

DPIR Piezo Crystal Ignition System (PCIS)



Above: Custom PCIS for the Derwent Burner.

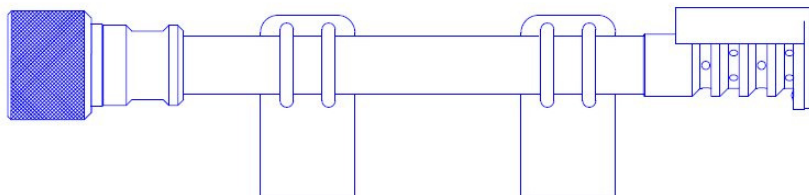
Description

DPIR's air actuated PCIS comprises of an air operated hammer which strikes an ignition cartridge containing a Piezo crystal, this action produces a high voltage spark.

The spark ignites the stoichiometric air / propane mixture induced into the combustion tube, which in turn produces a pilot flame to atmosphere, consuming 0.5 kg of propane per hour.

The pilot flame on the burner pilot subsequently ignites gas jets which are directed at the burner nozzles.

Below: Combustion tube for a gas flare, with water shield.





Instrument air is required to activate the hammer, which is remotely adjustable via a regulator, and gives various spark discharge cycles dependant on the air pressure (typical crystal life is 90,000 cycles) The air hammer motor has an operating range of up to 300° Celsius, and all components are corrosion proof. Spare ignition cartridges are supplied with each unit, allowing changing of the crystal in a few minutes.

For current prices and availability contact : sales@dpir-ltd.com

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