

JM PILOT



COMBUSTION | BURNERS | CONTROLS | IGNITION SYSTEMS



Industrial Burner Pilots

Zeeco designs and manufactures a full line of high-stability pilots to ignite process, power, and other burner technology in utility, industrial, and petrochemical applications. Engineered to withstand high burner temperatures and extreme conditions, ZEECO pilots are available in manual or electric ignition, with and without flame rods, and in variable fuel ranges with a single tip.

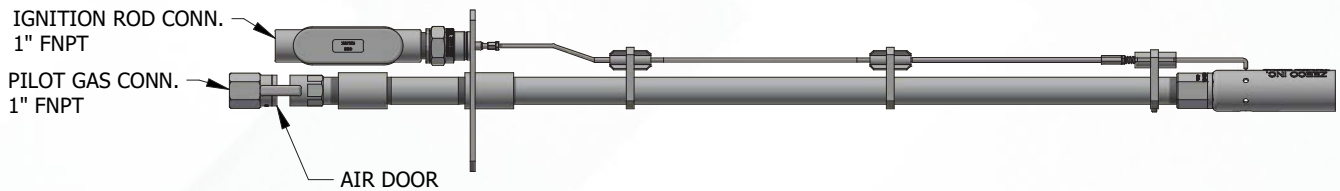
JM Pilot Assembly

The ZEECO JM pilot assembly is a high-stability design designed to operate with a single tip from 100% propane to 90% hydrogen. Reliable pilots are one of the most important features for operator safety. So, the ability to function correctly over such a wide range of fuels with a single pilot tip without flame issues sets the JM design apart from other manual ignition pilot designs. The pilot functions in wide ranges of draft conditions, essential during the most critical furnace start-up and shutdown periods. The design can be used as either a continuous pilot or as an intermittent pilot, which is shut off after the operator has verified a stable burner flame.

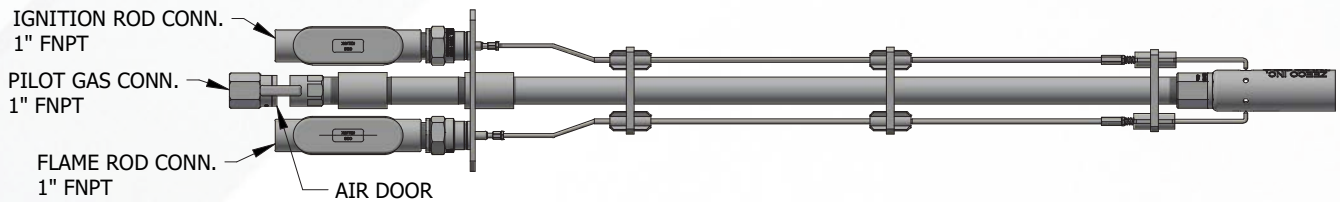
JM-1S Manual Ignition Pilot



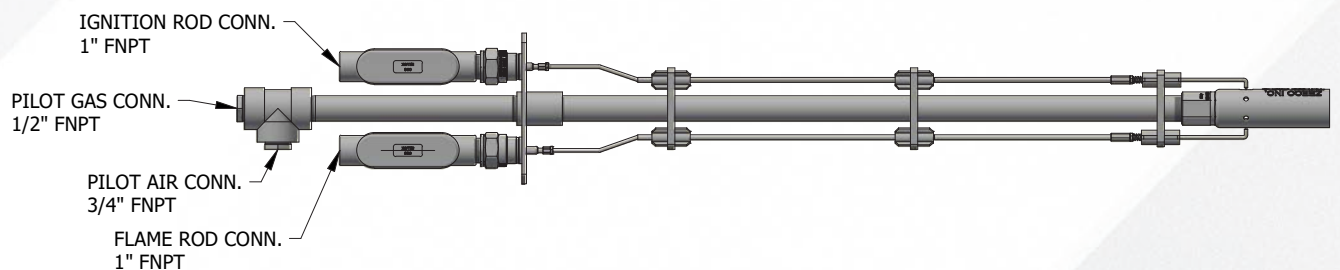
JM-1S-E Electric Ignition Pilot



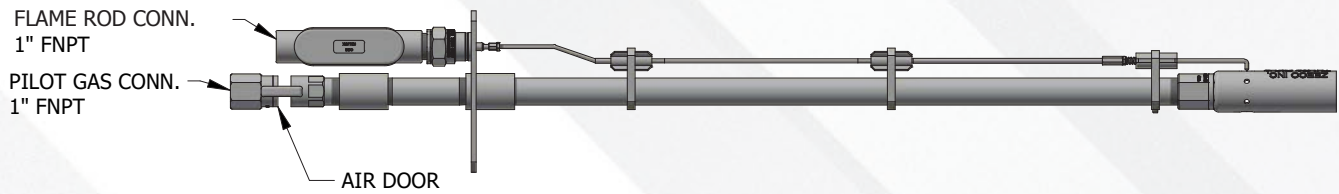
JM-1S-EF Electric Ignition Pilot Assembly with Flame Rod



JM-1S-EF Electric Ignition and Detection Pilot (Forced Draft)

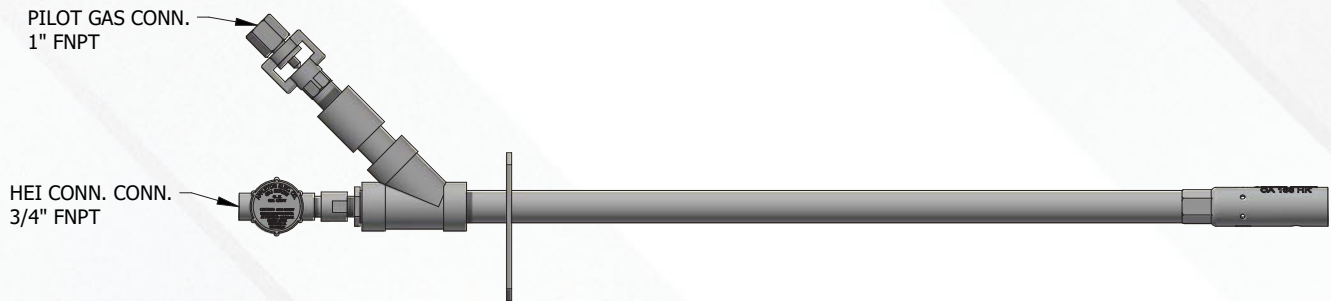


JM-1S-F Pilot with Flame Detection



JM-1S-E - HEI High Stability Pilots

The JM-1S-E - HEI (High Energy Ignition) System incorporates an ignition module rated at 2 joules (other energy ratings available on request) for superior ignition characteristics. This technology allows the pilot to be ignited even when the furnace is purged with steam, or there is soot/water build-up on the pilot tip. Since the ignition rod is enclosed within the pilot, it is protected from the environment and able to function in conditions that caused problems for pilots with ignition systems in the past. The robust two-joule HEI system also gives peace of mind that the pilot can be ignited even in extreme conditions.



Pilot Design Information

Pilot Model	JM-1S	JM-1S-E	JM-1S-EF	JM-1S-EF	JM-1S-F	JM-1S-E - HEI
Pilot Ignition Method	Manual Ignition	High Voltage	Electric Ignition with Flame Rod	High Voltage	Manual	Electric Ignition
Pilot Heat Release	90,000 Btu/hr (99 SCFH) @ 10 psig with natural gas					
Pilot Air Required	N/A	N/A	N/A	1000 SCFH air @ 90,000 Btu/hr with natural gas	N/A	N/A
Pilot Operating Pressure Range	5 psig to 15 psig					
Pilot Fuel Range with Single Tip	100% propane to 90% hydrogen					
Pilot Tip Material	HK or 310 SS					
Pilot Flame Shield	HK or 310 SS					
Pilot Spud	304SS					
Pilot Mixer Material	304SS (Optional 316L)					
Pilot Riser Material	304SS (Optional or 316L SS)					
Flame Rod Provided	N/A	N/A	Required	Required	Required	N/A
Flame Rod Material	N/A	N/A	Kanthal	Kanthal	Kanthal	N/A
Ignition Rod Provided	N/A	Required	Required	Required	N/A	Required
Ignition Rod Material	N/A	Kanthal	Kanthal	Kanthal	N/A	Various Materials
Ignition Requirements	N/A	6,000 Volts @ 160 VA	6,000 Volts @ 160 VA	6,000 Volts @ 160 VA	N/A	2 joules



The Zeeco Difference

By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion and environmental solutions. We are a privately held company whose ownership stays highly involved in daily operations, with upper management comprised of the world's leading combustion experts.

When you call Zeeco, we answer. When you make a request, you get a quick, efficient response. We are lean and efficient, able to make decisions quickly, without bureaucracy and red tape. Our sales, engineering, and purchasing groups work hand-in-hand to deliver highly competitive quotes and heroic turnaround times. We stand ready and willing to travel anywhere in the world to discuss upcoming projects firsthand, and to ensure that every existing project runs seamlessly.



Visit zeeco.com/contact for additional Global Location contact information



Choose to work with our dedicated, flexible, and innovative team, and you won't be disappointed. Call or email us today to request a quote or to learn more about our proprietary combustion systems.

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