

HYDROWHIRL® STINGER (HWS2) INSTALLATION & MAINTENANCE

1. THREADED NOZZLES:

The new HydroWhirl Stinger (HWS2) features patent-pending 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:

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).

- Recommended Operating Pressure*: 30 – 50 • PSI (2 – 3.5 bar) *for optimal performance
- Maximum Operating Pressure: 80 PSI (5.5 bar)
- Maximum Operating Temperature**: 200 °F (95 °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 S in an ultrasonic bath for 30 to 60 minutes. For further assistance, please contact BETE Applications Engineering by email at appeng@bete.com.