

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

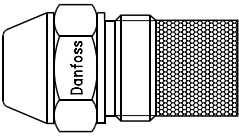
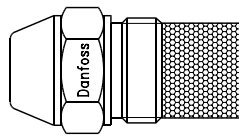
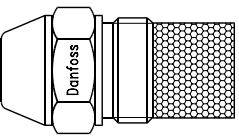
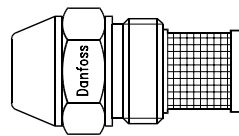
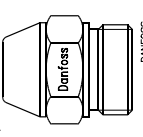
The EN nozzles 1.46 to 6.55 kg/h are marked with this information.
Other nozzles are without EN marking.



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 monel mesh
 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	S	H S	H S	H S	2.11
0.60	S	H S	H S B	H S B	2.37
0.65	S	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 B	H S B	H S B	3.31
1.00	S	H S B	H S B	H S B	3.72
1.10	S	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	S	H S B	H S B	H S B	5.17
1.50	S	H S B	H S B	H S B	5.84
1.65	S	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 B	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 B	10.5
3.00	S	H S B	H S B	H S B	11.6
3.50	S	S	S	S	12.9
3.75		B	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	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	B	54.3
15.00		B	B	B	60.4
17.00			B	B	67.4
19.50			B	B	76.2
22.00		B	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

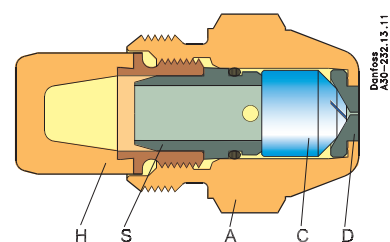
EN nozzles

¹Capacity tolerances: ±6%

Design

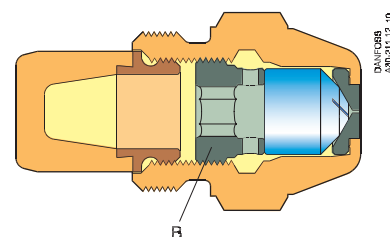
Sizes 0.20-0.60 USgal/h with O-ring sealing

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

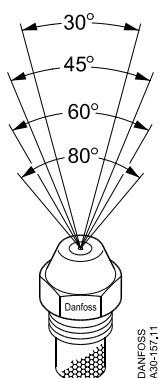


Sizes 0.65-35.00 USgal/h with bottom screw

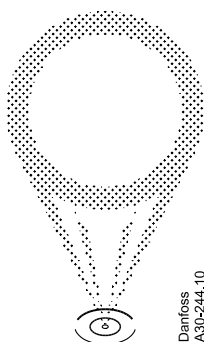
- B. Bottom screw



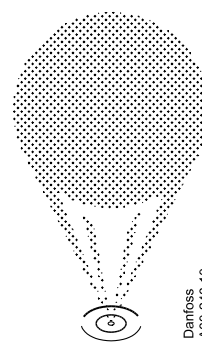
Spray angles



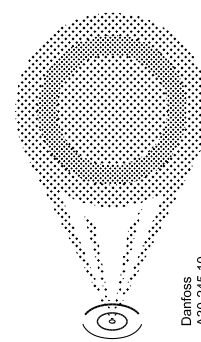
Spray patterns



HR (Hollow)

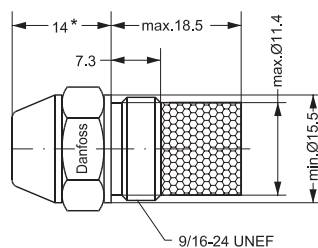


S (Solid)

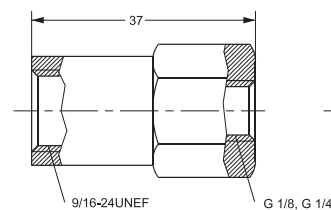
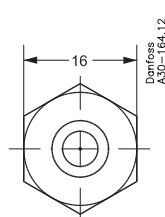


B (Semi-solid)

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

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