

# HYDROWHIRL® S INSTALLATION & MAINTENANCE

## 1. THREADED NOZZLES:

When installing threaded tank wash nozzles, we recommend using a strap wrench to avoid damage to the bearings and surface finish.

Only apply the strap wrench within the area of the thread. Otherwise, damage may be caused to the nozzle, resulting in faulty rotation.

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](http://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](mailto:appeng@bete.com).