

North American 5025 Light Oil Pilots

Sheet 5025-1

5025 Light Oil Pilots are offered in the -1 size in either 1½" threaded or slip-fit style for interrupted pilot service. The pilots produce flames approximately 14" long and are suitable for lighting those larger North American burners which have provision for a 1½" pilot tip. A 10,000 volt center tap transformer is required to provide a constant spark while the oil pilot is operating.

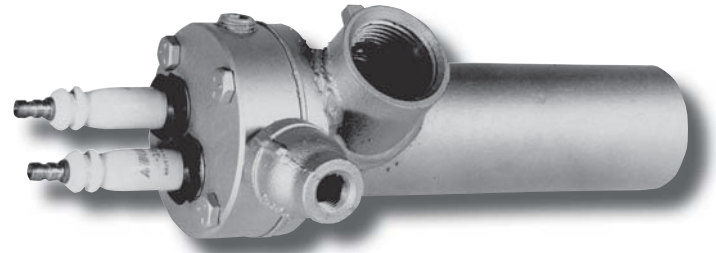
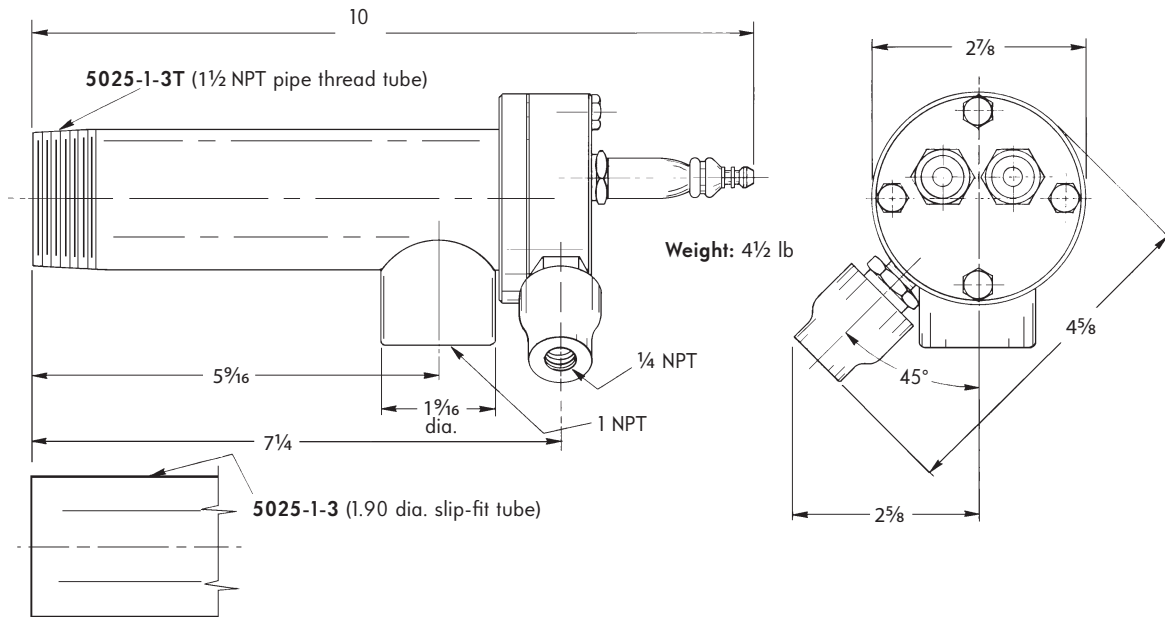
These pilots have 1" air connections and require 650 cfh of air. The 5025-1-3T Threaded Pilot shown in the dimension drawing is intended for industrial applications and has a restrictive orifice in the air passage such that it passes 650 cfh of air at 8 psi.

The 5025-1-3 Slip-fit Pilot shown in the photo is designed for packaged automatic burners with integral fans. It has no air restriction, and will pass the required 650 cfh of air with only 0.2" w.c. pressure drop.

The oil connection is ¼" and the requirement is 0.85 gph at 100 psi. This provides the rich ratio required for pilot operation. Free air must be available in the setting since on-ratio firing would require 1140 cfh of air.

The 8564-2000/X8823 Light Oil Pump with 19 GPH capacity can be used with these pilots. Its ¼ HP motor operates on

DIMENSIONS inches



115/230/1/60. This oil pump is equipped with ½" NPT ports and an internal pressure relief valve. We recommend the use of a system oil pressure regulator (7142-01-70) and a system relief valve (7177-01-150) with a return oil line to the oil reservoir.

Because of the very small orifice in the pilot oil nozzle, there is a final oil filter built into the oil connection of the pilot. However, for good performance it is mandatory to install an additional fine mesh strainer such as the 8558-02-100 in the oil line just upstream of the pilot assembly.

Give special consideration to FM and Industrial Risk Insurers products as 5025 Pilots have not been submitted to UL or FM for approval.

To order, specify: 5025-1-3T Threaded Light Oil Pilot
5025-1-3 Slip-fit Light Oil Pilot