



THE  
**SPRAY NOZZLE**  
PEOPLE

**HYDROWHIRL®**  
**POSEIDON®**

PTFE Rotary Nozzle



# TANK WASH

## DESIGN FEATURES

- ✓ Cleans more quickly and uses less water and lower pressure than static tank washers
- ✓ PTFE construction:
  - Ideal for harsh chemical environments
  - Corrosion resistant
- ✓ Available in threaded, pipe, tube, or DIN clip-on connections
- ✓ Made from FDA compliant materials for use in Clean-In-Place (CIP) applications

## SPRAY CHARACTERISTICS

- ✓ Slow spinning produces longer spray dwell time on the target surface, increasing impact over conventional rotating designs
- ✓ Complete 360° omnidirectional spray pattern, other spray angels available upon request
- ✓ Flow rates: 58.3 to 333 l/min
- ✓ Minimum Tank Opening: Small 75mm, Large 83mm



The HydroWhirl Poseidon is an all-PTFE tank cleaning head which means it is suitable for use in highly corrosive and aggressive environments as PTFE is one of the most chemically inert compounds.

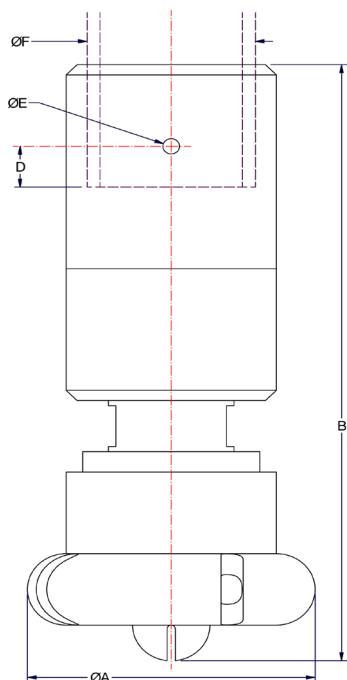
The HWP's rotation is powered by the cleaning fluid and its slow rotation gives a robust clean for medium sized tanks.

It is not recommended for applications over 4 bar.

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[www.spray-nozzle.co.uk](http://www.spray-nozzle.co.uk)

The Go-to People for spray nozzle solutions



## HydroWhirl® Poseidon® Connections and Dimensions

| Connection Type                       | Nozzle Number |      |      |                  |      |      |                  |        |      |                                      |        |        |
|---------------------------------------|---------------|------|------|------------------|------|------|------------------|--------|------|--------------------------------------|--------|--------|
|                                       | HPW-10        |      |      | HPW-32<br>HWP-28 |      |      | HWP-32<br>HWP-37 |        |      | HWP-48<br>HWP-55<br>HWP-65<br>HWP-73 |        |        |
| <b>FNPT/BSP</b>                       | 1/4"          | 3/8" | 1/2" | 3/8"             | 1/2" | 3/4" | 1/2"             | 3/4"   | 1"   | 1"                                   | 1 1/4" | 1 1/2" |
| <b>Pipe Clip-On</b>                   |               |      |      |                  |      |      | X                |        |      |                                      |        |        |
| <b>Dim F (mm)</b>                     | 13.7          | 17.3 | 21.3 | 17.3             | 21.3 | 26.7 | 21.3             | 26.7   | 33.5 | 33.5                                 | 42.2   | 48.3   |
| <b>Tube Clip-On</b>                   | 1/2"          | 3/4" |      | 3/4"             | 1"   |      | 1"               | 1 1/4" |      | 1 1/2"                               | 1 3/4" |        |
| <b>Dim F (mm)</b>                     | 12.7          | 19.1 |      | 19.1             | 25.4 |      | 25.4             | 38.1   |      | 38.1                                 | 44.5   |        |
| <b>DIN Clip On (DIN 11866 Part A)</b> | DN10          | DN15 |      | DN15             | DN20 |      | DN20             | DN25   |      |                                      | DN40   |        |
| <b>Dim F (mm)</b>                     | 13            | 19   |      | 19               | 23   |      | 23               | 29     |      |                                      | 41     |        |

## HydroWhirl® Poseidon® Nozzle Flow Rates & Dimensions

Standard Materials: PTFE (nozzle), 316 Stainless Steel (retaining clip)

| Nozzle Number | Spray Angle | Litres Per Minute @ BAR |       |         |       |       |       | Dimensions |       |      |     | Mass (g) | Coverage Diameter (m) |
|---------------|-------------|-------------------------|-------|---------|-------|-------|-------|------------|-------|------|-----|----------|-----------------------|
|               |             | 0.5 BAR                 | 1 BAR | 1.5 BAR | 2 BAR | 3 BAR | 4 BAR | A          | B     | D    | E   |          |                       |
| HWP-10        | 360°        | 14.3                    | 20.3  | 24.9    | 28.8  | 35.4  | 40.9  | 42.7       | 100.1 | 12.7 | 2.4 | 85       | 2.7                   |
| HWP-23        |             | 30.3                    | 43.1  | 52.9    | 61.2  | 75.2  | 87    | 49.5       | 104.6 | 12.7 | 4.1 | 113      | 3.4                   |
| HWP-28        |             | 34.6                    | 49.0  | 60.0    | 69.3  | 84.9  | 98    |            |       |      |     |          | 4.3                   |
| HWP-32        |             | 37.5                    | 53.8  | 66.5    | 77.2  | 95.4  | 111   | 76.2       | 162.6 | 12.7 | 4.8 | 595      | 4.3                   |
| HWP-37        |             | 48.5                    | 69.2  | 85.2    | 98.7  | 122   | 141   |            |       |      |     |          | 4.9                   |
| HWP-48        |             | 66.0                    | 94.0  | 116     | 134   | 165   | 191   | 83.8       | 184.4 | 12.7 | 4.8 | 822      | 7.3                   |
| HWP-55        |             | 75.4                    | 107   | 132     | 153   | 188   | 218   |            |       |      |     |          | 7.6                   |
| HWP-65        |             | 98.7                    | 140   | 171     | 198   | 243   | 281   |            |       |      |     |          |                       |
| HWP-73        |             | 108                     | 153   | 187     | 216   | 265   | 307   |            |       |      |     |          |                       |

**Ask our technical sales engineers about additional products and services to optimise your spraying process.**

## Spray Calibration Solutions

Easy-to-use, fast measurement solutions to ensure accurate nozzle installation and maintenance, reduce water wastage and identify nozzle wear.



**Spray Pattern & Droplet Distribution**



**Nozzle Flow Calibrators**



**Nozzle Cleaning Kit**

## Complete Spray Bars

Tailored nozzle selections and spray bar designs that integrate seamlessly with your new or existing setup.

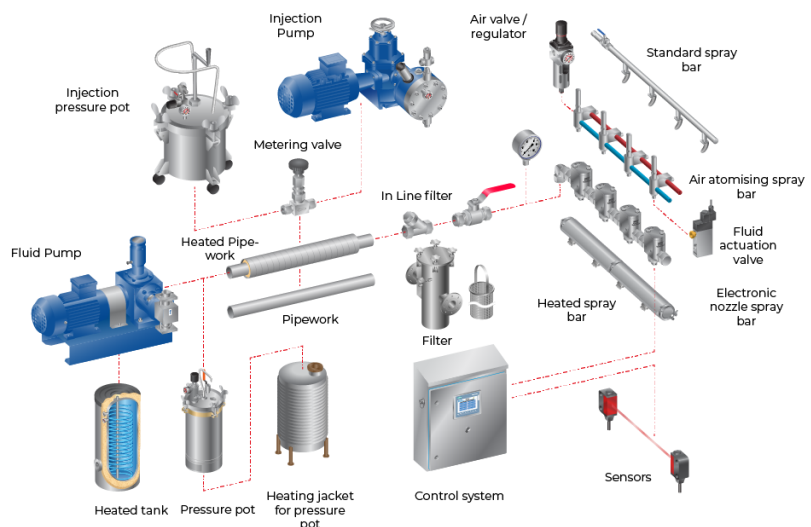
- ✓ Expert nozzle selection and placement
- ✓ Efficient spray coverage
- ✓ Fast turnaround time
- ✓ Reduced design burden
- ✓ High-quality spray bars



## Complete Custom Spraying Systems

Complete spraying systems built around your goals and application.

- ✓ Tailored upstream components supplied individually or as part of complete system
- ✓ Custom pipework, pumps, tanks, sensors, valves, heating, control panels and more
- ✓ Seamless integration with existing processes
- ✓ Built to budget and ROI targets
- ✓ End-to-end support: design, install, maintain



**THE GO-TO PEOPLE FOR SUCCESSFUL SPRAY ENGINEERING**