ENGINEERING
TOMORROW

Data sheet

Oil Nozzles Type H, S-S 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):

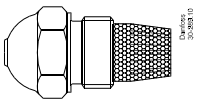
Stamped on the flats	
0.65	GPH at 100 psi, (~ 7 bar) 35 SSU (2.7 cSt)
60°B	Spray angle and pattern: B Solid, S-S Semi Solid and H Hollow
SOLID	SOLID for "Solid" spray pattern. Only on B nozzles
12345	Batch code

Technical Data

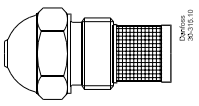
Material and construction
Nozzle tip and disc AISI 416 grade stainless steel filters size dependent

Recommended and maximum tightening torque
Recommended 200-310 in-lbs (25-30 Nm) and max. 310 in-lbs (35 Nm).for steel and nickel plated adapters.
Recommended 130-180 in-lbs (15-20 Nm) and max. 220 in-lbs (25 Nm).for brass adapters.

Filters



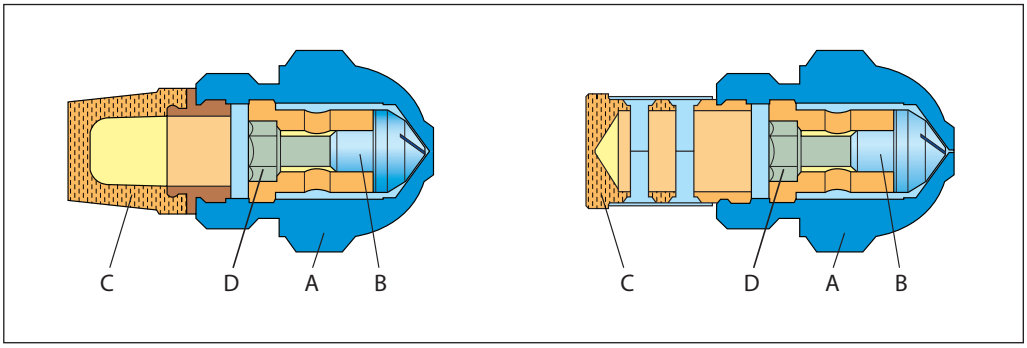
Capacity 0.40 – 1.35 GPH
30-40 µm sintered bronze filter



Capacity from 1.50 GPH
120 mesh stainless steel strainer

Design and dimensions

A: Tip
B: Disc
C: Bronze filter or strainer
D: Locknut

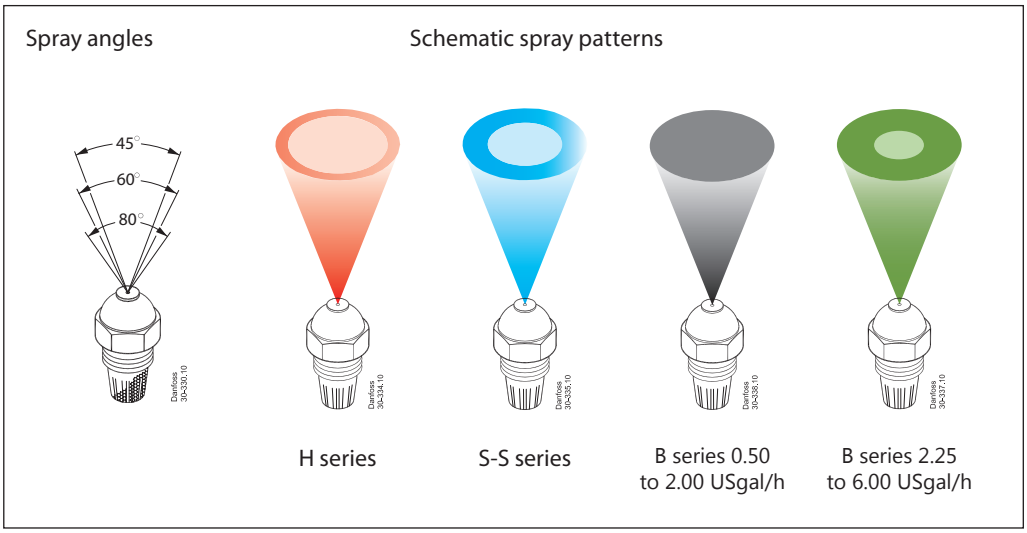


Available spray patterns:

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.

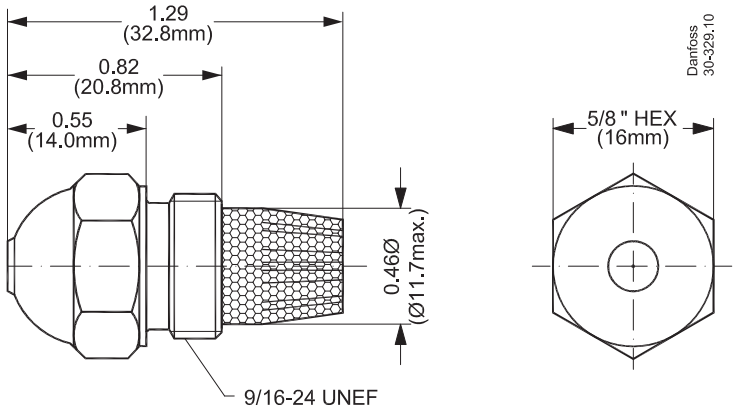
S-S: Semi Solid Cone (blue caps)
Semi solid spray pattern which is the optimal choice for applications where exact air pattern or spray pattern requirements can't be established.

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.



Design and dimensions
(continuous)

Dimensions for reference only.



Program

Reference capacity (Usgal/h)	Hollow			Semi Solid			Solid		
	45°	60°	80°	45°	60°	80°	45°	60°	80°
0.50	-	-	-	-	-	-	-	**030G6408**	**030G6508**
0.60	-	-	-	-	-	-	**030G6312**	**030G6412**	**030G6512**
0.65	**030G6014**	**030G6114**	**030G6214**	**030G6614**	**030G6714**	**030G6814**	**030G6314**	**030G6414**	**030G6514**
0.70	**030G6015**	**030G6115**	**030G6215**	-	-	-	-	-	-
0.75	**030G6016**	**030G6116**	**030G6216**	**030G6616**	**030G6716**	**030G6816**	**030G6316**	**030G6416**	**030G6516**
0.85	**030G6018**	**030G6118**	**030G6218**	**030G6618**	**030G6718**	**030G6818**	**030G6318**	**030G6418**	**030G6518**
0.90	-	-	-	-	-	-	**030G6319**	**030G6419**	**030G6519**
1.00	**030G6020**	**030G6120**	**030G6220**	**030G6620**	**030G6720**	**030G6820**	**030G6320**	**030G6420**	**030G6520**
1.10	**030G6022**	**030G6122**	**030G6222**	**030G6622**	**030G6722**	**030G6822**	**030G6322**	**030G6422**	**030G6522**
1.20	-	-	-	**030G6623**	**030G6723**	**030G6823**	-	-	-
1.25	**030G6024**	**030G6124**	**030G6224**	**030G6624**	**030G6724**	**030G6824**	**030G6324**	**030G6424**	**030G6524**
1.35	-	-	-	-	-	-	**030G6326**	**030G6426**	**030G6526**
1.50	**030G6028**	**030G6128**	**030G6228**	**030G6628**	**030G6728**	**030G6828**	**030G6328**	**030G6428**	**030G6528**
1.65	**030G6029**	**030G6129**	**030G6229**	-	**030G6729**	**030G6829**	-	-	-
1.75	**030G6030**	**030G6130**	**030G6230**	**030G6630**	**030G6730**	**030G6830**	**030G6330**	**030G6430**	**030G6530**
2.00	**030G6032**	**030G6132**	**030G6232**	**030G6632**	**030G6732**	**030G6832**	**030G6332**	**030G6432**	**030G6532**
2.25	**030G6034**	**030G6134**	**030G6234**	**030G6634**	**030G6734**	**030G6834**	**030G6334**	**030G6434**	**030G6534**
2.50	**030G6036**	**030G6136**	**030G6236**	**030G6636**	**030G6736**	**030G6836**	**030G6336**	**030G6436**	**030G6536**
2.75	-	-	-	**030G6638**	**030G6738**	**030G6838**	**030G6338**	**030G6438**	**030G6538**
3.00	**030G6040**	**030G6140**	**030G6240**	**030G6640**	**030G6740**	**030G6840**	**030G6340**	**030G6440**	**030G6540**
3.25	-	-	-	**030G6641**	**030G6741**	**030G6841**	**030G6341**	**030G6441**	**030G6541**
3.50	**030G6042**	**030G6142**	**030G6242**	**030G6642**	**030G6742**	**030G6842**	**030G6342**	**030G6442**	**030G6542**
3.75	-	-	**030G6243**	-	-	-	**030G6343**	**030G6443**	**030G6543**
4.00	**030G6044**	**030G6144**	**030G6244**	**030G6644**	**030G6744**	**030G6844**	**030G6344**	**030G6444**	**030G6544**
4.50	**030G6046**	**030G6146**	**030G6246**	**030G6646**	**030G6746**	**030G6846**	**030G6346**	**030G6446**	**030G6546**
5.00	**030G6048**	**030G6148**	**030G6248**	**030G6648**	**030G6748**	**030G6848**	**030G6348**	**030G6448**	**030G6548**
5.50	**030G6050**	**030G6150**	**030G6250**	**030G6650**	**030G6750**	**030G6850**	**030G6350**	**030G6450**	**030G6550**
6.00	**030G6052**	**030G6152**	**030G6252**	**030G6652**	**030G6752**	**030G6852**	**030G6352**	**030G6452**	**030G6552**
6.50	-	-	-	**030G6653**	**030G6753**	-	-	-	-
7.00	-	-	-	**030G6654**	**030G6754**	**030G6854**	-	-	-
7.50	-	-	-	**030G6655**	**030G6755**	-	-	-	-
8.00	-	-	-	**030G6656**	**030G6756**	**030G6856**	-	-	-
8.50	-	-	-	**030G6657**	**030G6757**	-	-	-	-
9.00	-	-	-	**030G6658**	**030G6758**	**030G6858**	-	-	-
10.0	-	-	-	**030G6660**	**030G6760**	**030G6860**	-	-	-
11.0	-	-	-	**030G6662**	**030G6762**	**030G6862**	-	-	-
12.0	-	-	-	**030G6664**	**030G6764**	**030G6864**	-	-	-

Danfoss A/S
Heating Segment • heating.danfoss.com • +45 7488 2222 • E-Mail: heating@danfoss.com