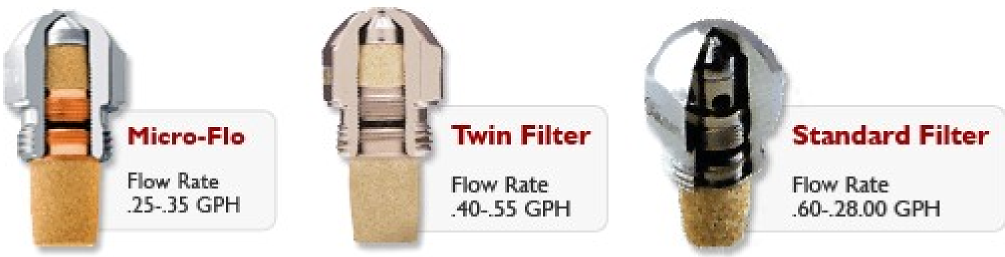
INDUSTRIAL, MINING, OIL BURNER & AIR CONVEYOR

NOZZLE CATALOG

Steinen Mfg. Co. 29 East Halsey Road Parsippany, NJ 07054
T: 973-887-6400 F: 973-887-4632 Email: info@steinen.com www.steinen.com

Dyna-Coin® *OIL BURNER* NOZZLES

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.



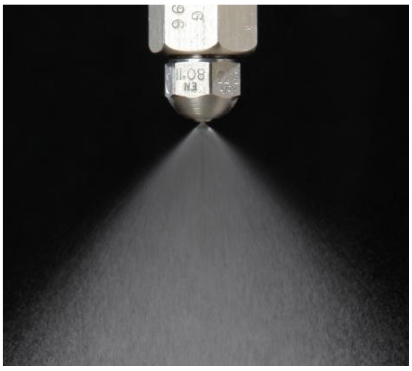
Steinen's worldwide reputation for quality and reliability is a direct result of our 100% devotion to producing the best oil burner nozzle on the market. Today, virtually every major burner manufacturer relies on Steinen nozzles to achieve optimum burner performance.

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.

With one of the largest sales and service organizations in the industry and office locations throughout the world, Steinen continues to provide its customers with the products they need to compete in a global market.

Steinen Dyna-Coin ® Process is a trademark of the Wm. Steinen Mfg. Co. The Dyna-Coin ® Process provides a high quality finish for a perfect seating surface between the metering valve and the nozzle body, thus assuring consistent, accurate fuel delivery.

Steinen - the most accurate oil burner spray nozzle in the world.



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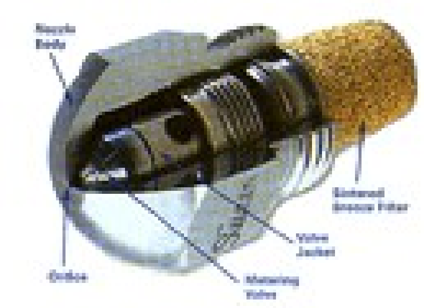
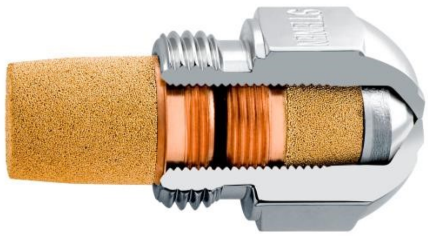
Dyna-Coin® *OIL BURNER* NOZZLES

Nozzle Design Features

Nozzle Body - The nozzle body is constructed from a specially formulated stainless steel in order to achieve long wear life and lower internal surface temperatures than low cost brass or similar high conductivity materials. Lower surface temperatures reduce heat transfer thus minimizing varnish accumulation and carbon deposits. Reduced heat absorption within the nozzle body is especially critical with today's smaller and hotter operating combustion conditions.





Valve Jacket - Round fuel inlet holes reduce the possibility of particle contamination while achieving a uniform flow and distribution of fuel oil through the nozzle. All nozzles contain an exclusive nickel alloy treated jacket assuring improved wear and corrosion resistance. The nickel alloy treated jacket provides a non-magnetic surface offering a smooth fuel delivery.

Dyna-Coin® Process - The Dyna-Coin® process provides a high quality finish for a perfect seating surface between the metering valve and the nozzle body. This assures consistent, accurate fuel delivery.

Sintered Bronze Filters - Are designed to provide maximum filtration capabilities. Bronze filters are furnished on all standard nozzles, .40 G.P.H. thru 15.00 G.P.H. (1, 51 thru 57, 0 l/h). Nozzles 16.00 G.P.H. (61,0 l/h) and larger are furnished less filters.

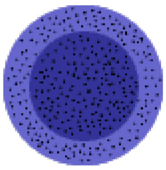
Nozzle Design and Operating Considerations - Nominal nozzle flow capacities are based on an operating pressure of 100 P.S.I. (6.9 Bar). Operation at higher pressures increases flow capacities. The effects of pressure, viscosity, density, grade and especially burner configurations, are important in the design and operating performance characteristics of oil fired equipment.

Dyna-Coin® *OIL BURNER* NOZZLES

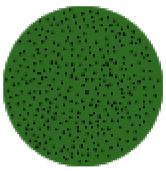
Twin-Filter Nozzles

The Twin-Filter Nozzle is specifically designed for today's demanding requirements. The advanced design allows the interior of the nozzle to stay clean longer so that oil flows freely through the finely machined tangential slots into the swirl chamber and out the orifice with no restriction:

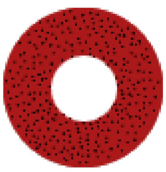
- Increased total filtering capacity by 62% over single filter technology
- Inner filter nominal filtration rate of 25 microns
- 15% more filter volume than the competition
- Anti-clog design stays cleaner longer even under today's flow rate specifications and fuel oil impurities thus insuring longer nozzle life
- 100% electronic and visual testing to ensure proper flow, angle and spray pattern
- Flow tolerance +/- 4%
- Trouble free operation, even at extreme temperatures, thanks to stainless steel construction



TYPE ST
.40 - .55 G.P.H. (1,32 - 1,76 Kg/h) at 6.9 bar
Solid cone nozzles are designed to produce a fine atomized uniform spray distribution pattern.



TYPE QT
.50 - .55 G.P.H (1,59 - 1,76 Kg/h) at 6.9 bar
A specially designed nozzle with a distinctive spray pattern for use where the conventional Hollow or Solid Cone spray patterns do not match a particular air pattern. The Type QT is highly successful in solving critical noise and pulsating combustion problems.



TYPE HT
.40 - .55 G.P.H. (1,32 - 1,76 Kg/h) at 6.9 bar
Produces a fine atomized hollow cone spray distribution pattern. The nozzle is designed for use with hollow cone air patterns to produce clean, quiet and efficient combustion. This nozzle is also recommended for burners where there is no distinct air pattern.

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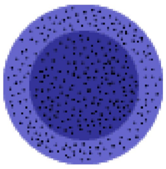
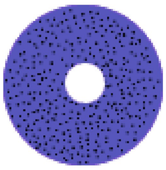
Dyna-Coin® *OIL BURNER* NOZZLES

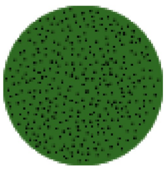
Standard Filter Nozzles



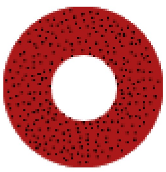
TYPE S
.60 - 4.00 G.P.H. (1,96 - 12,71 Kg/h) at 6.9 bar
Solid cone nozzles are designed to produce a fine atomized uniform spray distribution pattern.



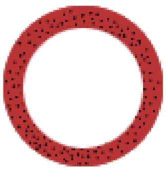
TYPE SS
4.50 - 28.00 G.P.H. (14,31 - 89,03 Kg/h) at 6.9 bar
A general purpose nozzle in the larger sizes that delivers a semi-solid cone spray distribution pattern. As the flow rate of the nozzle increases, the spray pattern becomes more hollow. This nozzle, in addition to the type PH, is recommended for applications where large capacities are required.



TYPE Q
.60 - 3.00 G.P.H (1,96 - 9,54 Kg/h) at 6.9 bar
A specially designed nozzle with a distinctive spray pattern for use where the conventional Hollow or Solid Cone spray patterns do not match a particular air pattern. The Type Q is highly successful in solving critical noise and pulsating combustion problems.



TYPE H
.60 - 2.25 G.P.H. (1,96 - 7,15 Kg/h) at 6.9 bar
Produces a fine atomized hollow cone spray distribution pattern. The nozzle is designed for use with hollow cone air patterns to produce clean, quiet and efficient combustion. This nozzle is also recommended for burners where there is no distinct air pattern.



TYPE PH
2.50 - 10.00 G.P.H. (7,95 - 31,79 Kg/h) at 6.9 bar
Similar to the Type H spray patterns except that they are relatively more hollow. Made in the larger capacities for light and heavy oil applications where fine atomization is required.

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STEINEN NOZZLES

Since 1907
Quality, Tradition, Efficiency – because it does matter

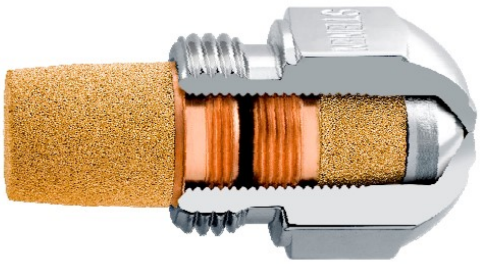
Oil Burner Nozzles

STEINEN INTRODUCES THE MICRO-FLO™ NOZZLE SERIES FOR OIL BURNERS

The Micro-Flo™ nozzle series was developed in close cooperation with the world's leading manufacturers of high efficiency burners.

All Micro-Flo™ nozzles contain super-fine twin filters – standard!

As with all Steinen nozzles, Micro-Flo™ nozzles are 100% factory tested to ensure perfect performance.



MICRO-FLO™ NOZZLES

- Reduce NOx emissions
- Produce a quiet, soft and short flame
- Reduce oil consumption

Steinen has the technical and engineering expertise to produce ultra-low flow nozzles and is currently developing in partnership with several OEM's the next generation of Micro-Flo™ nozzles.

STEINEN MICRO-FLO™ NOZZLE SERIES

Nozzle Size	Gallons per Hour (GPH) @ 10 BAR	Kilograms per Hour (KG/H) @ 10 BAR	Liters per Hour (L/H) @ 10 BAR	Spray Angles Available	Pattern	Nozzle Prefix
0.25	0.315	1.01	1.19	45º, 60º, 80º	Solid Cone	MST
0.25	0.315	1.01	1.19	60º, 80º	Hollow Cone	MHT
0.30	0.360	1.15	1.36	45º, 60º, 80º	Solid Cone	MST
0.30	0.360	1.15	1.36	60º, 80º	Hollow Cone	MHT
0.35	0.430	1.37	1.63	45º, 60º, 80º	Solid Cone	MST
0.35	0.430	1.37	1.63	60º, 80º	Hollow Cone	MHT

Special flow rates and spray angles are available upon request.

Steinen's reputation for quality and reliability continues from our commitment to engineer and deliver the best oil burner nozzles in the world.

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STEINEN Since 1907

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OIL BURNER NOZZLES
DATA SHEET

CEN Marking Index Angles and Spray Pattern Indices

Dyna-Coin® Oil Burner Nozzles

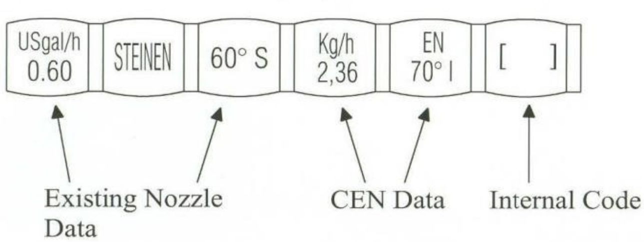
GPH	KG/H	TYPE ST & S				
100 PSI	10 BAR	30°	45°	60°	70°	80°
.40	1,59		50°I	80°I		80°I
.45	1,76		50°I	70°I		
.50	1,91	50°I	60°I	70°I		80°I
.55	2,12		60°I	70°I		
.60	2,36	50°II	50°I	70°I		80°II
.65	2,59	50°II	50°II	70°II	70°II	80°II
.75	2,89	50°III	50°II	70°I		80°III
.85	3,31	50°II	50°II	70°II	70°III	80°III
.90	3,57			70°I		
1.00	3,73	50°I	60°I	70°I		80°II
1.10	4,33		50°II	60°III		80°IV
1.20	4,63		50°III	60°II		
1.25	4,83	50°II	50°II	60°IV		70°IV
1.35	5,19		50°II	60°IV		80°IV
1.50	5,78	50°III	50°III	60°IV		80°IV
1.65	6,36		50°III	60°IV		80°IV
1.75	6,74		50°III	60°IV		70°IV

GPH	KG/H	TYPE HT & H		
100 PSI	10 BAR	45°	60°	80°
.40	1,59		80°I	90°I
.45	1,76		80°I	
.50	1,91	60°I	70°I	80°I
.55	2,12		70°II	
.60	2,36	60°II	70°III	80°IV
.65	2,59	50°II	70°IV	80°IV
.75	2,89	60°III	70°IV	80°IV
.85	3,31	50°II	60°IV	80°IV
1.00	3,73	60°IV	70°IV	80°IV
1.10	4,33	60°IV	60°IV	70°IV
1.25	4,83	60°IV	60°IV	80°IV
1.35	5,19	50°IV	70°IV	80°IV
1.50	5,78	50°III	60°IV	80°IV
1.65	6,36		60°IV	80°IV
1.75	6,74		70°IV	80°IV

GPH	KG/H	TYPE QT & Q		
100 PSI	10 BAR	45°	60°	80°
.50	1,91	60°I	80°I	90°II
.60	2,36	50°II	70°III	90°III
.65	2,59	60°III	70°IV	80°IV
.75	2,89	50°III	70°III	80°III
.85	3,31	60°IV	70°IV	80°IV
1.00	3,73	60°IV	70°IV	70°IV
1.10	4,33	60°IV	70°IV	
1.25	4,83	50°IV	60°IV	
1.35	5,19	50°IV	60°IV	
1.50	5,78	50°IV	60°IV	
1.65	6,36	50°IV	60°IV	
1.75	6,74		60°IV	

Gray = Not Available

NOZZLE BODY STAMPING



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.

Oil Burner Nozzles

OIL BURNER NOZZLES
CROSS REFERENCE CHART

Cross Reference Chart

	TYPE	FLOW CAPACITY	TYPE	*TWIN FILTERS AVAILABLE	
DELAVAN	A	.40–2.25	H*	Hollow Cone	STEINEN
	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	STEINEN
	H	.40–2.25	H*	Hollow Cone	
	H	2.50–10.00	PH	More Hollow	
	B	4.50–28.00	SS	Semi-Solid Cone	

	TYPE	FLOW CAPACITY	TYPE	*TWIN FILTERS AVAILABLE	
HAGO	H	.40–2.25	H*	Hollow Cone	STEINEN
	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	STEINEN
	S	.60–4.00	S	Solid Cone	
	HF	.40–.55	H*	Hollow Cone	
	H	.60–2.25	H	Hollow Cone	

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Pressure Flow Tables

Approximate Capacities at Various Pressures

Rated Flow at 100 P.S.I.	U.S. Gallons per Hour					
	Pressure P.S.I.					
G.P.H.	125	145	175	200	250	300
0.40	0.45	0.48	0.53	0.57	0.63	0.69
0.45	0.50	0.54	0.60	0.64	0.71	0.78
0.50	0.56	0.60	0.66	0.71	0.79	0.87
0.55	0.61	0.66	0.73	0.78	0.87	0.95
0.60	0.67	0.72	0.79	0.85	0.95	1.04
0.65	0.73	0.78	0.86	0.92	1.03	1.13
0.75	0.84	0.90	0.99	1.06	1.19	1.30
0.85	0.95	1.02	1.12	1.20	1.34	1.47
0.90	1.01	1.08	1.19	1.27	1.42	1.56
1.00	1.12	1.20	1.32	1.41	1.58	1.73
1.10	1.23	1.32	1.46	1.56	1.74	1.91
1.20	1.34	1.45	1.59	1.70	1.90	2.08
1.25	1.40	1.51	1.65	1.77	1.98	2.17
1.35	1.51	1.63	1.79	1.91	2.13	2.34
1.50	1.68	1.81	1.98	2.12	2.37	2.60
1.65	1.84	1.99	2.18	2.33	2.61	2.86
1.75	1.96	2.11	2.32	2.47	2.77	3.03
2.00	2.24	2.41	2.65	2.83	3.16	3.46
2.25	2.52	2.71	2.98	3.18	3.56	3.90
2.50	2.80	3.01	3.31	3.54	3.95	4.33
2.75	3.07	3.31	3.64	3.89	4.35	4.76
3.00	3.35	3.61	3.97	4.24	4.74	5.20
3.50	3.91	4.21	4.63	4.95	5.53	6.06
4.00	4.47	4.82	5.29	5.66	6.32	6.93
4.50	5.03	5.42	5.95	6.36	7.12	7.79
5.00	5.59	6.02	6.61	7.07	7.91	8.66
5.50	6.15	6.62	7.28	7.78	8.70	9.53
6.00	6.71	7.23	7.94	8.49	9.49	10.4
6.50	7.27	7.83	8.60	9.19	10.3	11.3
7.00	7.83	8.43	9.26	9.90	11.1	12.1
7.50	8.39	9.03	9.92	10.6	11.9	13.0
8.00	8.94	9.63	10.6	11.3	12.6	13.9
9.00	10.1	10.8	11.9	12.7	14.2	15.6
10.00	11.2	12.0	13.2	14.1	15.8	17.3
11.00	12.3	13.2	14.6	15.6	17.4	19.1
12.00	13.4	14.5	15.9	17.0	19.0	20.8
13.00	14.5	15.7	17.2	18.4	20.6	22.5
14.00	15.7	16.9	18.5	19.8	22.1	24.2
15.00	16.8	18.1	19.8	21.2	23.7	26.0
16.00	17.9	19.3	21.2	22.6	25.3	27.7
17.00	19.0	20.5	22.5	24.0	26.9	29.4
18.00	20.1	21.7	23.8	25.5	28.5	31.2
20.00	22.4	24.1	26.5	28.3	31.6	34.6
22.00	24.6	26.5	29.1	31.1	34.8	38.1
24.00	26.8	28.9	31.7	33.9	37.9	41.6
26.00	29.1	31.3	34.4	36.8	41.1	45.0
28.00	31.3	33.7	37.0	39.6	44.3	48.5

Oil Standards: 3.4 cst. viscosity, .84 density @ 20 C per EN 293

Approximate Capacities at Various Pressures

Rated Flow at 100 P.S.I.		Kg/h				
		Pressure BAR				
G.P.H.	l/h	10	12	14	18	20
0.40	1,51	1.59	1.74	1.88	2.13	2.25
0.45	1,70	1.76	1.93	2.08	2.36	2.49
0.50	1,89	1.91	2.09	2.26	2.56	2.70
0.55	2,08	2.12	2.32	2.51	2.84	3.00
0.60	2,27	2.36	2.59	2.79	3.17	3.34
0.65	2,46	2.59	2.84	3.06	3.47	3.66
0.75	2,84	2.89	3.17	3.42	3.88	4.09
0.85	3,22	3.31	3.63	3.92	4.44	4.68
0.90	3,41	3.57	3.91	4.22	4.79	5.05
1.00	3,78	3.73	4.09	4.41	5.00	5.28
1.10	4,16	4.33	4.74	5.12	5.81	6.12
1.20	4,54	4.63	5.07	5.48	6.21	6.55
1.25	4,73	4.83	5.29	5.71	6.48	6.83
1.35	5,11	5.19	5.69	6.14	6.96	7.34
1.50	5,68	5.78	6.33	6.84	7.75	8.18
1.65	6,25	6.36	6.97	7.53	8.53	9.00
1.75	6,62	6.74	7.38	7.97	9.04	9.53
2.00	7,60	7.66	8.39	9.06	10.28	10.83
2.25	8,50	8.61	9.43	10.19	11.55	12.18
2.50	9,50	9.57	10.48	11.32	12.84	13.54
2.75	10,4	10.53	11.53	12.46	14.13	14.89
3.00	11,4	11.49	12.59	13.59	15.42	16.25
3.50	13,0	13.40	14.68	15.85	17.98	18.95
4.00	15,0	15.31	16.77	18.11	20.54	21.65
4.50	17,0	17.23	18.87	20.39	23.12	24.37
5.00	19,0	19.14	20.97	22.65	25.68	27.07
5.50	21,0	21.06	23.07	24.92	28.25	29.79
6.00	23,0	22.97	25.16	27.18	30.82	32.49
6.50	25,0	24.89	27.26	29.45	33.39	35.20
7.00	26,5	26.8	29.36	31.71	35.96	37.91
7.50	28,0	28.71	31.45	33.97	38.52	40.61
8.00	30,0	30.63	33.55	36.24	41.09	43.32
9.00	34,0	34.46	37.75	40.77	46.23	48.74
10.00	38,0	38.28	41.93	45.29	51.36	54.14
11.00	42,0	42.11	46.13	49.82	56.50	59.56
12.00	45,0	45.94	50.32	54.36	61.63	64.98
13.00	49,0	49.77	54.52	58.89	66.77	70.40
14.00	53,0	53.6	58.71	63.42	71.91	75.81
15.00	57,0	57.43	62.91	67.95	77.05	81.23
16.00	61,0	61.26	67.10	72.48	82.19	86.65
17.00	64,0	65.08	71.29	77.00	87.31	92.05
18.00	68,0	68.91	75.48	81.53	92.45	97.47
20.00	76,0	76.57	83.87	90.60	102.7	108.3
22.00	83,0	84.23	92.27	99.66	113	119.14
24.00	91,0	91.88	100.7	108.7	123.27	129.96
26.00	98,0	99.54	109.04	117.8	133.5	140.8
28.00	106	107.2	117.4	126.8	143.8	151.6

Oil Standards: 3.4 cst. viscosity, .84 density @ 20 C per EN 293

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OIL BURNER NOZZLES
SIZES AVAILABLE

Nozzles Available for North America, South America, Asia & Africa

Capacities, Spray Angles and Spray Patterns

Dyna-Coin® Oil Burner Nozzles

STEINEN MICRO-FLO™ NOZZLE SERIES

Gallons per Hour (GPH) @ 100PSI	Kilograms per Hour (KG/H) @ 10 BAR	Spray Angles Available	Pattern	Nozzle Prefix
0.25	1.01	45°, 60°, 80°	Solid Cone	MST
0.25	1.01	60°, 80°	Hollow Cone	MHT
0.30	1.15	45°, 60°, 80°	Solid Cone	MST
0.30	1.15	60°, 80°	Hollow Cone	MHT
0.35	1.37	45°, 60°, 80°	Solid Cone	MST
0.35	1.37	60°, 80°	Hollow Cone	MHT

TYPE ST .40-55

GPH 100 PSI	KG/H 10 BAR	30°	45°	60°	70°	80°
.40	1,59		●	●		●
.45	1,76		●	●		●
.50	1,91	●	●	●		●
.55	2,12		●	●		●

TYPE HT .40-55

GPH 100 PSI	KG/H 10 BAR	45°	60°	80°
.40	1,59		●	●
.45	1,76		●	●
.50	1,91	●	●	●
.55	2,12		●	●

TYPE QT .50

GPH 100 PSI	KG/H 10 BAR	45°	60°	80°
.50	1,91	●	●	●

TYPE S .60-4.00

GPH 100 PSI	KG/H 10 BAR	30°	45°	60°	70°	80°
.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	●	●	●		●

TYPE H .60-2.25

GPH 100 PSI	KG/H 10 BAR	45°	60°	70°	80°	90°
.57MH	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		●		●	

TYPE SS 4.50-28.00

GPH 100 PSI	KG/H 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	●		

TYPE PH 2.50-10.00

GPH 100 PSI	KG/H 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	●	

TYPE Q .60-3.00

GPH 100 PSI	KG/H 10 BAR	45°	60°	80°
.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		●	

Available in Twin Filter .25-.55GPH

Available in Standard Filter .60-28GPH

Not Available

KG/H For 2.00 - 28.00 calculated

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Nozzles Available for Europe

STEINEN MICRO-FLO™ DÜSENSERIE						
Düsengrösse	Gallonen/Stunde (GPH) @ 10 BAR	Kilogramm/Stunde (KG/H) @ 10 BAR	Liter/Stunde (L/H) @ 10 BAR	Sprühwinkel verfügbar	Sprühmuster	Düsen bezeichnung
0.25	0.315	1.01	1.19	45°, 60°, 80°	Vollkegel	MST
0.25	0.315	1.01	1.19	60°, 80°	Hohlkegel	MHT
0.30	0.360	1.15	1.36	45°, 60°, 80°	Vollkegel	MST
0.30	0.360	1.15	1.36	60°, 80°	Hohlkegel	MHT
0.35	0.430	1.37	1.63	45°, 60°, 80°	Vollkegel	MST
0.35	0.430	1.37	1.63	60°, 80°	Hohlkegel	MHT

TYPE S/ST .40-55

GPH 7 BAR	KG/H 10 BAR	30°	45°	60°	70°	80°
.40	1,59					
.45	1,76					
.50	1,91					
.55	2,12					

TYPE H/HT .40-55

GPH 7 BAR	KG/H 10 BAR	45°	60°	80°
.40	1,59			
.45	1,76			
.50	1,91			
.55	2,12			

TYPE Q/QT .50

GPH 7BAR	KG/H 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			

TYPE S .60-4.00

GPH	KG/H					
.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					

TYPE H .60-2.25

GPH	KG/H			
.60	2,36			
.65	2,59			
.75	2,89			
.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			

TYPE SS 4.50-28.00

GPH 7 BAR	KG/H 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			

TYPE PH 2.50-10.00

GPH 7 BAR	KG/H 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		

Verfügbar als Doppelfilter .25 -.55GPH

.60-28GPH

Nicht verfügbar

KG/H For 2.00 - 28.00 calculated

Oil Burner Nozzles

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