

Oil Nozzles Type OD



General Data Sheet

For specific information on this product, please contact Danfoss Burner Components

Identification

The EN nozzles 1.46 to 6.55 kg/h are marked with the following informations. Other nozzles are without EN-marking.



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

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 0.3 to 35.0 USgal/h.

As to construction and atomizing, the OD nozzle is the basic model for all Danfoss oil nozzles.

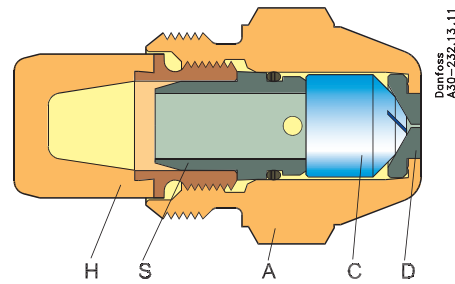
Application and Features

- Light and heavy oil
- EN nozzles from 1.46 to 6.55 kg/h
- Standard nozzles from 0.30 to 35 USgal/h
- 100% test of capacity and performance in accordance with EN

Design

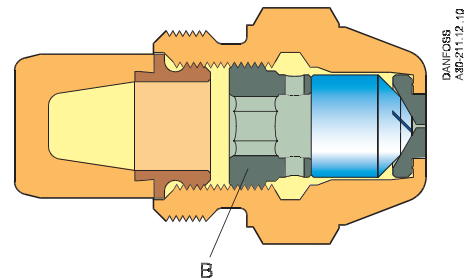
Sizes 0.30-0.60 USgal/h with O-ring sealing

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

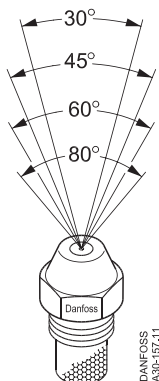


Sizes 0.65-35.00 USgal/h with bottom screw

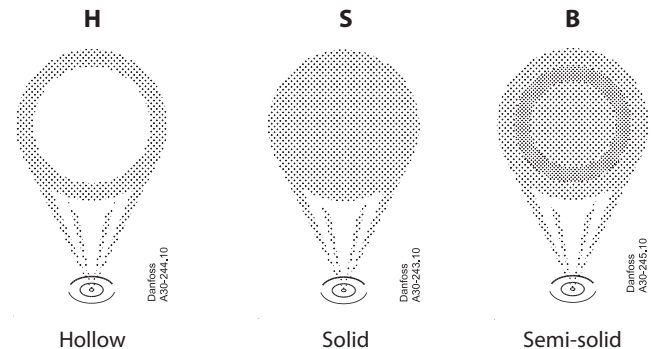
- B Bottom screw



Spray angles

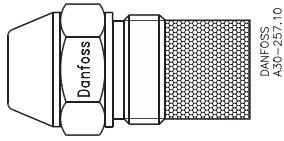


Spray patterns

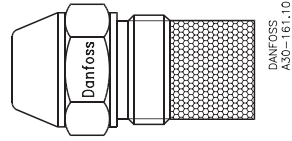


Technical Data

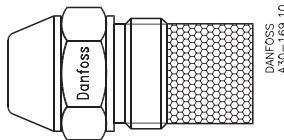
Filters



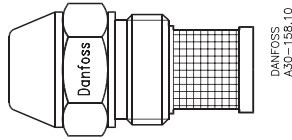
Capacity 0.30-0.35 USgal/h:
30 µm sintered bronze



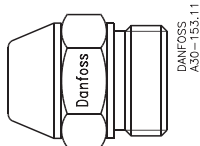
Capacity 0.40-0.85 USgal/h:
45 µm sintered bronze



Capacity 1.00-1.75 USgal/h:
75 µm sintered bronze



Capacity 2.00-11.0 USgal/h:
140 µm monel mesh



Capacity 12.0-35.0 USgal/h:
without filter

Tightening torques

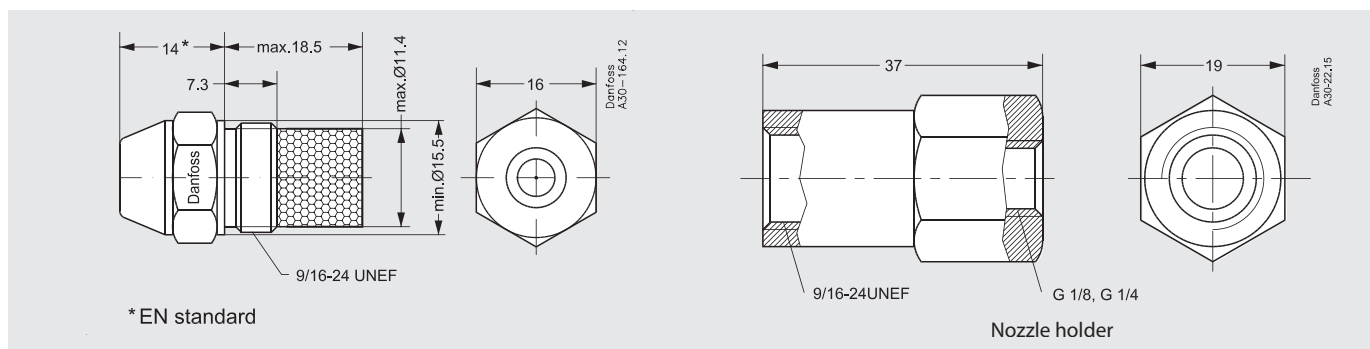
Recommended tightening torque	15 to 20 Nm (1.5 to 2.0 kpm)
Max. tightening torque	25 Nm (2.5 kpm)

Oil Nozzles Type OD

■ EN nozzles

Reference capacity USgal/h	Spray angles /patterns				Specified capacity kg/h
	30°	45°	60°	80°	
0.30			H S	H S	1.15
0.35			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	H S	H S	H S	H S	1.87
0.55	H S	H S	H S	H S	2.11
0.60	H S	H S	H S B	H S B	2.37
0.65	H S B	H S B	H S B	H S B	2.67
0.75	H S B	H S B	H S B	H S B	2.94
0.85	H S B	H S B	H S B	H S B	3.31
1.00	H S B	H S B	H S B	H S B	3.72
1.10	H S	H S	H S	H S	4.24
1.20	H S	H S	H S	H S	4.45
1.25	H S B	H S B	H S B	H S B	4.71
1.35	H S B	H S B	H S B	H S B	5.17
1.50	H S B	H S B	H S B	H S B	5.84
1.65	H S	H S	H S	H S	6.08
1.75	H S	H S	H S	H S	6.55
2.00	H S B	H S B	H S B	H S B	7.42
2.25	H S B	H S B	H S B	H S B	8.35
2.50	H S B	H S B	H S B	H S B	9.29
2.75	H S B	H S B	H S B	H S B	10.5
3.00	H S B	H S B	H S B	H S B	11.6
3.50	S	S	S	S	12.9
3.75	B	S 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	B	96.7
28.00			B	B	109.5
31.50		B	B	B	122.5
35.00		B			133.5

Dimensions



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