



# Hago Water Nozzles

## Anti-Drip Spray Nozzles Type 4023

## Description

Many nozzles are satisfactory for spraying liquids, but for a positive cut-off ask for the Hago type 4023 nozzle. Our exclusive design produces a precisely controlled flow rate and spray angle and includes a liquid cut-off near the orifice. Fluid cut-off near the orifice can be very important in situations where excessive after drip can damage or destroy things located beneath the nozzle. Chemicals, insecticides, and even plain water, if allowed to drip, can foul the environment or injure livestock, seedlings and industrial materials. With the type 4023 anti-drip nozzles, operators can achieve fluid cut-off near the orifice while maintaining pressure within the nozzle supply system. The type 4023 nozzle emits a finely atomized spray mist suitable for nearly all humidifying, light wetting and evaporative cooling application. This nozzle has become a nozzle of choice for the insect spray system industry.

## Features & Benefits

- Insect control
- Odor control chemicals
- Green houses
- Agriculture, farms, livestock, barns
- Environmentally hazardous chemicals
- Reduces undesirable nozzle after-drip
- Field proven performance for over 40 years
- Accurate, flow rate and spray angle
- Produces a finely atomized mist Availability

## Applications

- Green houses
- Agriculture: farms, livestock, barns

## Ordering


### Product code numbers


To find code numbers for ordering please consult the Danfoss Burner Components Service Manual. [The service manual](#) is intended to make it easy for you to find the most suitable components and service from the comprehensive Danfoss range.

Product group	Type	Spray angle [°]	Capacity [USgal/h]	Code number
Hago Water Nozzles	#4023	70	0.60	030L4507
Hago Water Nozzles	#4023	70	0.60	030L4508

## Identification

The nozzles are marked with the following information:

Danfoss		4023	HP	NTP	
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	Batch code
4023	Anti-drip spray nozzle
HP	High pressure
NTP	Nickel tin plated

## Accessories code numbers

If your product code is not listed as a related product for any accessories, please reach out to us for assistance.



030L4039

**"HAGO STD. ADAPTER  
1/8\" BRASS"**

"HAGO STD. ADAPTER 1/8\"  
BRASS"

Related products

030L4501

030L4502



030L4057

**"HAGO STD. ADAPTER  
1/4\" BRASS"**

"HAGO STD. ADAPTER 1/4\"  
BRASS"

Related products

030L4501

030L4502



030L4042

**NICKEL PLATED ADAPT.  
STD. 1/8"**

NICKEL PLATED ADAPT. STD.  
1/8"

Related products

030L4501

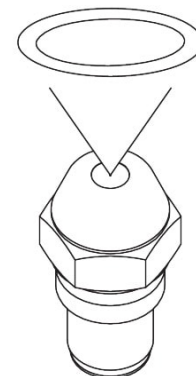
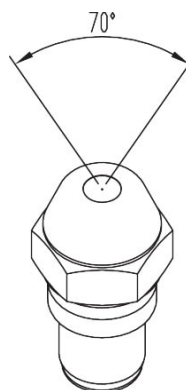
030L4502

If your product code is not listed as a related product for any accessories, please reach out to us for assistance.

## Functions

### Operation

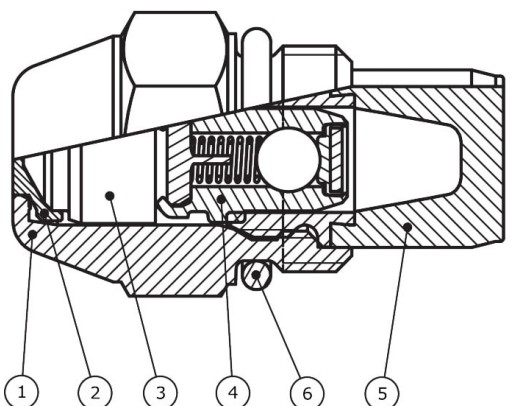
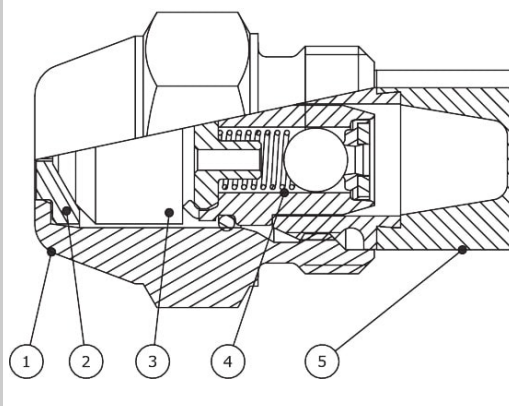
Spray angle and spray pattern



DANFOSS  
A30-391.10

Product details

Design

With O-ring	Without O-ring
 <p>DANFOSS A30-394.10</p>	 <p>DANFOSS A30-390.10</p>
<p>1: Nozzle housing</p> <p>2: Disc</p> <p>3: Cone</p> <p>4: Valve</p> <p>5: Sinter filter</p> <p>6: O-Ring (Ø10.82 x 1.78 mm)</p>	<p>1: Nozzle housing</p> <p>2: Disc</p> <p>3: Cone</p> <p>4: Valve</p> <p>5: Sinter filter</p>

O-ring options

- Option 1: 10 Piece Pack WITHOUT O-ring (P/N 030L4507)
- Option 2: 10 Piece Pack WITH O-ring (P/N 030L4508)

For option 2, O-ring will be pre-assembled on nozzle by Danfoss.

Materials

The nozzle housing and screw are tin/nickel plated brass. This coating is tight and extremely hart which gives a valuable corrosion resistance. Nickel silver is a trade name for a non-magnetic copper nickel alloy and used for the disc and cone. The material is very popular due to its corrosion resistance in water applications.

The part in the cutoff valve is made of stainless steel and the O-ring and valve seat are FKM.

Optional filter: Copper plated steel and sintered bronze rated @ 45 µm nominal filtration.

Capacity

Performance

Minimum recommended operation pressure is 160 psi (11 bar).

The nozzle is rated 0.6 gph water at 160 psi (11 bar), where it delivers a semi solid spray pattern.

Cut off valve

The cutoff valve has a closing pressure between 60-90 psi (~ 4 to 6 bar).

Flow rates

Flow rates with tap water

0.60 gph at 160 psi



Droplet sizes

Sauter mean diameter at various operating pressures. {microns (µm)}

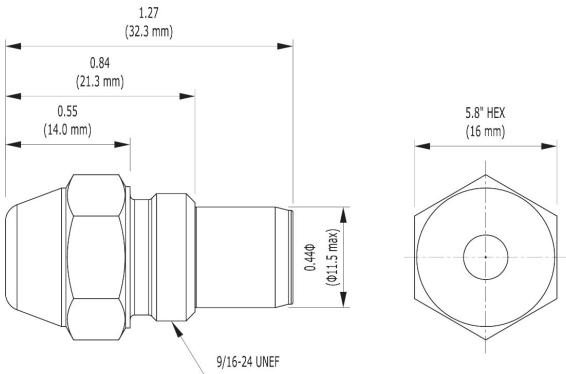
	145 psi	510 psi	725 psi	1015 psi
Sauter mean diameter	29	17	17	14

Availability

- Standard flow rate: 0.6 GPH @ 160 psi, water
- Spray angle: 70 degrees @ 160 psi, water
- Spray pattern: Semi solid cone

Dimensions & weights

Weight	Hago Water Nozzles	
	Gross weight	0.034 kg
	Net weight	0.032 kg



DANFOSS  
A30-392.10

Installation

Tightening torque

Recommended tightening torque	130 to 180 lbs-in
	(15 to 20 Nm)
Maximum tightening torque	180 lbs-in
	(20 Nm)

Accessories

Standard adapters:

- Brass 1/8" or 1/4"
- Nickel plated brass 1/8"

## Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
Manufacturer's Declaration	<a href="#">Danfoss MD 030L.00</a>	Danfoss	EU RoHS
Manufacturer's Declaration	<a href="#">Danfoss MD-UK 075-076 H2O.03</a>	Danfoss	EU RoHS
Export Control Declaration	<a href="#">Non Oil Nozzles</a>	Danfoss	

## Contact details

### Online support

Danfoss offers a wide range of support along with our products, including digital information, software, mobile apps and expert guidance. See the possibilities below.



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