

Data sheet

Anti-Drip Spray Nozzles Type 4023

General data sheet

For specific information on this product, please contact Danfoss A/S.

Application



The 4023 nozzle emits a finely atomized spray mist suitable for nearly all humidifying, light wetting and evaporative cooling application.

Application and features

- 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

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

Accessories

Standard adapters:

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

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.

Many nozzles are satisfactory for spraying liquids, but for a positive cutoff ask for the Danfoss type 4023 nozzle. Our exclusive design produces a precisely controlled flow rate and spray angle and includes a liquid cutoff near the orifice. This 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 4023 anti-drip nozzles, operators can achieve fluid cutoff near the orifice while maintaining pressure within the nozzle supply system.

Identification

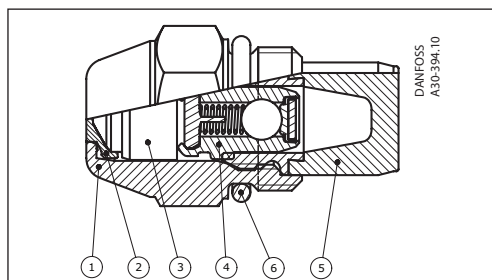
The nozzles are marked with the following information:

| | | | | | |
|---------|--|------|----|-----|--|
| Danfoss | | 4023 | HP | NTP | |
|---------|--|------|----|-----|--|

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

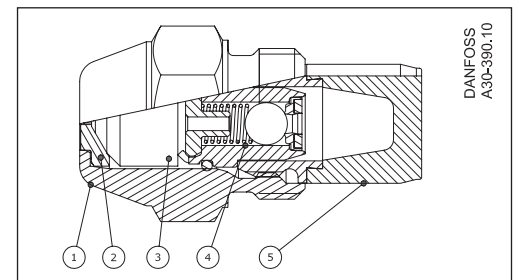
Design

With O-ring:



- 1: Nozzle housing
- 2: Disc
- 3: Cone
- 4: Valve
- 5: Sinter filter
- 5: O-Ring (Ø10.82 x 1.78 mm)

Without O-ring:

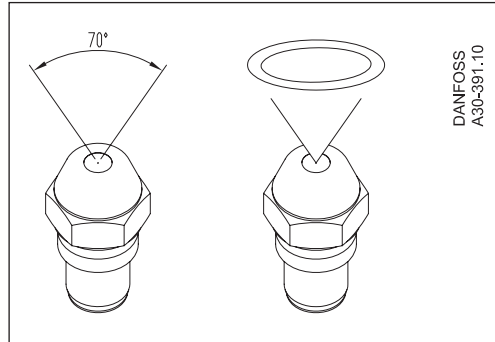


- 1: Nozzle housing
- 2: Disc
- 3: Cone
- 4: Valve
- 5: Sinter filter

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Anti-Drip Spray Nozzles Type 4023

Spray angle and spray pattern



Technical data

Material and construction

The nozzle housing and screw are tin/nickel plated brass. This coating is tight and extremely hard 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.

Tightening torque

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

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

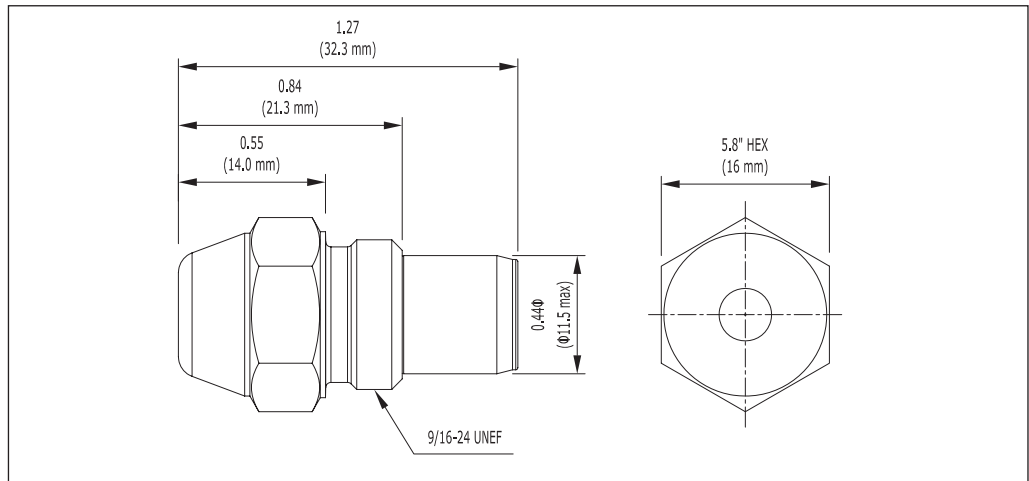
Flow rates with tap water
0.60 gph at 160 psi

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 |

Dimensions



Danfoss A/S

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