

MAKING MODERN LIVING POSSIBLE

Danfoss



Oil Nozzles

**Hago**
PRECISION NOZZLES

Stainless Steel Nozzles from Danfoss Hago



Danfoss Hago presents a complete program of stainless steel simplex oil nozzles. These steel nozzles are available in capacities from .30 to 35.00 USgal/h in a variety of oil spray cone patterns including hollow, semi-solid and solid. Spray angles of 30°, 45°, 60°, 70°, 80° and 90° complete the nozzle characteristics that determine the configuration and distribution of the atomised oil within the spray pattern.

With the range in capacity, spray patterns and spray angles available, there is a Danfoss Hago steel nozzle to meet the specifications of virtually any application. In addition, Danfoss Hago produces steel nozzles with technical specifications to meet the requirements of specific applications.

Every nozzle produced by Danfoss Hago is quality tested. A 100 percent electronic test and visual test insure correct nozzle function and spray pattern uniformity.

For special nozzles or nozzles for other applications please contact Danfoss Hago Inc.

Spray pattern



Description

The "H" nozzle distributes atomised oil droplets evenly throughout a narrow band inside the outer edge of the spray cone pattern. Typical applications are oil burners that produce a hollow air pattern and lower firing rate applications.

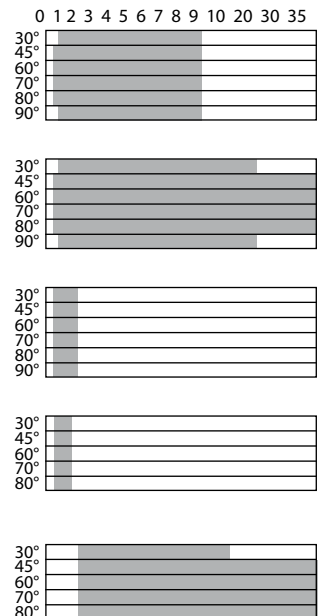
The "S-S" nozzle distributes atomised oil droplets evenly throughout the entire spray cone pattern at lower flow rates, however the spray cone pattern becomes more hollow as the flow rate increases. The "S-S" nozzles are good for applications where exact burner air pattern characteristics cannot be determined.

The "B" nozzle concentrates distribution of atomised oil droplets towards the center of the spray cone pattern. Designed for high static pressure oil burners specifying a type "B" spray pattern, this nozzle will provide optimum combustion efficiency in these applications.

The "ES" nozzle distributes atomised oil droplets evenly throughout the spray pattern in low firing rate applications. For those applications specifying an "ES" type solid spray pattern, this nozzle will provide optimum combustion efficiency.

The "P" nozzle produces a solid spray cone pattern in the lower flow rates and becomes more hollow as the flow rate increases. This nozzle series is an extension of the "B" and "ES" nozzle series. Specially designed with a pocketed disc, the "P" nozzle reduces combustion noise and flame pulsation in applications.

USgal/h




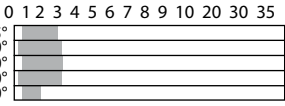

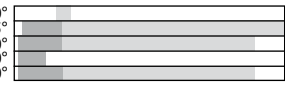


Brass Nozzles from Danfoss



Danfoss presents the well known "A" and "OD" programs of brass oil nozzles. The North American "A" series nozzles are available in 5 different spray angles between 40° and 90° in capacities from .30 to 3.00 USgal/h in a variety of oil spray cone patterns including hollow (AH), semi-solid (AB) and solid (AS). The "OD" series nozzles, are available in 6 different spray angles between 30° and 90° in capacities from .30 to 35.00 USgal/h in hollow (H), semi-solid (B) and solid (S) spray cone patterns.

Danfoss brass nozzle programs are known for their accuracy, consistency and reliability when installed in even the most difficult combustion applications. Designed and manufactured to exacting standards, they are interchangeable with other brass nozzles in the heating industry.

Danfoss is a market leader in the field of oil nozzle technology. Our experience in developing nozzles to meet the requirements of our OEM customers has put us on the leading edge of manufacturing technology.

Spray pattern	Description	USgal/h
"H" Hollow Cone 	The "H" nozzle distributes atomised oil droplets evenly throughout a narrow band inside the outer edge of the spray cone pattern. Typical applications are oil burners that produce a hollow air pattern and lower firing rate applications.	
"B" Semi-Solid Cone 	The "B" nozzle distributes atomised oil droplets evenly throughout the entire spray cone pattern at lower flow rates, however the spray cone pattern becomes more hollow as the flow rate increases. The "B" nozzle is good for applications where exact burner air pattern characteristics cannot be determined.	
"S" Solid Cone 	The "S" nozzle concentrates distribution of atomised oil droplets towards the center of the spray cone pattern. Designed for high static pressure oil burners specifying a type "B" spray pattern, this nozzle will provide optimum combustion efficiency in these applications.	

"A" series
 "OD" series



Danfoss is a leading global manufacturer of components for combustible liquid burners used in domestic, commercial and industrial applications. This position has been achieved by exceeding the expectations of our customers; responding quickly to their requirements; providing high quality in all respects and offering competitive prices – all with due consideration for the environment.

Our product range for oil burners and boilers comprises: oil pumps, oil nozzles, preheaters, ignition units, burner controls and thermostats.

Danfoss Hago Inc. was established in 2006 when Danfoss Inc. acquired Hago Manufacturing Co., Inc. Hago, established in 1937 produced steel nozzles for large and small oil burners and a variety of other products for industrial applications. Danfoss Hago Inc. holds a strong position in the world market based on products that are well recognised within their markets, and a high-quality product range manufactured to very exacting standards.