



C-202

Air Operated Nozzle



INDUSTRIAL OIL NOZZLE

Monarch offers a superior line of nozzles including the C-202 Air Operated Nozzle. This series is widely used on industrial burners using up to 50 psi air pressure for atomization.

The C-202 nozzle is recommended for large capacity industrial applications such as airports, manufacturing facilities, universities and military applications. For excellent firing results, use the C-202 in combination with high velocity combustion air. C-202 nozzles are made of cold rolled steel and are precisely machined to combine air and oil into a common swirl chamber through separate openings to properly proportion the two. This results in the oil being discharged in exceptionally fine spray ready for burning. Flow ratings in the table are based on No. 2 fuel oil, but heavy oils can be handled satisfactorily provided they are preheated to bring the viscosity down to about 150 SSU.

Flow rates shown are determined by air and oil pressured and turndown ratios between 3 and 4 to 1 can be obtained by reducing air pressure to as low as 5 psi, keeping oil pressure always at least 2 psi higher than the air. Best atomization is obtained by regulating the air pressure. Some manufacturers operate at 15 psi constant air pressure and vary only the oil pressure for different flow rates and others modulate both air and oil pressures for maximum turn-down. Minimum air requirement depends on oil pressures used, as any particular flow rate can be produced by an infinite number of different air-oil pressure combinations. Curve charts showing oil flow rates and air consumption at different air and oil pressures are available upon request for each size nozzle.

The C-202 nozzles comes with angles of 60° or 80° spray angle but other specifications are available for custom.

MATERIAL

Cold rolled steel

PIPE CONNECTION

1/8" to 3/8" depending on size

SPRAY ANGLES

60° or 80°

other specifications are available on enquiry

CAPACITIES & DIMENSIONS

Minimum Capacity: Gallons Per Hour			
150 SSU	Capacity GPH	Air Pressure PSIG	Oil Pressure PSIG
A-50	33.0	14	10
	40.0	10	8
B-50	35.0	14	10
	42.0	10	8
C-50	67.0	14	10
	72.0	10	8
D-50	5.0	10	8
	20.0	10	10
E-50	11.0	14	10
	16.0	10	8
	29.0	10	10
F-50	70.0	14	10
	75.0	10	8
	100.0	10	10
150.0	50.0	52.5	65.0



C-206

Air Operated Nozzle

INDUSTRIAL OIL NOZZLE

Monarch offers a superior line of nozzles including the C-206 Air Operated Nozzles. This series is widely used on industrial burners using 30 psi for optimal atomization.

For excellent firing results use the C-206 in combination with high velocity combustion air. C-206 nozzles are made of cold rolled steel and are precisely machined to combine air and oil into a common swirl chamber through separate openings to properly proportion the two. This results in the oil being discharged in exceptionally fine spray ready for burning. Flow ratings in the table are based on No. 2 fuel oil, but heavy oils can be handled satisfactorily provided they are preheated to bring the viscosity down to about 100 SSU.

Flow rates shown are determined by air and oil pressures and turndown ratios between 3 and 4 to 1 can be obtained by reducing air pressure to as low as 5 psi, keeping oil pressure always at least 2 psi higher than the air. Best atomization is obtained by regulating the air pressure. Some manufacturers operate at 15 psi constant air pressure and vary only the oil pressure for different flow rates and others modulate both air and oil pressures for maximum turn-down. Minimum air requirement depends on oil pressures used, as any particular flow rate can be produced by an infinite number of different air-oil pressure combinations. Curve charts showing oil flow rates and air consumption at different air and oil pressures are available upon request for each size nozzle.

The C-206 nozzles come standard as a 60° spray angle but other specifications are available for custom requests.

ORDERING: Specify quantity and figure number. Note: Oil pressure must be at least 2 PSI higher than air pressure. Refer to burner manufacturer's instructions.

MATERIAL

Cold rolled steel

PIPE CONNECTION

1/8" to 3/8" depending on size

SPRAY ANGLES

60°

CAPACITIES & DIMENSIONS

Minimum Capacity: Gallons Per Hour				
*TIP No.	*Disc No.	Capacity	Air Pressure PSIG	Oil Pressure PSIG
A-1	A-2	15.0	15 lbs.	14 lbs.
A-3	A-4	20.0	15 lbs.	12.5 lbs.
A-5	A-6	30.0	15 lbs.	12.15 lbs.
B-1	B-2	50.0	15 lbs.	12 lbs.
B-3	B-4	98.0	15 lbs.	12 lbs.
B-1	B-4	135.0	12 lbs.	12 lbs.
C-1	C-2	145.0	8 lbs.	8 lbs.