

HydroWhirl® S Installation and Maintenance

1. Threaded Nozzles:

To install the tank washing nozzle, we recommend using a strap wrench in order to avoid any damage to the ball bearings and surface.

The strap wrench may only be applied within the area of the thread, otherwise damage might be caused to the nozzle and a faulty nozzle rotation may result.

Strap wrenches are available upon request:
Stock #164237.



2. Weld-On Nozzles:

Welding procedures vary greatly by industry and company. The appropriate size pipe/tube should be prepared in accordance with the weld procedure of the end user.

Appropriate cooling measures are to be taken during welding to ensure that the bearing section does not see excessive heat that may damage the housing and cause faulty nozzle rotation.

3. 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.

4. 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: 150 PSI (10 bar)
- Maximum Operating Temperature**: 200 °F (95 °C)
**with water-based cleaning agents, may vary for ATEX models

5. 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 or by phone at 413-772-0846.