



### Standard Operation Procedure

## ISO TANK MDI CLEANING PROCEDURE WITH HIGH PRESSURE BOILER

Note: This Standard Procedure assumes that tank wash facility has 2 bar steam available.

1. **CAPTURE HEEL:** Open rear discharge valve. Capture any heel for proper disposal.
2. **DRY REMAINING RESIDUE:** The remaining residues will respond better if steamed to set-up. Apply live steam to tank for 15 minutes, then blow-dry the tank.
3. **ADD CHEMICAL:** With rear discharge valve closed, pour 76 liters (20 gallons) of John-Henry M-PINGE 99 into tank. Close dome lid but DO NOT clamp down. Crack Open Air Charge Valve.
4. **STEAM COILS:** Apply steam to heating coils. Elevate temperature to 127°C, and maintain for 4 hours minimum. Then, turn off steam and allow tank to cool, usually overnight.
5. **OPENTANK:** Carefully open dome lid, open rear discharge valve and capture the spent M-PINGE 99 for disposal. Perform several cold or hot water rinses.
6. **WASH TANK:** Optionally (if a corporate requirement) Caustic or Booster wash tank / Rinse / Dry / Inspect.

CHEMICAL USAGE: 20 Gallons (76L) of **M-PINGE 99** removes MDI. When excessive residues remain, more chemical is required. Repeat process beginning with Step 3.

NOTE: Chemical expenses can be minimized by re-using the M-Pinge 99/isocyanate mixture. While chemical is still hot it can be drained from one tank and pumped into another for the same process. Up to 3 tanks can be treated with the recommended amount.

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