

Capacity Range:
Varies with gas type and conditions



Atmospheric Nozzles

AN Atmospheric Nozzles were specifically designed for Pilot Torches to have excellent flame retaining characteristics, and capacities almost as great as open pipes. Their turndown characteristics are also good. They may be used separately as nozzles or tips, arranged in groups, or on pipe burners.

How It Works

AN Nozzles are open type burners designed for high capacities with good flame retention characteristics. High capacities are made possible by the large burner area in relation to the supply pipe

size. AN Nozzles are scientifically designed to handle rich gas-air mixtures in high drafts using relatively low mixture pressures as normally developed by gas injectors.

Applications:

- Air heaters
- Bakery ovens
- Drying ovens
- Soft metal melting furnaces
- Specialty heating



Diverse Combustion Technologies. One Reliable Source.

Operating Conditions

Drilled pilot holes around the main burner opening keep the main burner flame from “blowing off” the burner nozzle. The sizes and location of the pilot holes in the AN Nozzles are accurately worked out so that each pilot flame stool is surrounded by secondary air. Increased draft actually improves the piloting effect as evidenced by installations which are operating as high as 0.5” W.C. draft.

AN Nozzles operate with a bushy rich flame handling mixtures carrying 20 to 60% of total combustion air in the mixture. Adequate draft must, of course, be available to supply the additional air as secondary air around the burner nozzle to complete combustion. Because of large port area and rich mixtures, AN Nozzles must be operated at relatively low mixture pressures.

Features	Benefits
Excellent flame retention	Reliable, safe heat
Capacities similar to open pipe	Intense heat where it's needed
Good turndown ratios	Flexible thermal control
Available in 4 pipe sizes, 1/8", 1/4", 3/8", 1/2"	Easily adaptable to common applications
Mounting flexibility, singly or in groups	Customizable to very specific needs



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