



"B" GAS SYSTEM SCHEMATIC
(As shown meets U. L. requirements)

APPLICATION

The "B" gas system is used for on-off firing. It is commonly used on burners in conjunction with the "F1" or "F4B" oil systems for combination gas-oil models.

DESCRIPTION

The "B" system uses a slow opening diaphragm or motorized valve and a quick opening solenoid valve to control gas flow. Gas pressure is adjusted and maintained by a pressure regulator. Combustion air available to the burner is fixed in an open (high fire) position.

OPERATING SEQUENCE

The burner motor starts on a call for heat by the operating control and the pre-purge cycle begins.

At the end of pre-purge, the ignition transformer is energized and the pilot valve opens, igniting the gas pilot.

The flame detector proves the flame and the safety shutoff gas valves open, supplying gas to the orifices at the pressure setting required and the burner ignites.

The ignition transformer and pilot valve are de-energized.

When the operating control is satisfied, the gas valves close and the burner motor is switched off, causing the burner to shut down and await the next call for heat.