

## HydroWhirl™ RB rotary ball spray nozzle for quick, efficient tank cleaning

The HydroWhirl™ RB nozzle directs the cleaning water through a set of concentric tubes over a reactionary turbine and then into a rotating head at the tip of the spray assembly. The spray pattern from the HydroWhirl RB is especially effective at quickly removing loose contaminants. Rotating spray balls are ideal for applications that require both washing and rinsing.

### Advantages of HydroWhirl RB rotary spray nozzle.

- Spins to provide a more complete coverage than static spray balls
- Continuous wetting
- Complete 360° coverage

### The HydroWhirl RB nozzle has been carefully designed for long service life.

#### Low-maintenance bearing design

- Self-cleaning bearings are lubricated by water flow to clear away particles

#### High-precision assembly

- Holes in the spray balls are laser cut after the balls are formed – ensuring accurate placement and shape of holes
- Stainless steel construction – durable and corrosion-resistant

#### Made from rolled steel, not forged – no internal stress points

- 100% welded assembly
- Made to BETE quality standards by European high precision stainless steel fabricator
- Made from FDA-approved materials for use in Clean-in-Place (CIP) applications

#### Comprehensive quality control

- Material traceability controlled throughout production
- Lab testing validates minimum service life of 300 hours

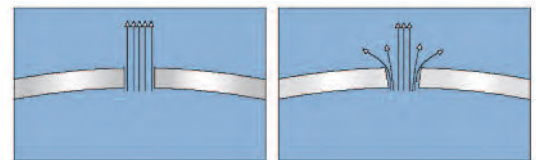


*Laser cut holes ensure accuracy*

#### Design flexibility

- Available in many different sizes and connections – threaded, clip-on or welded
- 360° omni-directional spray pattern standard; other spray angles available upon request
- Flow range: 7.4 – 144 gpm
- Dual bearing design – nozzle operates effectively in any orientation

The HydroWhirl RB nozzle is an outstanding combination of design, quality, and engineering. The HydroWhirl RB nozzle is ideal for anyone who needs an improvement over their static spray ball tank wash system without changing flow rate and pressure.



*Laser cut holes*

*Non Laser cut holes*

BETE Fog Nozzle, Inc. has been a pioneer in nozzle engineering, manufacturing, and applications for over 55 years. BETE nozzles are used throughout the food processing and pharmaceutical industries. BETE Applications Engineering will work with you to help during trial runs and ensure you choose the optimal spraying solution.

# BETE®

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# HydroWhirl™ RB

## Rotating Tank Wash Nozzle

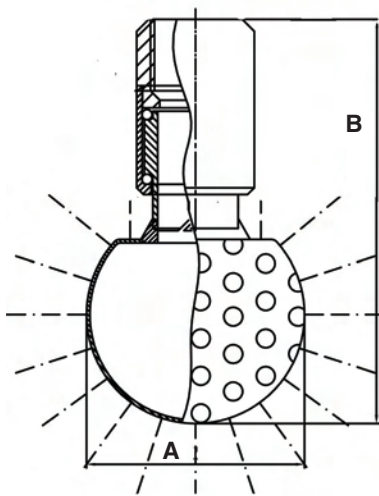
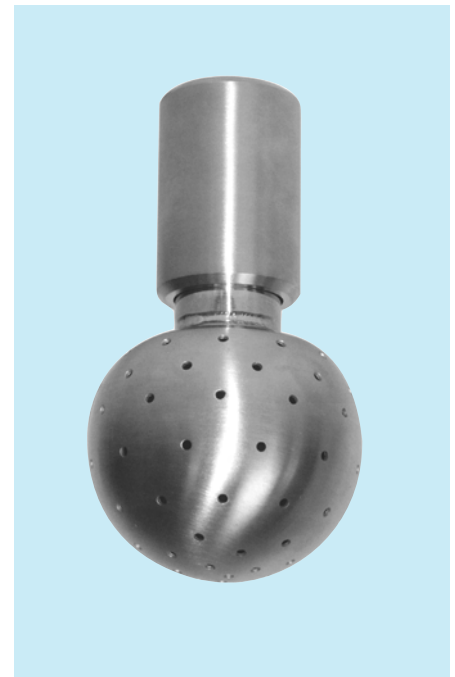
### DESIGN FEATURES

- Self-cleaning bearings
- Laser cut holes ensure spray accuracy
- 100% welded assembly
- Stainless steel construction - durable and corrosion-resistant
- Three Connections - threaded, clip-on, and welded
- Made from FDA approved materials for use in Clean In Place (CIP) applications.

### SPRAY CHARACTERISTICS

- Spins to provide a more complete coverage than static spray balls
- Continuous wetting
- Complete 360° coverage

**Flow rates:** 7.4 to 144 gpm



HWRB 360°, threaded connection

### HydroWhirl RB Coverage Chart

When spraying at 40 psi

Nozzle Number	Washing Diameter (ft)
HWRB-30	3.3
HWRB-40	8.2
HWRB-64	9.8
HWRB-90	16.4

Dimensions are approximate. Check with BETE for critical dimension applications.  
Not recommended for applications over 60 psi.

### HydroWhirl™ RB Flow Rates and Dimensions

Female Pipe Size	Nozzle Number	Spray Angle	GALLONS PER MINUTE @ PSI						Dimensions (in)		Wt (oz)
			10 psi	20 psi	30 psi	40 psi	50 psi	60 psi	A	B	
1/4"	HWRB-30	360°	7.40	9.87	11.75	13.40	14.57	15.62	1.17	2.71	3.04
1/2"	HWRB-40	360°	17.65	23.62	28.00	31.60	34.71	37.49	1.57	3.14	4.00
3/4"	HWRB-64	360°	35.09	48.76	58.95	67.23	75.03	82.00	2.51	4.69	10.56
1"	HWRB-90	360°	60.41	84.52	102.99	118.70	131.97	144.00	3.55	6.42	25.44