



Water nozzles

Slimline Nozzles - SL

Description

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.

Features & Benefits

- Field proven performance for over 75 years
- Accurate, flow rate and spray angle
- Produces a finely atomized mist
- 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 and M5
- Adiabatic cooling
- Humidification

Applications

- Humidification industry
- Comfort humidity control
- Open space humidification
- Adiabatic cooling etc.

Ordering

Product code numbers

Product group	Type	Spray angle [°]	Capacity [USgal/h]	Code number
Water nozzles	SL	60	0.30	030L6652
Water nozzles	SL	60	0.30	030L6552
Water nozzles	SL	60	0.40	030L6554
Water nozzles	SL	60	0.40	030L6654
Water nozzles	SL	60	0.45	030L6406
Water nozzles	SL	60	0.45	030L6556
Water nozzles	SL	60	0.45	030L6456
Water nozzles	SL	60	0.55	030L6660
Water nozzles	SL	60	0.55	030L6560
Water nozzles	SL	60	0.60	030L6562
Water nozzles	SL	60	0.65	030L6564
Water nozzles	SL	60	0.65	030L6664
Water nozzles	SL	60	0.85	030L6568
Water nozzles	SL	60	0.85	030L6668
Water nozzles	SL	60	1.10	030L6572
Water nozzles	SL	60	1.35	030L6676
Water nozzles	SL	60	1.35	030L6576
Water nozzles	SL	60	1.50	030L6578
Water nozzles	SL	80	3.29	030L6900

Identification

As an example nozzles housing engraved with the following:

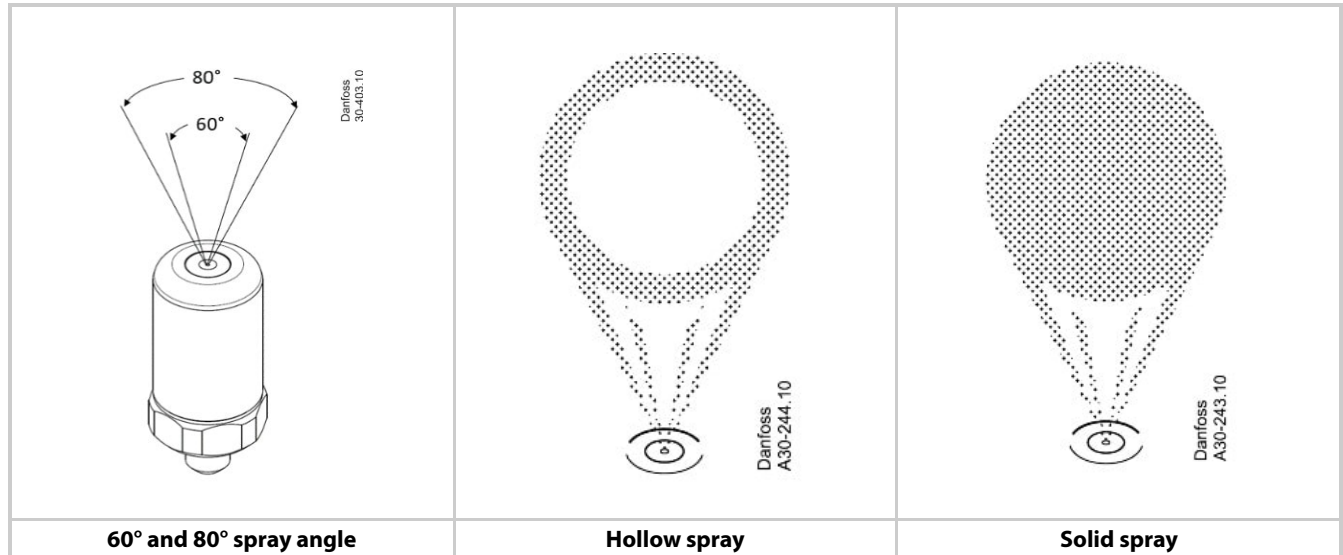
1. Danfoss
2. Finished Product Code (030L6618)
3. Batch Code (MR4)



Functions

Operation

Spray angle and spray pattern



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.

Product details

Design

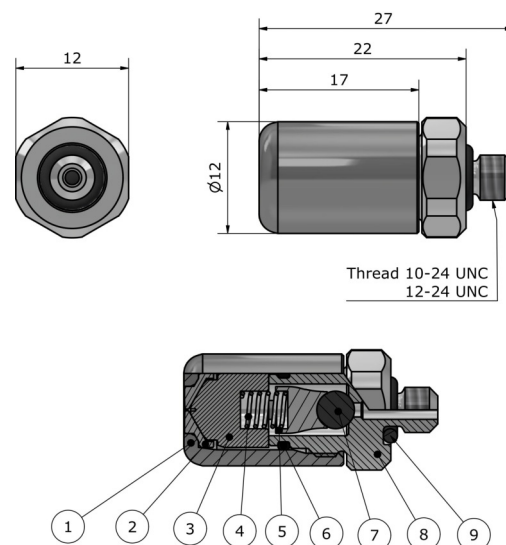
All nozzles come with a built-in valve as standard.

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



Materials

The nozzle housing and screw are tin/nickel plated brass. This coating is very robust and provides a highly valuable corrosion resistance.

Stainless Steel AISI 303 is 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)

Spring is made of Stainless Steel AISI 303.

Material for ball and O-ring's is FPM.

Capacity

Performance

Minimum recommended operation pressure is 14 bar.

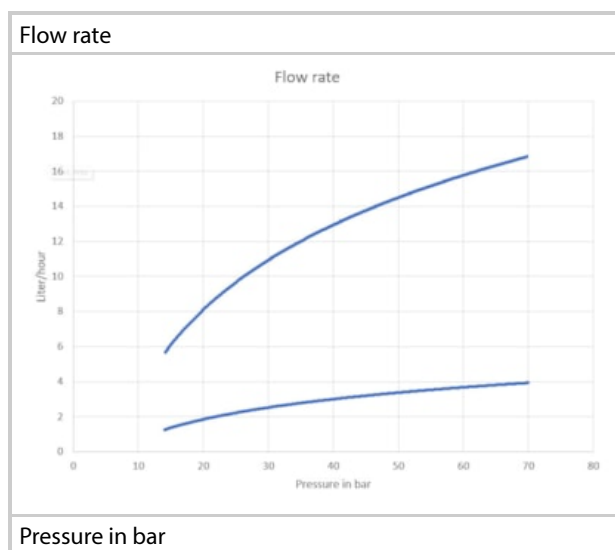
Maximum recommended operation pressure is 80 bar.

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.

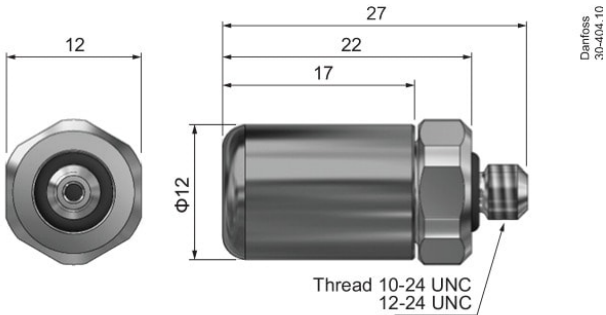


Further specifications on request



Dimensions & weights

Weight	Slimline nozzles	
	Gross weight	19 Gram
	Net weight	18.1 Gram
	Volume	0.023 Liter



Installation

Tightening torque

Recommended tightening torque	Tighten by hand
Maximum tightening torque	3 Nm

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	Danfoss MD 030L.00	Danfoss	EU RoHS
Export Control Declaration	Non Oil Nozzles	Danfoss	

Contact details

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