

Data sheet

Oil Nozzles Type H, S-S and B

Application



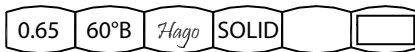
Danfoss Hago oil nozzles are designed for domestic and commercial high pressure oil burners operating with light or heavy fuel. An optimal combustion process is only achieved by a perfect match between nozzle capacity and spray pattern, air supply and air distribution and the design of combustion chamber.

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 | Reference capacity (USgal/h) |
| 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 |
| | Batch code for internal use |
| Reference specification point* | GPH at 100 psi, (~ 7 bar) 35 SSU (2.7 cSt) |

* Test specification point equivalent: 1000 kPa (10 bar), 3.4 cSt., 840 kg/m³

Technical Data

Material and construction

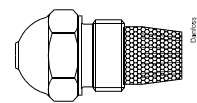
Nozzle tip and disc AISI 416 grade stainless steel
filters size dependent

Recommended and maximum tightening torque

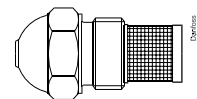
Recommended 200-310 in-lbs (25-30 Nm) and max. 310 in-lbs (35 Nm) for steel and nickel plated adapters.

Recommended 130-180 in-lbs (15-20 Nm) and max. 220 in-lbs (25 Nm) for brass adapters.

Filters



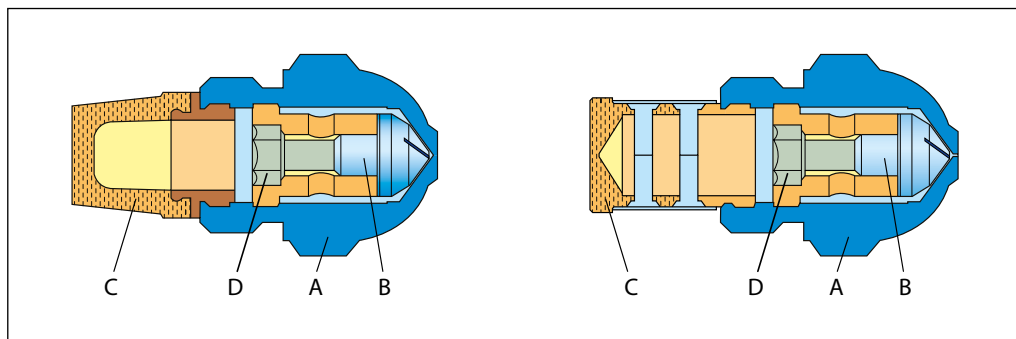
Capacity 0.40 – 1.35 GPH
30-40 µm sintered bronze filter



Capacity from 1.50 GPH
120 mesh stainless steel strainer

Design

- 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.

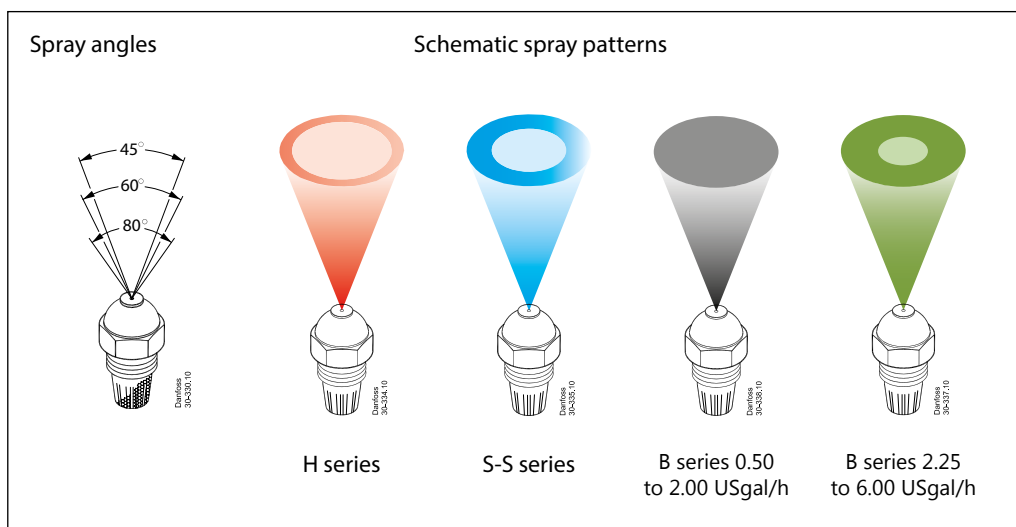
S-S: Semi Solid Cone (blue caps)

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

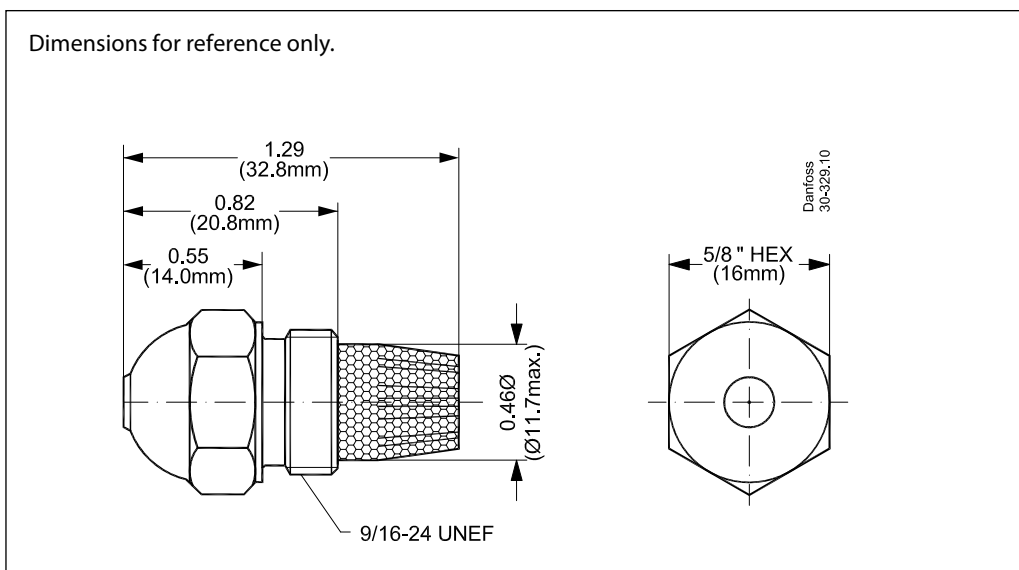
B: Solid Cone (black caps)

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

Note: B series 2.25 to 6.00 USgal/h is manufactured to match the performance of the original P Nozzles 2.25 to 6.00 USgal/h (former green caps).



Dimensions



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 | - | - | - |



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