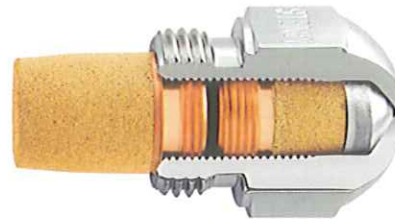
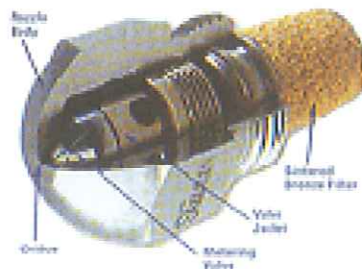




Dyna-Coin® OIL BURNER NOZZLES

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

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.

Oil Burner Nozzles



Pressure Flow Tables

Approximate Capacities at Various Pressures						
Rated Flow at 100 P.S.I.	U.S. Gallons per Hour					
	Pressure P.S.I.					
	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					
	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

Oil Burner Nozzles