HydroWhirl™S slotted rotating spray nozzle for quick, efficient tank cleaning

The HydroWhirl™S nozzle directs the cleaning water through a rotating head at the tip of the spray assembly. This produces a vigorous moving spray action against all areas of the walls of a tank. The spray pattern from the HydroWhirl S head uses impact and repetition to guickly wash the tank. This spray pattern is especially effective at breaking up and removing contaminants.

Advantages of the HydroWhirl S rotary spray nozzle.

- Cleans more quickly, but uses less water and lower pressure than static tank washers
- Complete 360° coverage
- Lower flow and pressure mean smaller pump size resulting in lower operating costs

The HydroWhirl S 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 machining and finish

- Stainless steel construction corrosion resistant
- Orbital welded design durable assembly
- Made from rolled steel, not forged no internal stress points
- Surface finish of 0.8 microns R_a or better
- 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



Surface finish ideal for sanitary applications

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: 3.72 89.7 gpm
- Dual bearing design nozzle operates effectively in any orientation

The HydroWhirl S nozzle is an outstanding combination of design, quality, and engineering. The HydroWhirl S nozzle is ideal for anyone who needs reliable, efficient cleaning of tanks and other interior spaces.

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.



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HydroWhirl[™]S

Tank Washing - Slotted Spray Nozzle

DESIGN FEATURES

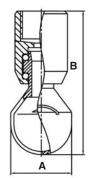
- Cleans more quickly, but uses less water and lower pressure than static tank washers
- Surface finish ideal for sanitary applications
- Orbital welded design durable assembly
- Stainless steel construction corrosion resistant
- Three connections threaded, clip-on and welded
- Made from FDA approved materials for use in Clean-In-Place (CIP) applications.

SPRAY CHARACTERISTICS

- Self-cleaning bearings
- Vigorous moving spray action
- Complete 360° omnidirectional coverage

Flow rates: 3.72 to 89.7 gpm





HWS-20 - HWS-50

When spraying at 40 psi							
Nozzle Number	Washing Diameter (ft)						
HWS-20	4.9						
HWS-30	6.6						
HWS-40	13.1						
HWS-40 HF	13.1						
HWS-50	19.7						

CONNECTION SIZES								
Connection Type	Nozzle Number							
	HWS20	HWS30	HWS40	HWS40HF	HWS50			
Pipe Clip On	10 mm	3/8", 1/2"	3/4", 1"	3/4", 1	1-1/2"			
Tube Clip On		3/4"	1"	1"	2"			
Pipe Weld On	1/4"	3/8", 1/2"	3/4", 1	3/4", 1	1-1/2", 2"			
Tube Weld On	1/2"	3/4"	1"	1"	2"			
FNPT	1/8"	1/4"	3/4"	3/4"	1-1/2"			

Dimensions are approximate. Check with BETE for critical dimension applications.

Not recommended for applications over 60 psi.

HydroWhirl™ S Flow Rates and Dimensions

Female Pipe Size	Nozzle Number	Spray Angle	GALLONS PER MINUTE @PSI					Dimensions (in)		Wt	
			10 psi	20 psi	30 psi	40 psi	50 psi	60 psi	А	В	(oz)
1/8"	HWS-20	360°	3.72	4.58	5.37	6.30	6.37	6.50	0.655	1.68	0.88
1/4"	HWS-30	360°	6.37	8.65	10.41	11.96	13.08	14.10	1.1	2.34	3.28
3/4"	HWS-40	360°	10.47	14.45	17.52	20.21	22.27	24.14	1.53	3.65	10.80
3/4"	HWS-40 HF	360°	16.66	23.09	28.05	32.39	35.74	38.80	1.53	3.65	10.64
1 1/2"	HWS-50	360°	37.96	52.96	64.26	73.60	82.08	89.70	2.72	6.1	53.76