

Born in Water

75 years of Evolution, **time for the next leap**

Danfoss **Spray Technologies** is utilizing 75 years of oil spraying knowledge and experience, expanding the portfolio to sustainable water nozzle applications.



Precision

Ensuring the best spraying performance by highest repeatability of each nozzle.

Performance

Outstanding water atomization combined with high quality spray pattern.

Efficiency

Best water atomization combined with high quality spray pattern at given system pressure.

WHY IS DANFOSS DIFFERENT...

We've put 75 years of experience into water. Our new water nozzles are developed, produced, and constantly improved, based on our simplex pressure swirl atomization principle.

Our guarantee and promise

Premium quality, best performance, long-lasting reliability, claiming the highest demand on repeatability and efficiency.

75 YEARS



**> 250. Mio Nozzles
produced**

Applications

Danfoss water application nozzles are suitable for a wide range of operational areas:



Humidification

Water mist to humidify HVAC systems in buildings.



Adiabatic Cooling

High quality water mist to cool down ambient air.



Pest Control

Efficient sprays for mosquito control.



Agriculture

Efficient water mist sprays for agriculture application.



Dust Control

Water mist for dust control in harsh working environments.



Wood Processing

Perfect evaporation for wood processing.



Fire Fighting

High pressure water mist for fire protection.



Artificial snow production

High pressure water mist for snow production.

Get to know our water nozzles adjusted & customized to fulfill your demand.

Meet the **classic HX**

"Danfoss water nozzles are designed for all water-based fluids."

"Lifetime depends on the nozzle specification you choose."

Specifications

➤ Material properties

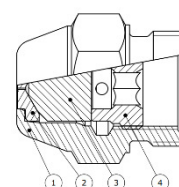
- **Disk & Cone:** Nickel Silver / Stainless Steel (AISI303)
- **Housing:** Brass – Plating SnNi (Tin-Nickel)
- **Filter Adapter:** Brass – Plating SnNi (Tin-Nickel)
- **Bottom Screw:** Brass – Plating SnNi (Tin-Nickel)
- **Valve:** Stainless Steel (AISI303)

➤ Connection properties

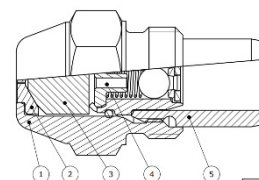
- **Thread size:** 9/16 – 24 UNEF
- **Thread Size:** 1/4 "

➤ Operational properties

- **Angle Variation:** 30° - 80°
- **Pressure:** Up to 80 bar
- **Packaging Size:** 50 pcs. / 10 pcs.



| Parts List | |
|------------|--------------|
| ITEM | DESCRIPTION |
| 1 | HX Housing |
| 2 | Disk |
| 3 | Cone |
| 4 | Bottom Screw |



| Parts List | |
|------------|-------------|
| ITEM | DESCRIPTION |
| 1 | HX Housing |
| 2 | Disk |
| 3 | Cone |
| 4 | HX Valve |
| 5 | Screw |

Your Benefits

- 75 years in design & function
- High corrosive resistant plating
- Anti drip function
- Individual customization

Technical Facts

- Angle and capacity are specified at a pressure at **10 bar (25°C Water)**
- The nozzle valve has an opening pressure of **5,5 bar**
- Our nozzles are available with or without **Anti drip function**
- Packaging Size: **50 pcs. / 10 pcs**

Get to know our water nozzles adjusted & customized to fulfill your demand.

Meet the Slimline

"Danfoss water nozzles are designed for all water-based fluids."

"Lifetime depends on the nozzle specification you choose."

Specifications

➤ Material properties

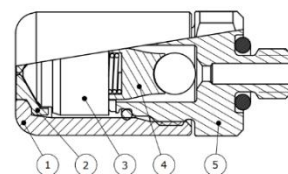
- **Disk & Cone:** Nickel Silver / Stainless Steel (AISI303)
- **Housing:** Brass – Plating SnNi (Tin-Nickel)
- **Screw:** Brass – Plating SnNi (Tin-Nickel)
- **Valve:** Stainless Steel (AISI303)

➤ Connection properties

- **Thread size:** UNC 10-24
- **Thread Size:** UNC 12-24

➤ Operational properties

- **Angle Variation:** 30° - 80°
- **Pressure:** Up to 80 bar
- **Packaging Size:** 50 pcs.



| Parts List | |
|------------|-------------|
| ITEM | DESCRIPTION |
| 1 | SL Housing |
| 2 | Disk |
| 3 | Cone |
| 4 | SL Valve |
| 5 | Screw |

Your Benefits

- Unique & compact design
- Anti drip function
- High corrosive resistant plating
- Mounting by hand
- Individual customization

Technical Facts

- Angle and capacity are specified at a pressure at **14 bar (25°C Water)**
- The nozzle valve has an opening pressure of **5,5 bar**
- Our nozzles are available with or without **Anti drip function**
- Packaging Size: **50 pcs**

We have done the measurements. You can rely on our repeatability and high-end quality.

Extensive investigation and evaluation to **match the right performance.**

A lot goes into each small droplet...

Following the premises of Fraunhofer diffraction scattered light absorbent particles method, our nozzles atomize water and water-based fluids into very fine droplets, associated with the best homogeneous spray pattern.



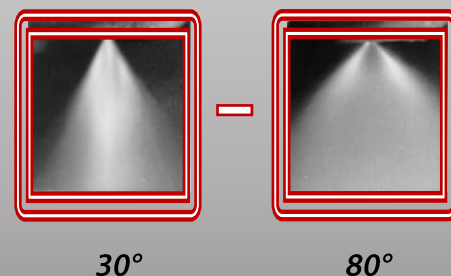
Measured with 50mm distance (at 25°C and 14 bar).

**We achieve
droplet sizes
down to 8 μm**
*depending on the
pressure and the water
quality.*



Spray angle and pressure are directly correlated.

We know the dependency by extensive measurements providing an angle range fitting your demands.



30°

80°

Lifetime...?



Corrosion resistance

Our **SnNi plating** survives > 240h in salt spray testing according to **DS/EN ISO 9227**

ASSISTANCE & SERVICE:

We help with choosing the optimal combination and specification to ensure the best outcome for your demands.

To take advantage of this service, please **contact your regional sales manager.**

OR

sent an E-mail to: **R159227@danfoss.com**

<https://store.danfoss.com/en/Climate-Solutions-for-heating/Burner-components/Water-nozzles/c/4003>

Putting what we know into action for you



Our range of water spray nozzles covers the needs of a very wide range of applications. And we back everything up with the solidity of Danfoss support.

In short, **we put a lot in, so you get the right drops out.**

Danfoss A/S

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