



Water nozzles

Nozzles HX

Description

Many nozzles are satisfactory for spraying liquids, but for a water spray ask for the Danfoss Type HX nozzle. Our exclusive design produces a precisely controlled flow rate and spray angle. The Type HX nozzles were originally designed to make extra fine atomization and precise control of flow rates wherever required. Minimum operating pressure is 5 bar, but increasingly finer droplets result from higher operating pressure. The HX nozzle emits a finely atomized spray mist suitable for nearly all humidifying, light wetting, and evaporative cooling application. With our technology we can achieve humidification and cooling without wetting. Suitable for use with tap or technical water (VE / Di – water).

Features & benefits

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

Applications

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



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 [l/h]	Code number
Water nozzles	HX	80	1.12	030L5303
Water nozzles	HX	80	1.12	030L5643
Water nozzles	HX	60	1.12	030L5623
Water nozzles	HX	80	1.27	030L5144
Water nozzles	HX	80	1.46	030L5645
Water nozzles	HX	80	1.46	030L5145
Water nozzles	HX	80	1.83	030L5147
Water nozzles	HX	60	1.83	030L5627
Water nozzles	HX	80	2.14	030L5148
Water nozzles	HX	80	2.34	030L5149
Water nozzles	HX	80	2.34	030L5649
Water nozzles	HX	60	2.78	030L5291
Water nozzles	HX	60	2.78	030L5631
Water nozzles	HX	60	2.87	030L5630
Water nozzles	HX	80	2.87	030L5650
Water nozzles	HX	80	2.87	030L5150
Water nozzles	HX	80	3.34	030L5153
Water nozzles	HX	60	3.34	030L5633
Water nozzles	HX	80	3.34	030L5653
Water nozzles	HX	60	3.34	030L5293
Water nozzles	HX	80	3.56	030L5152
Water nozzles	HX	80	4.21	030L5154
Water nozzles	HX	60	4.96	030L5295
Water nozzles	HX	60	4.96	030L5635
Water nozzles	HX	80	5.35	030L5656
Water nozzles	HX	80	5.95	030L5657
Water nozzles	HX	60	5.95	030L5637
Water nozzles	HX	80	6.95	030L5659
Water nozzles	HX	80	12.27	030L5400
Water nozzles	HX	60	16.87	030L5640
Water nozzles	HX	60	39.20	030L5821

Identification

The nozzles are marked with the following information:

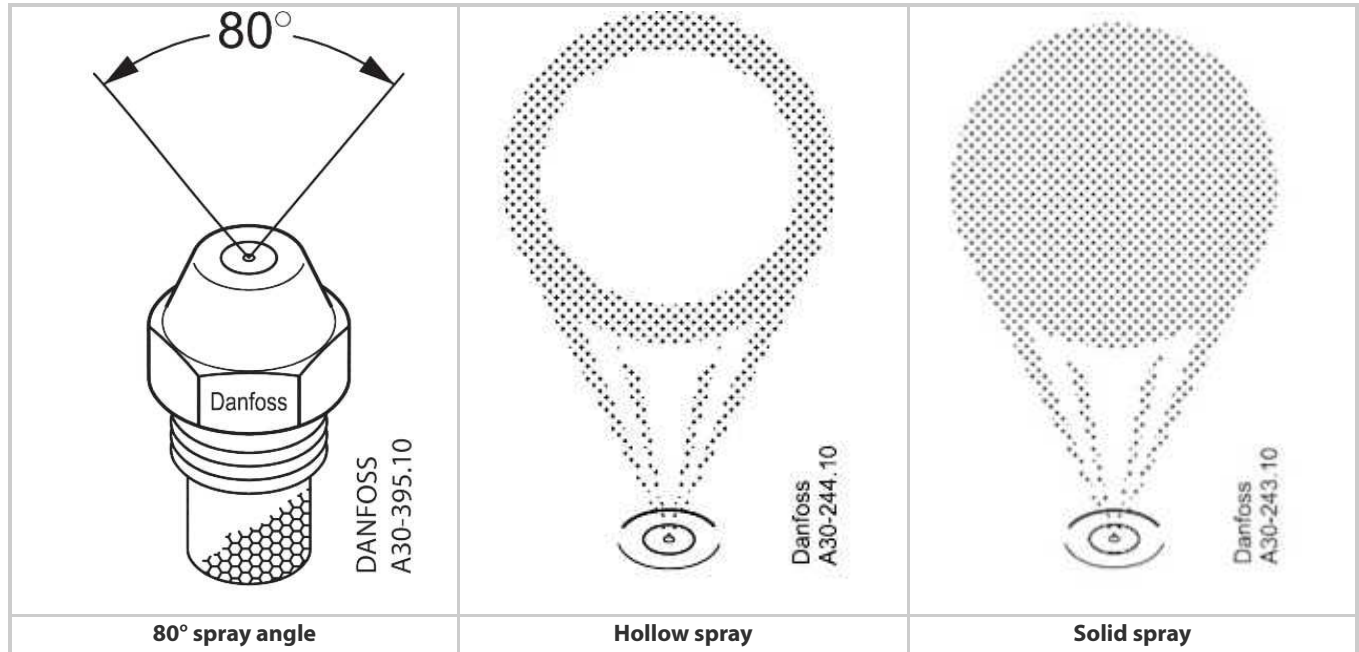
Danfoss			0.50	80° H
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HX	HX nozzle
	Batch code
0.50	Flow rate (USgal/h)
80° H	Spray angle and spray pattern

Functions

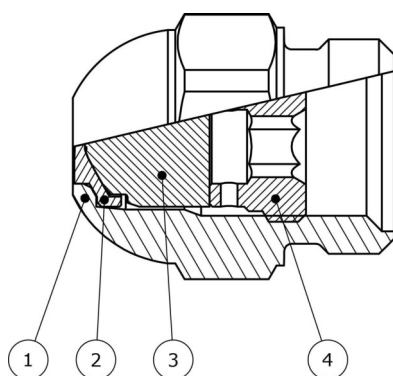
Operation

Spray angle and spray pattern



Product details

Design



- 1: Round shaped HX housing
- 2: Disc
- 3: Cone
- 4: Bottom screw

- Standard flow rate: 0,70 - 115 L/h
- Spray angle: 60°, 80° (30° and 45° on request)
- Spray pattern: hollow or solid
- Optional bronze filter

Materials

The nozzle housing is 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.

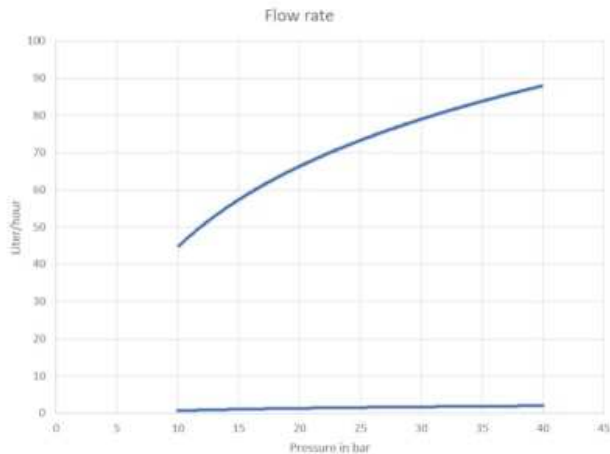
Capacity

Performance

Minimum recommended operation pressure is 5 bar.
Maximum operation pressure: 80 bar.

Flow rates

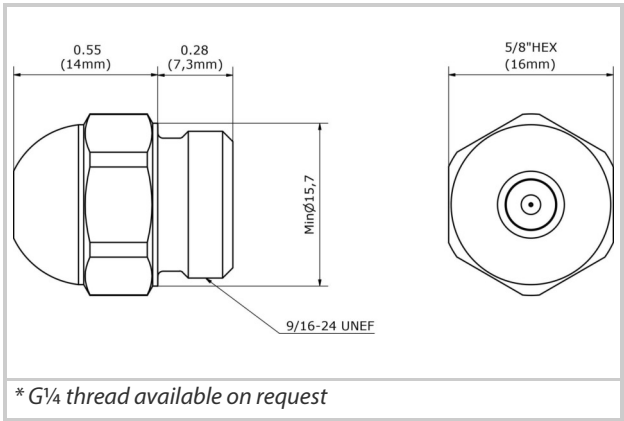
Standard flow rates are available in the region between the curves in the diagram below.



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

Weight	Nozzles type HX	
	Gross weight	0.033 kg
	Net weight	0.032 kg
	Volume	0.023 Liter



Installation

Tightening torque

Recommended tightening torque	15 to 20 Nm
Maximum tightening torque	25 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
Export Control Declaration	Non Oil Nozzles	Danfoss	
Manufacturer's Declaration	Danfoss MD 030L.00	Danfoss	UK RoHS

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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