



# Micro-Flo™, Twin Filter & Standard Oil Burner Nozzles

Steinen Mfg. Co. 29 East Halsey Road, Parsippany, NJ 07054 973.887.6400 F: 973.887.4632 info@steinen.com www.steinen.com

Steinen manufactures oil burner nozzles and accessories, industrial nozzles and mining industry nozzles. Our products have demonstrated a worldwide reputation for quality, performance and reliability. They are sold domestically and internationally through a company sales organization, independent sales representatives and distributors.

Steinen's worldwide reputation for quality and reliability is a direct result of our 100% devotion to producing the best oil burner nozzle on the market. Today, virtually every major burner manufacturer relies on Steinen nozzles to achieve optimum burner performance.

Our state-of-the-art facilities are available to meet our customers' most demanding requirements. As one of the few nozzle manufacturers who fabricate all components on-site, Steinen completely controls every aspect of nozzle fabrication, ensuring the consistent quality and reliability that make Steinen the number one choice. Every Steinen nozzle is performance tested for flow capacity, spray characteristics and spray angle before leaving our factory. This assures our customers the quality, performance and consistency they have come to expect from Steinen nozzles.



## Micro-Flo™

Flow Rates  
.20-.35 GPH

Steinen has the technical and engineering expertise to produce ultra-low flow Micro-Flo™ nozzles.

- The Micro-Flo™ nozzles were developed with the world's leading manufacturers of high efficiency burners.
- All Micro-Flo™ nozzles contain super-fine twin filters – standard
- Micro-Flo™ nozzles are 100% factory tested to ensure perfect performance.

## Twin Filter

Flow Rates  
.40-.55 GPH

The Twin-Filter Nozzle's advanced design allows the interior of the nozzle to stay clean longer:

- Increased total filtering capacity by 62%
- Inner filter nominal filtration rate of 25 microns
- Anti-clog design stays cleaner longer insuring longer nozzle life
- 100% electronic and visual testing
- Trouble free operation thanks to stainless steel construction

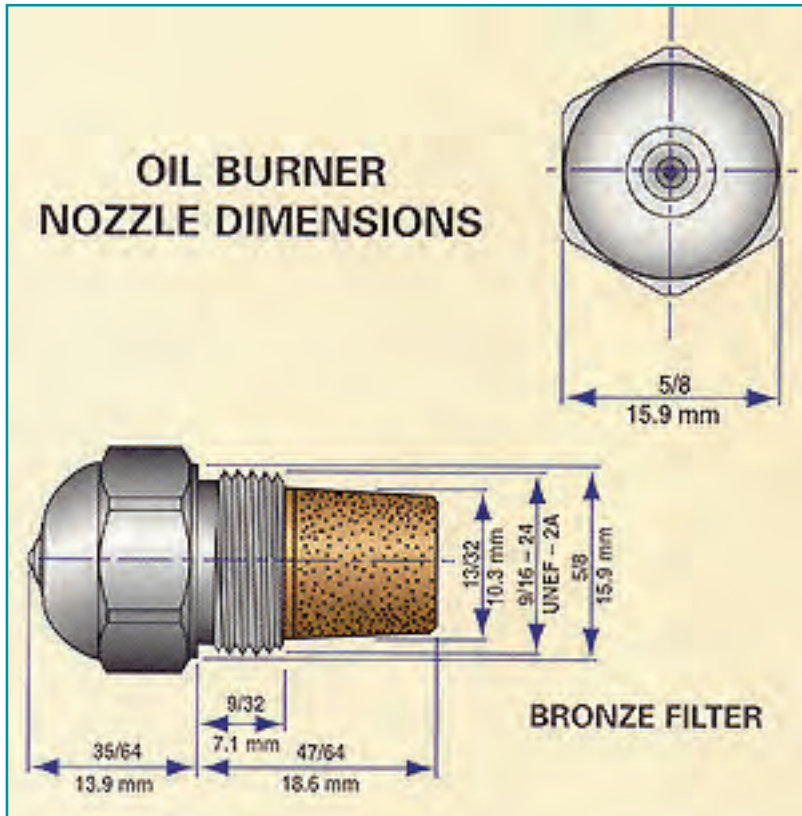
## Standard

Flow Rates  
.60-28 GPH

Steinen's Standard Oil Burner Nozzle's are available in a wide variety of designs to suit any burner application.

- Solid Cone (Type S and SS) nozzles from .60 – 28 G.P.H.
- Hollow Cone (Type H) nozzles from .60 – 2.25 G.P.H.
- Partial Hollow (Type PH) nozzles from .60 – 10.0 G.P.H.
- Unique Solid/Hollow (Type Q) nozzles from .60 – 3.0 G.P.H.
- 100% electronic and visual testing with filter

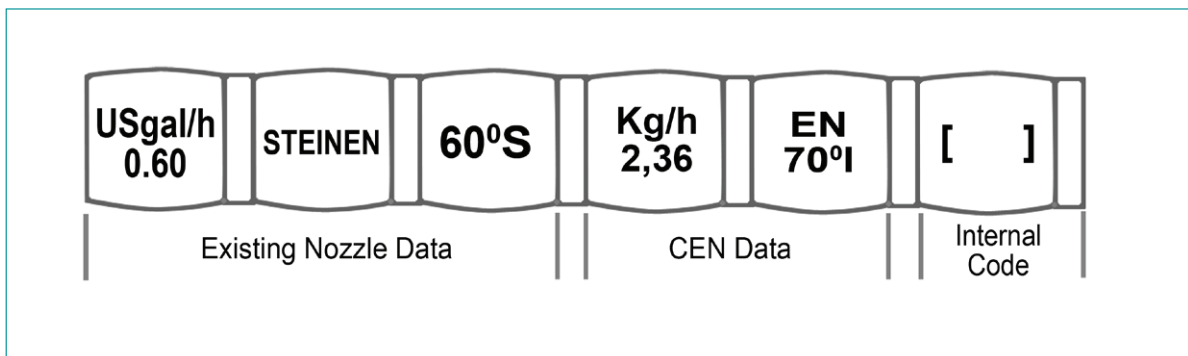
## Nozzle CEN Markings



Steinen manufactures the only stainless steel nozzles to conform with the European CEN Standard EN 293 and EN 299

To meet the requirements and definitions of the CEN standard, dimensions, capacity (in Kg/h) and spray pattern/spray angle of each nozzle must be carefully and consistently designed and tested to meet stringent European CEN standards.

Each nozzle is stamped with required CEN data to assure you this is the best performing nozzle on the market today. The performance of Steinen oil burner nozzles remains unchanged as far as capacity, atomizing angle and spray pattern are concerned.





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## Capacity/Size Chart

### STEINEN OIL BURNER NOZZLES

Availability of sizes and nozzle types

- Micro-Flo® MST & MHT Nozzles
- Twin Filter ST, HT & QT Nozzles
- Standard S, SS, H, PH & Q Nozzles

GPH		TYPE S / ST / MST NOZZLE				
100 PSI	10 BAR	30°	45°	60°	70°	80°
.20	0,79					
.25	1,01					
.30	1,15					
.35	1,37					
.40	1,59					
.45	1,76					
.50	1,91					
.55	2,12					
.60	2,36					
.65	2,59					
.75	2,89					
.85	3,31					
.90	3,57					
1.00	3,73					
1.10	4,33					
1.20	4,63					
1.25	4,83					
1.35	5,19					
1.50	5,78					
1.65	6,36					
1.75	6,74					
2.00	7,66					
2.25	8,61					
2.50	9,57					
2.75	10,53					
3.00	11,49					
3.50	13,40					
4.00	15,31					

GPH		TYPE H / HT / MHT NOZZLE				
100 PSI	10 BAR	45°	60°	70°	80°	90°
.20	0,79					
.25	1,01					
.30	1,15					
.35	1,37					
.40	1,59					
.45	1,76					
.50	1,91					
.55	2,12					
.57 MH	2,19					
.60	2,36					
.65	2,59					
.70	2,71					
.75	2,89					
.80	3,11					
.85	3,31					
.90	3,57					
1.00	3,73					
1.10	4,33					
1.25	4,83					
1.35	5,19					
1.50	5,78					
1.65	6,36					
1.75	6,74					
2.00	7,66					
2.25	8,61					

GPH		TYPE SS NOZZLE		
100 PSI	10 BAR	45°	60°	80°
4.50	17,23			
5.00	19,14			
5.50	21,06			
6.00	22,97			
6.50	24,89			
7.00	26,80			
7.50	28,71			
8.00	30,63			
9.00	34,46			
10.00	38,28			
11.00	42,11			
12.00	45,94			
13.00	49,77			
14.00	53,60			
15.00	57,43			
16.00	61,26			
17.00	65,08			
18.00	68,91			
20.00	76,57			
22.00	84,23			
24.00	91,88			
26.00	99,54			
28.00	107,20			

GPH		TYPE Q/QT NOZZLE		
100 PSI	10 BAR	45°	60°	80°
.50	1,91			
.60	2,36			
.65	2,59			
.75	2,89			
.85	3,31			
1.00	3,73			
1.10	4,33			
1.25	4,83			
1.35	5,19			
1.50	5,78			
1.65	6,36			
1.75	6,74			
2.00	7,66			
2.25	8,61			
2.50	9,57			
2.75	10,53			
3.00	11,49			

GPH		TYPE PH NOZZLE	
100 PSI	10 BAR	60°	80°
2.50	9,57		
2.75	10,53		
3.00	11,49		
3.50	13,40		
4.00	15,31		
4.50	17,23		
5.00	19,14		
5.50	21,06		
6.00	22,97		
6.50	24,89		
7.00	26,80		
7.50	28,71		
8.00	30,63		
9.00	34,46		
10.00	38,28		



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## Cross Reference Chart

The cross reference chart provides a quick look up of different manufacturers nozzles. This is only a starting point in determining the proper replacement nozzle.

Contact Steinen for more information if you wish to cross reference another oil burner nozzle to a Steinen nozzle.

### INTERCHANGE CHART

TYPE		FLOW CAPACITY	TYPE	*TWIN FILTERS AVAILABLE	STEINEN
DELAVANA	A	.40-2.25	H*	Hollow Cone	
	A	2.50-10.00	PH	More Hollow	○
	B	.40-4.00	S*	Solid Cone	●
	B	4.50-28.00	SS	Semi-Solid Cone	●
	W	.50-3.00	Q*	Special	●
	MH	.57	MH	Mobile Home	○
DANFOSS	S	.40-4.00	S*	Solid Cone	●
	H	.40-2.25	H*	Hollow Cone	○
	H	2.50-10.00	PH	More Hollow	○
	B	4.50-28.00	SS	Semi-Solid Cone	●
HAGO	H	.40-2.25	H*	Hollow Cone	○
	H	2.50-10.00	PH	More Hollow	○
	B	.40-4.00	S*	Solid Cone	●
	SS	.50-3.00	Q*	Special	●
	SS	4.50-28.00	SS	Semi-Solid Cone	●
	P	ALL	S*	Solid Cone	●
FLUIDICS	SF	.40-.55	S*	Solid Cone	●
	S	.60-4.00	S	Solid Cone	●
	HF	.40-.55	H*	Hollow Cone	○
	H	.60-2.25	H	Hollow Cone	○

#### Oil Burner Nozzles

Since 1907  
Quality, Technology, Efficiency -  
Because it Does Matter

#### WM. STEINEN MFG. CO.

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#### Twin-Filter Nozzle\*

