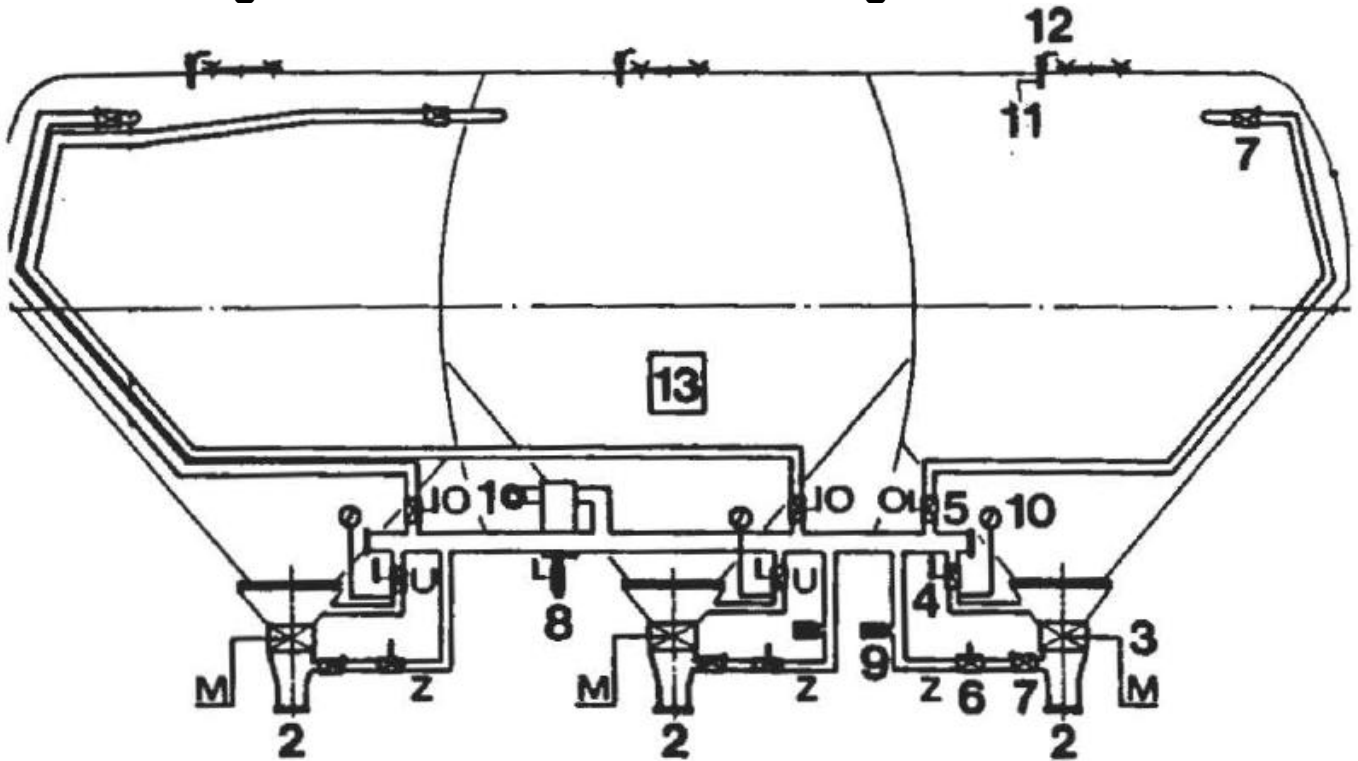


Handling manual to 53 m3 Ucs Tankwagon with three tanks



- 1 AIR SUPPLY COUPLING
- 2 MATERIAL COUPLING
- 3 MATERIAL SHUT-OFF VALVE M BLACK
- 4 SHUT-OFF VALVE FOR BOTTOM AIR SUPPLY..... U GREEN
- 5 SHUT-OFF VALVE FOR UPPER AIR SUPPLY O BLUE
- 6 SHUT-OFF VALVE FOR AUXILIARY AIR SUPPLY Z ORANGE
- 7 CHECK VALVE
- 8 DRAINAGE (Cut-off valve with drain tap) E BROWN
- 9 SAFETY VALVE
- 10 MANOMETER
- 11 BOTTOM AIR SUPPLY SAFETY VALVE
- 12 AIR RELEASE VALVE
- 13 SHORT MANUAL

Maximum operating pressure 2.5 bar – discharge points must be protected against excessive pressure.
Use only dry and oil-free compressed air.

IMPORTANT INSTRUCTIONS

- a) The rubber sealings and the dome cover seats must be kept clean.
The use of mechanical tools (hammers, etc.) to operate the knurled screws is prohibited.
- b) The check valves 7 must be continuously monitored for proper functioning.
- c) The bore 11 in the tank and air release vent line 12, which serves as a pressure safety device, must always be kept clear.
Check: Venting during pressure release.
- e) If the valve actuators become stiff, the gear segments of the actuating shafts must be lubricated with grease.
- f) The actuating levers of the shut-off valves for U, O, Z, E, and the actuating lever of the material shut-off valve M are color-coded.

3 Material shut-off valve	M black
4 Bottom air supply	U green
5 Upper air supply	O blue
6 Supply air supply	Z yellow-orange
8 Drainage	E brown

(Cut-off valve with drain valve)

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The "Open" and "Closed" positions apply to all levers as indicated in the short manual on the wagon.

The material shut-off valves must be closed after emptying.

To prevent blockages, the "closed" position must be checked before emptying the wagon.

UNLOADING PROCESS

1. The shut-off valves U, O, Z and M, as well as the top cover lid of the tank to be emptied, have to be closed.
Connect the material pipe to coupling 2 and the air supply pipe to coupling 1.
Check that the drain valve E is open.
Start the compressor.
Close drain valve 1.
2. Open the upper air supply valve O 1/3 of the way.
Open the bottom air supply valve U completely.
Wait until the operating pressure of 2.5 bar is reached.

The pneumatic emptying can now begin.

3. For pelletized, granulated, and temperature-sensitive materials, the upper air valve O must be fully opened.
The optimal discharge conditions for the different materials must be determined by test discharges.
When discharging sugar, the bottom air supply valve U must remain closed.
First, fully open the auxiliary air valve Z.
Then fully open the material shut-off valve M.
4. Observe manometer 10 and maintain a constant operating pressure using the auxiliary air valve Z.

If the pressure drops, slightly close the auxiliary air valve Z.
If the pressure rises, slightly open the auxiliary air valve Z.

If the safety valve 9 releases even though the bottom air valve U, upper air valve O, auxiliary air valve Z, and material shut-off valve M are fully open (excess air), the drain valve E must be opened until the safety valve 9 closes and the operating pressure remains constant.
5. The end of the emptying process is indicated by a rapid drop in the operating pressure.

Close the auxiliary air valve Z and upper air valve O.
Open and close the bottom air valve U several times.
Close the material shut-off valve M and disconnect the material pipe.

To remove the small residual amount in the pipe fitting on the other side of the wagon, the material shut-off valve M on that side must be opened, and this pipe fitting must be cleared by briefly opening the auxiliary air valve Z on the emptying side.

Close the bottom air valve U, auxiliary air valve Z, and material shut-off valve M.

6. This process (2-5) is to be repeated if another tank needs to be emptied.
7. After the entire emptying process is complete, switch off the compressor.

Open drain E and leave it open to allow the water release to empty.

In case of operational disruptions, the owner of the wagon must be notified immediately by telephone or email.

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