

Data sheet

Oil Nozzles Type OD

Application

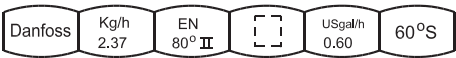
Oil nozzles type OD are designed for domestic and commercial high-pressure oil burners operating with light or heavy fuel. They are available with 4 different spray angles, 3 spray patterns and sizes from 0.20 to 35.0 USgal/h. As to construction and atomizing, the OD nozzle is the basic model for all Danfoss oil nozzles.

Features:

- Light and heavy oil
- EN nozzles from 1.46 to 6.55 kg/h
- Standard nozzles from 0.20 to 35 USgal/h
- 100% test of capacity and performance in accordance with EN

Identification

The EN nozzles 1.46 to 6.55 kg/h are marked with this information.
Other nozzles are without EN marking.

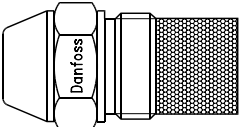
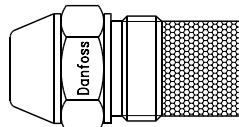
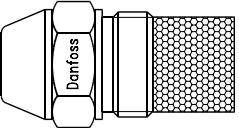
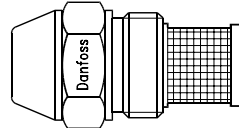
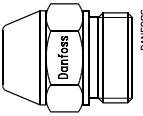


Danfoss
A30-166.11

Stamped on the flats:

2.37	EN specified capacity (kg/h)
EN 80° II	Spray angle & Angle index (according to EN 293/EN 299)
EN specification point	1000 kPa (10 bar), 3.4 cSt., 840 kg/m ³ Capacity tolerance: ± 4%
	Serial number for internal use
0.60	Reference capacity (USgal/h)
60° S	Spray angle & pattern (H = Hollow, S = Solid, B = Semi-solid)
Reference specification point	700 kPa (7 bar), 3.4 cSt., 820 kg/m ³

Filters

 DANFOSS A30-257.10	 DANFOSS A30-161.10
Capacity 0.20 to 0.35 USgal/h: 30 µm sintered bronze	Capacity 0.40 to 0.85 USgal/h: 45 µm sintered bronze
 DANFOSS A30-168.10	 DANFOSS A30-158.10
Capacity 1.00 to 1.75 USgal/h: 75 µm sintered bronze	Capacity 2.00 to 11.0 USgal/h: 140 µm mesh filter
 DANFOSS A30-153.11	
Capacity 12.00 to 35.0 USgal/h: without filter	

Recommended tightening torque: 15 to 20 Nm (1.5 to 2.0 kpm).
Max. tightening torque: 25 Nm (2.5 kpm).

Technical data

Reference capacity USgal/h	Spray angles/patterns				Specified capacity kg/h
	30°	45°	60°	80°	
0.20 ¹			S		0.76
0.25 ¹			S		0.95
0.30 ¹			H S	H S	1.15
0.35 ¹			H S	H S	1.35
0.40		S	H S	H S	1.46
0.45		S	H S	H S	1.66
0.50	S	H S	H S	H S	1.87
0.55		H S	H S	H S	2.11
0.60	S	H S	H S B	H S B	2.37
0.65		H S B	H S B	H S B	2.67
0.75	S	H S B	H S B	H S B	2.84
0.85	S	H S	H S B	H S B	3.31
1.00	S	H S B	H S B	H S B	3.72
1.10		H S	H S	H S	4.24
1.20		H S	H S	H S	4.45
1.25	S	H S B	H S B	H S B	4.71
1.35		H S	H S B	H S	5.17
1.50	S	H S B	H S B	H S B	5.84
1.65		H S	H S	H S	6.08
1.75	S	H S	H S	H S	6.55
2.00	S	H S B	H S B	H S B	7.42
2.25	S	H S B	H S B	H S	8.35
2.50	S	H S B	H S B	H S B	9.29
2.75	S	H S B	H S B	H S	10.5
3.00	S	H S B	H S B	H S B	11.6
3.50		S	S	S	12.9
3.75		B	B		13.8
4.00		S	S	S	14.2
4.50		S B	S B	S B	16.1
5.00		S B	S B	S B	18.5
5.50		S B	S B	S B	20.9
6.00		S B	S B	S B	23.4
6.50		B	B		26.1
7.00			S		27.9
7.50		B	B	B	29.8
8.00			S		31.5
8.50		B	B	B	33.1
9.00			S		35.4
10.00		B	B	B	37.7
11.00		B	B	B	42.5
12.00		B	B	B	47.7
13.50		B	B		54.3
15.00		B	B	B	60.4
17.00			B		67.4
19.50			B	B	76.2
22.00		B	B		86.4
25.00			B		96.7
28.00			B		109.5
31.50		B	B	B	122.5
35.00		B			133.5

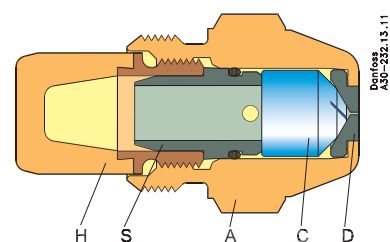
EN nozzles

¹Capacity tolerances: ±6%

Design

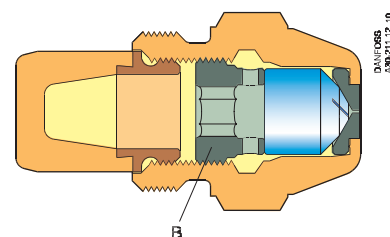
Sizes 0.20-0.60 USgal/h with O-ring sealing

- A. Nozzle housing
- C. Nozzle cone
- D. Orifice disc
- H. Filter
- S. O-ring holder

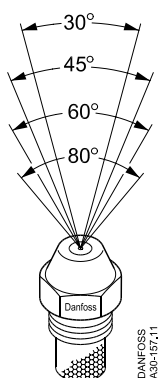


Sizes 0.65-35.00 USgal/h with bottom screw

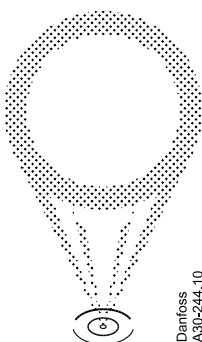
- B. Bottom screw



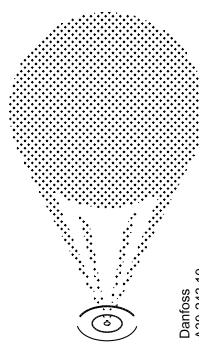
Spray angles



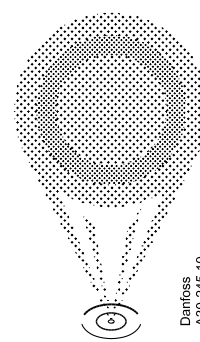
Spray patterns



H (Hollow)

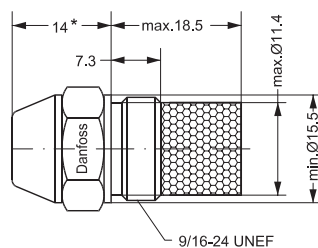


S (Solid)

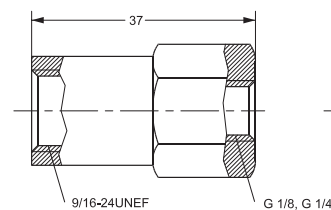
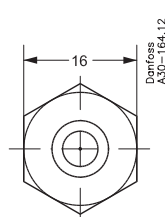


B (Semi-solid)

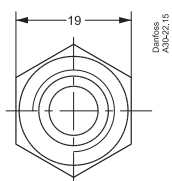
Dimensions



*EN standard



Nozzle holder





Additional documentation on burner components is available on <http://heating.danfoss.com/> or <https://store.danfoss.com/>

Danfoss A/S

Climate Solutions • danfoss.com • +45 7488 2222

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product.

All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.