

Data sheet

ANTI-DRIP SPRAY NOZZLES Type HX-AD

General data sheet

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

Application



With the HX-AD anti-drip nozzles, operators can achieve fluid cut-off near the orifice while maintaining pressure within the nozzle supply system. The HX-AD nozzle emits a finely atomized spray mist suitable for nearly all humidifying, light wetting, and evaporative cooling application.

The finer and more uniform the water mist, the greater the potential for adhesion between water and the surrounding particles. With our technology we can achieve humidification and cooling without wetting.

Application and features

- Adiabatic cooling
- Humidification
- Disinfection
- Dust control
- Cleaning
- Green houses
- Field proven performance for over 40 years
- Accurate, flow rate and spray angle
- Produces a finely atomized mist

Availability

- Standard flow rate:
0.30 – 1.35 GPH (0,70-9,30 L/h)
- Spray angle: 80°
- Spray pattern: hollow or solid

Many nozzles are satisfactory for spraying liquids, but for a positive cut-off ask for the Danfoss Type HX-AD nozzle.

Our exclusive design produces a precisely controlled flow rate and spray angle and includes a liquid cut-off near the orifice. This can be very important in situations where excessive after drip can damage or destroy things located beneath the nozzle.

Chemicals, technical water, and even tap water, if allowed to drip, can foul the environment, or injure industrial materials.

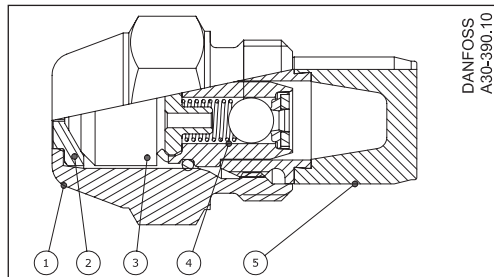
Identification

As an example nozzles are marked with the following.

Danfoss		HX-AD		0.50	80° H
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HX-AD	HX nozzle design with anti-drip valve
	Batch code
0.50	Flow rate (USgal/h)
80° H	Spray angle and spray pattern

Design

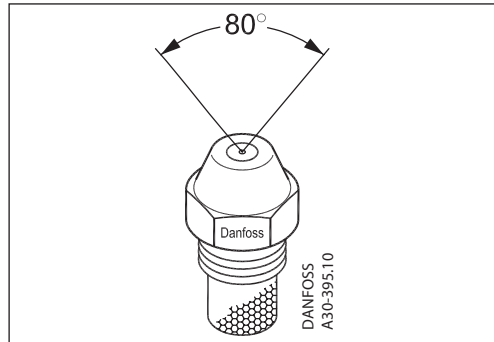


- 1: Nozzle housing
- 2: Disc
- 3: Cone
- 4: Anti-drip valve
- 5: HX screw

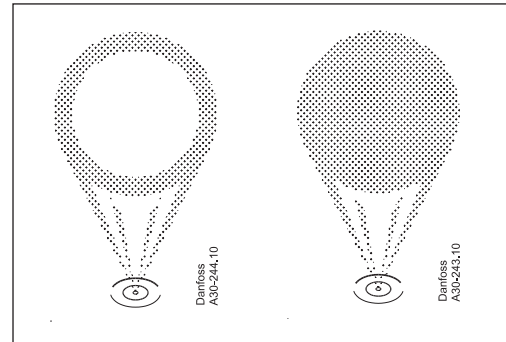
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Anti-drip spray nozzles type HX-AD

Spray angle and spray pattern



80° spray angle



Hollow spray

Solid spray

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 cut-off valve are made of stainless steel and the O-ring and valve seat are FKM.

Tightening torque

Recommended tightening torque	15 to 20 Nm
Maximum tightening torque	25 Nm

Performance

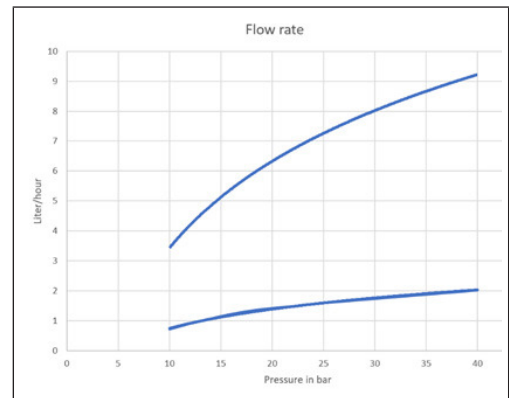
Minimum recommended operation pressure is 10 bar.
Maximum current operation pressure: 40 bar.
Future maximum operation pressure: 70 bar.

Cut-off valve

The cut-off valve has a closing pressure between 4 to 6 bar.

Flow rates

Standard flow rates are available in the region between the curves. Higher flow rates and pressure up to 70 bar will be available in future.

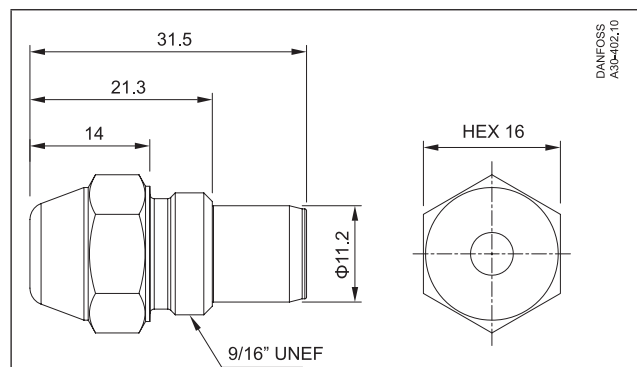


Further flow rates on request

Nozzle type HX-AD

Nozzles are available with 4 different spray angles going from 30° to 80°. 2 different spray patterns Solid or Hollow, though 30° only comes with Solid.

Dimensions



Danfoss A/S

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