

Data sheet

Oil Nozzles Types HFD/HD and SFD/SD

Application



Oil nozzles types HFD/HD and SFD/SD are designed for domestic and commercial high pressure oil burners operating with light or heavy fuel.

The steel nozzles are available with hollow or solid spray pattern in 3 different spray angles with capacities from 0.3 to 2.50 USgal/h.

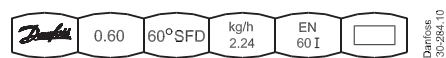
The types HFD and SFD have two sintered bronze filters while the types HD and SD only have one filter of sintered bronze or monel mesh.

Features:

- Light and heavy oil
- EN nozzles from 1.50 to 6.55 kg/h
- 100% test of capacity and performance

Identification

The nozzles are marked with the following information (example):



Stamped on the flats	
0.60	Reference capacity (USgal/h)
60° SFD	Spray angle and pattern (S = solid, H = Hollow, F = Double filter)
2.24	EN specified capacity (kg/h)
EN 60 I	Spray angle & Angle index (according to EN 293/EN 299)
EN specification point	1000 kPa (10 bar), 3.4 cSt., 840 kg/m³
	Batch no. for internal use
Reference specification point	700 kPa (7 bar), 2.7 cSt., 820 kg/m³

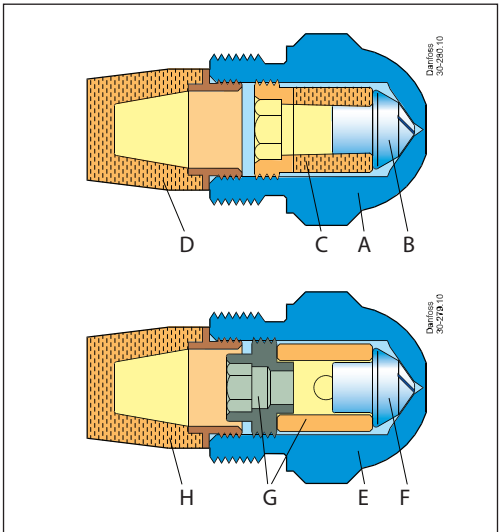
Design

Types HFD and SFD with double sinter filter

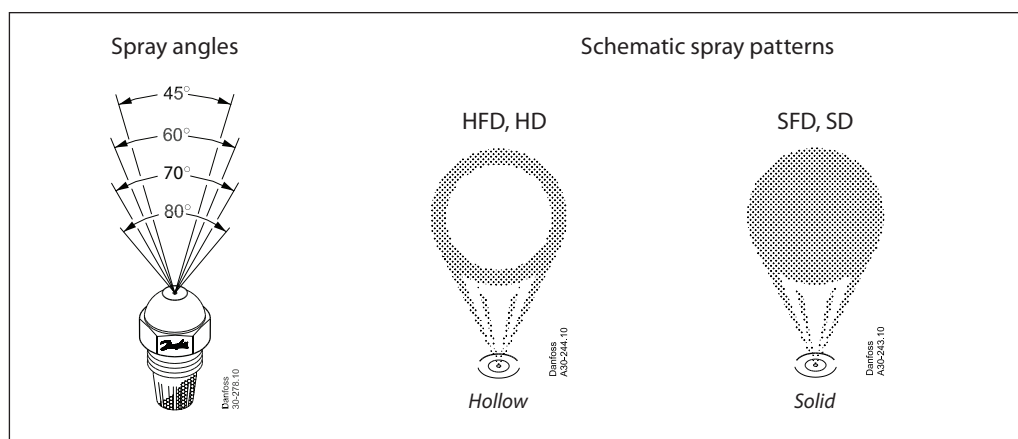
- A: Nozzle housing
- B: Nozzle cone
- C: Inner filter (secondary)
- D: External filter (primary)

Types HD and SD with single filter (example with external filter)

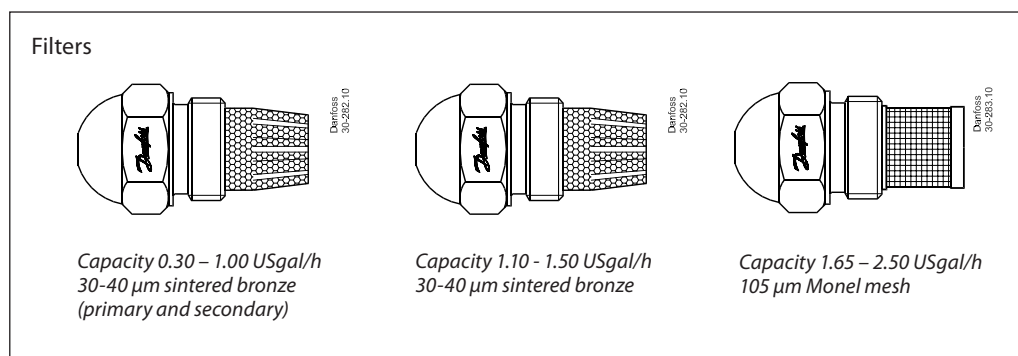
- E: Nozzle housing
- F: Nozzle cone
- G: Locknut
- H: Filter



Spray angles/patterns



Technical Data



Tightening torques

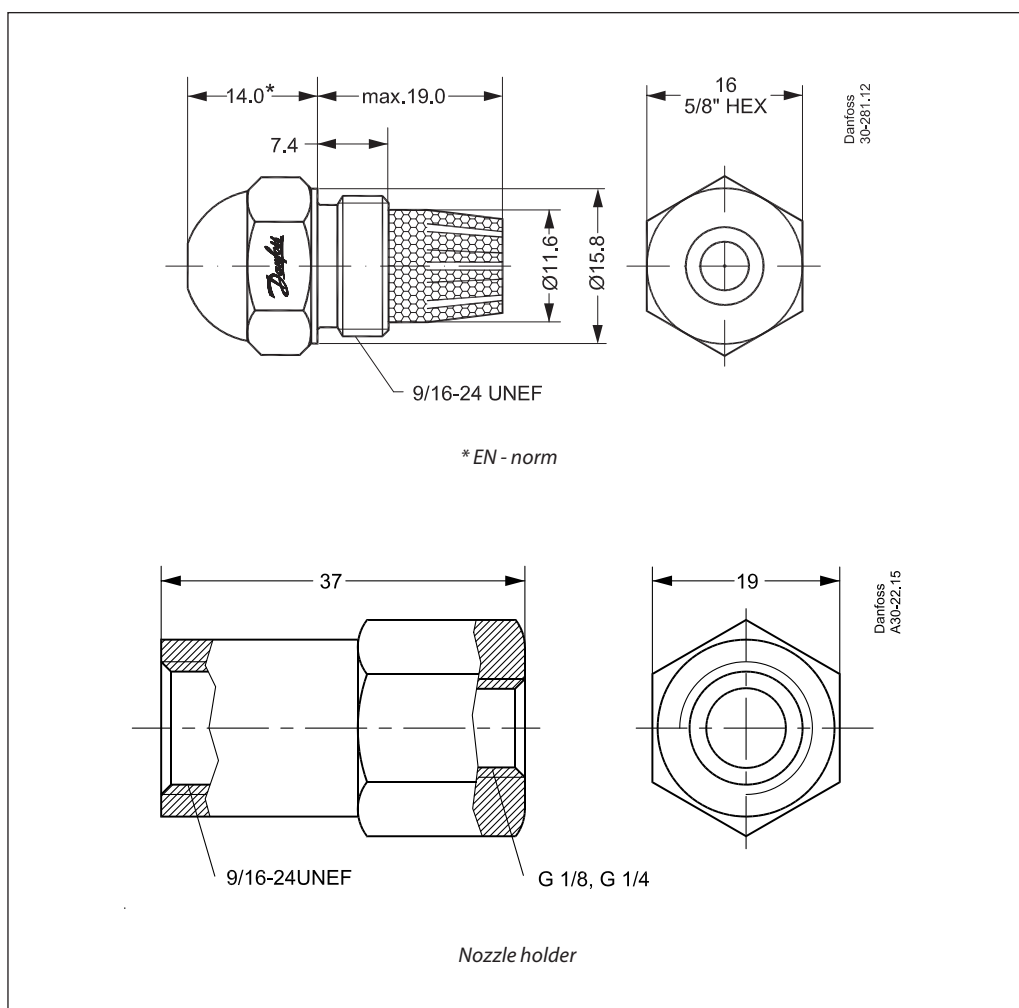
Recommended tightening torque	25 to 30 Nm (2.5 to 3.0 kpm)
Max. tightening torque	35 Nm (3.5 kpm)

Programme

Reference capacity (USgal/h)	Hollow HFD/HD				Solid SFD/SD			Specified capacity (kg/h)
	45°	60°	70°	80°	45°	60°	80°	
0.30	-	-	-	-	030F4002	030F6002	030F8002	1.12
0.35	-	-	-	-	030F4003	030F6003	030F8003	1.31
0.40	030H4004	030H6004	030H7004	030H8004	030F4004	030F6004	030F8004	1.50*
0.45	030H4006	030H6006	-	030H8006	030F4006	030F6006	030F8006	1.68*
0.50	030H4008	030H6008	030H7008	030H8008	030F4008	030F6008	030F8008	1.87*
0.55	030H4010	030H6010	-	030H8010	030F4010	030F6010	030F8010	2.06*
0.60	030H4012	030H6012	-	030H8012	030F4012	030F6012	030F8012	2.24*
0.65	030H4014	030H6014	-	030H8014	030F4014	030F6014	030F8014	2.43*
0.75	030H4016	030H6016	-	030H8016	030F4016	030F6016	030F8016	2.81*
0.85	030H4018	030H6018	-	030H8018	030F4018	030F6018	030F8018	3.18*
1.00	030H4020	030H6020	-	030H8020	030F4020	030F6020	030F8020	3.74*
1.10	030H4022	030H6022	-	030H8022	030F4022	030F6022	030F8022	4.12*
1.25	030H4024	030H6024	-	030H8024	030F4024	030F6024	030F8024	4.68*
1.35	030H4026	030H6026	-	030H8026	030F4026	030F6026	030F8026	5.05*
1.50	030H4028	030H6028	-	030H8028	030F4028	030F6028	030F8028	5.61*
1.65	030H4029	030H6029	-	030H8029	030F4029	030F6029	030F8029	6.17*
1.75	030H4030	030H6030	-	030H8030	030F4030	030F6030	030F8030	6.55*
2.00	030H4032	030H6032	-	030H8032	030F4032	030F6032	030F8032	7.48
2.25	030H4034	030H6034	-	030H8034	030F4034	030F6034	030F8034	8.42
2.50	030H4036	030H6036	-	030H8036	030F4036	030F6036	030F8036	9.35

*EN nozzles

Dimensions





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

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