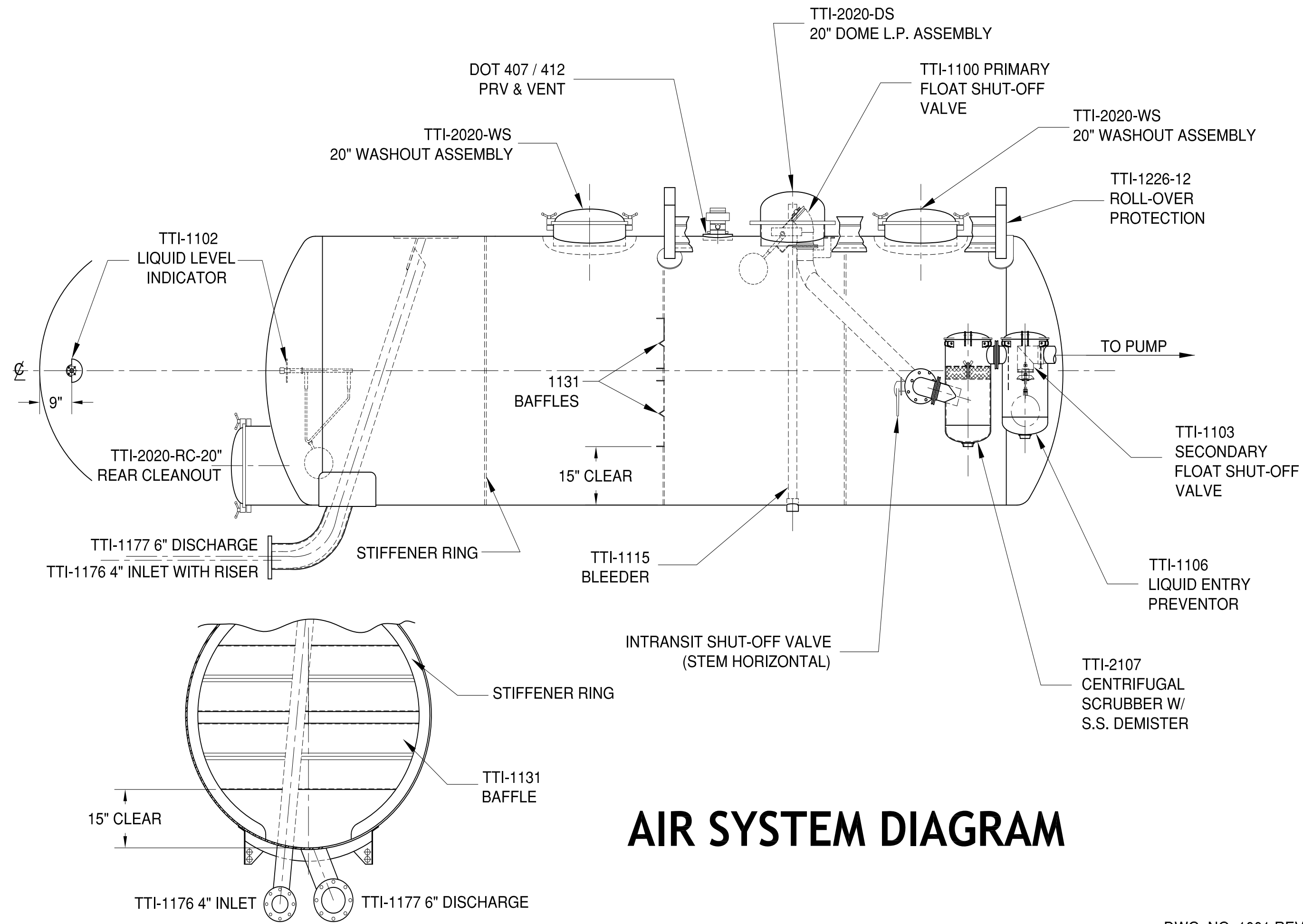
PRESSURE RELIEF VALVE

1. In addition to D. O. T. 180.405 (h) Inspection Requirements, the Pressure Relief Valve should be inspected for general condition, and bench tested to relieve at required setting, as may be required depending on operating conditions.

GAUGE LINE ASSEMBLY

1. Clean gauge lines with air pressure or by flushing with rear Drain-Cock removed.
2. Check **Vacuum-Pressure Gauges** for general condition and accuracy.

FOLDOUT FOR EXPLODED VIEW



AIR SYSTEM DIAGRAM