

## Data Sheet

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

### Application

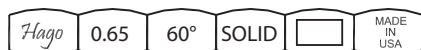
Danfoss Hago oil nozzles are designed for domestic and commercial high pressure oil burners operating with light or heavy fuel. An optimal combustion process is only achieved by a perfect match between nozzle capacity and spray pattern, air supply and air distribution and the design of combustion chamber.

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:

<b>0.65</b>	GPH at 100 psi, (~ 7 bar) 35 SSU (2.7 cSt)
<b>60°</b>	Spray angle
<b>SOLID</b>	SOLID for "Solid" spray pattern
	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.

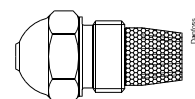
#### Recommended tightening torque

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

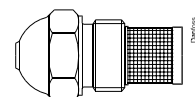
#### Maximum tightening torque

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

### Filters

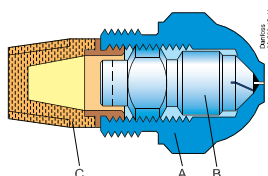


Capacity 0.40 – 1.35 GPH  
30-40 µm sintered bronze filter

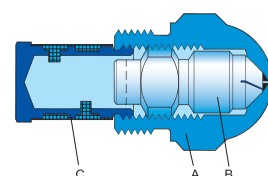


Capacity from 1.50 GPH  
120 mesh stainless steel strainer

### 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.

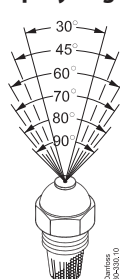
**P: Solid Cone (green caps)**

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**



H series



S-S series



ES series



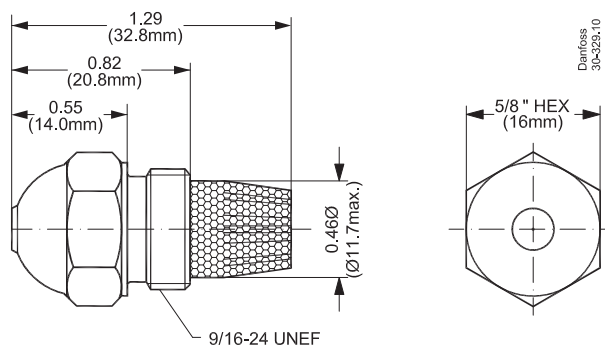
P series



B series

**Dimensions**

Dimensions for reference only.



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