HYDROWHIRL® STINGER (HWS2) INSTALLATION & MAINTENANCE

1. THREADED NOZZLES:

The new HydroWhirl Stinger (HWS2) features self-cleaning pipe threads. **Pipe tape or sealant is not recommended**, as this negates the flushing design of the threads.

To install the tank cleaning nozzle, we recommend using a rubber strap wrench or hand-installation with nitrile gloves to avoid any damage to the bearings and hygienic surface. Only apply the strap wrench within the thread area; otherwise, damage and faulty nozzle rotation may result. Do not over-tighten.



Visit www.bete.com/products/hydrowhirl-s to reference our *Use and Maintenance Manual* for maximum torque values.

2. CLIP-ON NOZZLES:

Clips or spring anchors are wear parts; they should be checked regularly. Visit www.bete.com/products/hydrowhirl-s to reference our *Use and Maintenance Manual* for more clip-on connection pipe preparation information.

3. OPERATION OF NOZZLES:

Rated for use with liquids only. Before initial operation, make sure there are no residues such as chips, welding beads, or foreign matter in the piping system. We recommend inserting a filter upstream from the nozzles. The minimum recommended filter rating to help prevent clogging and rotation issues is 200 mesh (70 micron).

- Compressed air, steam, or other gasses should never be run through the nozzle as the bearings are lubricated by the process media.
- Recommended Operating Pressure: Between 30 – 50 psi (2 – 3.5 bar) for optimal performance
- Maximum Operating Pressure: 80 psi (5.5 bar)
- Maximum Operating Temperature*: 200 °F (93 °C)
  *with water-based cleaning agents
- Maximum Non-Operating Temperature: 500 °F (260 °C). Allow the nozzle to cool down before liquid flows through to avoid vaporization in the heated nozzle.

4. CLEANING THE NOZZLE:

In case any foreign matter should enter the nozzle despite precautionary measures, we recommend cleaning the HydroWhirl Stinger in an ultrasonic bath for 30 to 60 minutes. For further assistance, please contact BETE Applications Engineering by email at appeng@bete.com.

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