

Data Sheet

Oil Nozzles Type H, S-S, ES, P and B

Application

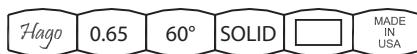
Danfoss Hago oil nozzles are designed for domestic and commercial high pressure oil burners operating with light or heavy fuel. An optimal combustion process is only achieved by a perfect match between nozzle capacity and spray pattern, air supply and air distribution and the design of combustion chamber.

Danfoss Hago offers a very broad range of nozzles with different capacity and spray patterns – which means that it is possible to cover all demands in the market.

Features: Light and heavy fuel.

Identification

The nozzles are marked with the following information (example):



Stamped on the flats:

0.65	GPH at 100 psi, (~ 7 bar) 35 SSU (2.7 cSt)
60°	Spray angle
SOLID	SOLID for "Solid" spray pattern
[empty box]	Batch code

Technical Data

Material and construction

Nozzle tip and disc AISI 416 grade stainless steel filters size dependent

Program

For sizes available please refer to nozzle matrix in product overview, Oil Burner Nozzles Series - Steel.

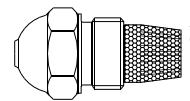
Recommended tightening torque

- 200-310 in-lbs (25-35 Nm) for steel and nickel plated adapters
- 130-180 in-lbs (15-20 Nm) for brass nozzle adapters

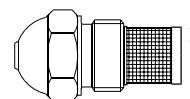
Maximum tightening torque

- 310 in-lbs (35 Nm) for steel and nickel plated adapters
- 220 in-lbs (25 Nm) for brass nozzle adapters

Filters

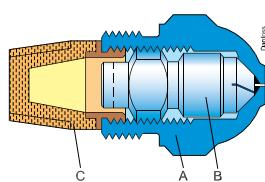


Capacity 0.40 – 1.35 GPH
30-40 µm sintered bronze filter

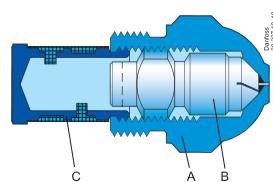


Capacity from 1.50 GPH
120 mesh stainless steel strainer

Design



A: Tip.
B: Disc.
C: Sintered filter.



A: Tip.
B: Disc.
C: Strainer.

Available spray patterns:
H: Hollow Cone (red caps)

Hollow spray pattern with higher volume concentration in the periphery of the spray. Well suited for low firing rates and burners with hollow air pattern.

S-S: Semi Solid Cone (blue caps)

Semi solid spray pattern which is the optimal choice for applications where exact air pattern or spray pattern requirements can't be established.

ES: Solid Cone (green caps)

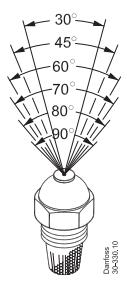
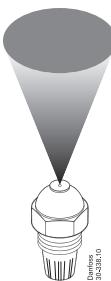
The original solid cone series for low flow rates.

P: Solid Cone (green caps)

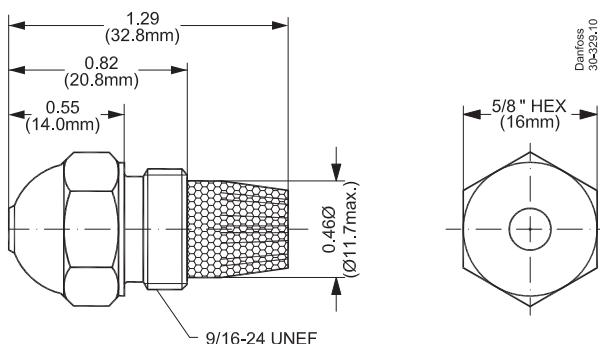
The P-series is an extension of the B and ES series for higher flow rates. The series is recommended to reduce combustion noise and pulsations.

B: Solid Cone (black caps)

Even distributed spray pattern – well suited for burners with even distributed air pattern. Well suited for high static pressure flame retention burners.

Spray angles

Schematic spray patterns

Dimensions

Dimensions for reference only.



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