

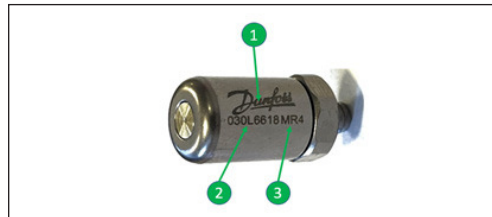
Data sheet

Slimline nozzles

General data sheet

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

Identification



As an example nozzles housing engraved with the following:

- 1 Danfoss
- 2 Finished Product Code (030L6618)
- 3 Batch Code (MR4)

Application

This type of nozzle has been widely used within the humidification industry for years. It is tailored for fine water atomization in applications like comfort humidity control, open space humidification, adiabatic cooling etc.

The nozzle generates billions of very small droplets, depending on pressure and water quality. With our technology we can achieve humidification and cooling without wetting.

Application

- Adiabatic cooling
- Humidification
- Disinfection
- Dust control
- Wood processing
- Green houses

Features

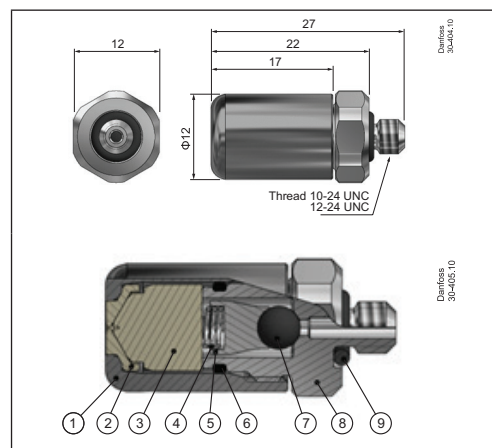
- Field proven performance for over 75 years
- Accurate, flow rate and spray angle
- Produces a finely atomized mist

Availability

- Standard flow rate: 1,3 – 17,2 L/h
- Spray angle: 30°, 45°, 60° and 80°
- Spray pattern: Hollow and solid
- Connection thread 10/24 & 12/24

Further specifications on request

Design



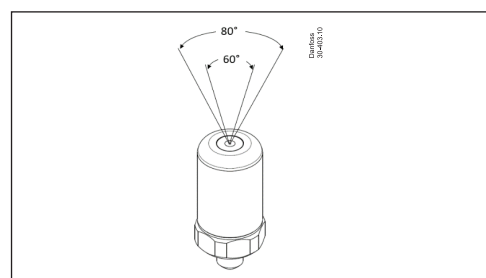
All nozzles come with a built-in valve as standard. With the slimline anti-drip nozzles, operators can achieve fluid cut-off near the orifice while maintaining pressure within the nozzle supply system.

Nozzles without valve on request.

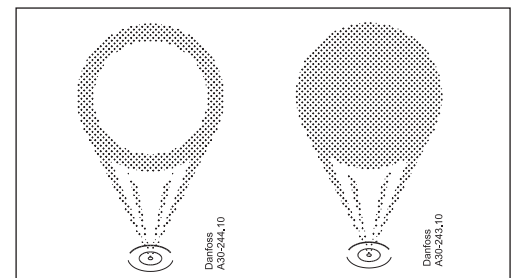
Components:

1. Housing
2. Orifice disc
3. Cone
4. Spring
5. Guide
6. O-ring Ø6,0
7. Rubber ball
8. Screw
9. O-ring Ø4,0

Spray angle and spray pattern



60° and 80° spray angle



Hollow spray

Solid spray

Data sheet

Slimline nozzles

Technical data

Material and construction

The nozzle housing and screw are tin/nickel plated brass. This coating is very robust and provides a highly 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 parts in the cut-off valve are made of stainless steel (AISI 303) and the O-ring and valve seat are FPM.

The nozzle has a long-life expectancy due to the Tin/Nickel (SnNi) coated design.

Lifetime of the nozzles are depending on the application, environment, pressure, temperature, and filtration (contamination) of the fluid.

Disc and cone are available in:

- AISI 303 (Stainless Steel)
- Nickel Silver (copper nickel alloy)

Spring is made of Stainless Steel AISI 303.
Material for ball and O-ring's is FPM.

Tightening torque

Recommended tightening torque	Tighten by hand
Maximum tightening torque	3 Nm

Performance

Minimum recommended operation pressure is 14 bar.

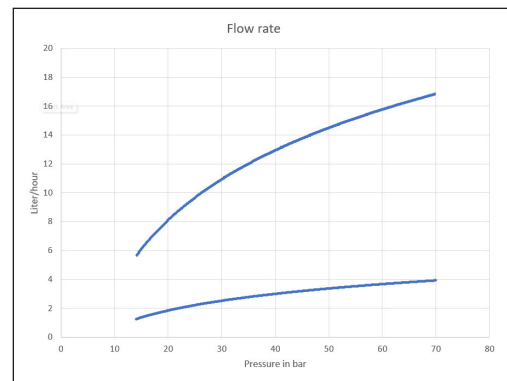
Maximum recommended operation pressure is 80 bar.

Cut off valve

The cut off valve has a closing pressure between 4,5 to 6 bar and opening pressure at 8 bar.

Flow rates

Standard flow rates are available in the region between the curves in the diagram below.



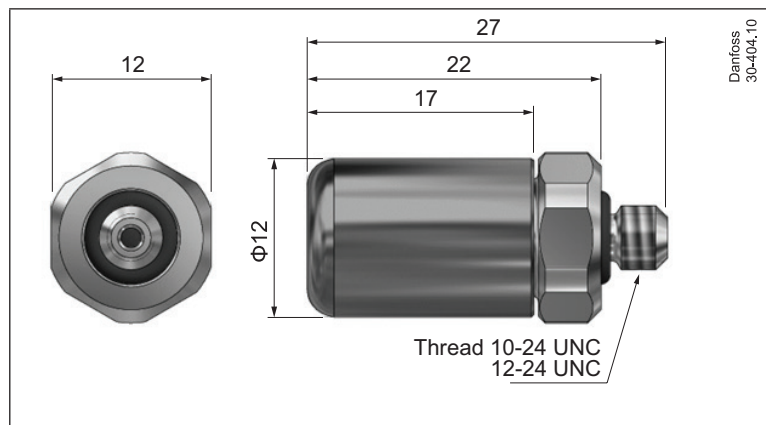
Further specifications on request

Nozzle types

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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