

SERVICE BULLETIN

ACCEPTABLE INLET GAS PRESSURE DROP @ IGNITION ALL BOILERS

We have seen a reoccurring trend of large gas pressure drops at ignition. This will cause, but is not limited to: ignition failures, flame failures, or replacement of a gas valve when the valve is good.

Acceptable inlet gas pressure drop is no more than 2"wc @ ignition.

This is not guaranteed that the boiler will operate properly within this range. Other influences on the boiler such as, but not limited to: exhaust, combustion air, regulator venting, cleanliness of the burner/heat exchanger, spark gap, igniter/ground rod age, combustion adjustment will have an effect on a proper smooth ignition.

Variables that may be causing the drop (not an exhaustive list, but the most common) - gas line size undersized (refer to charts in the manual), 5# or 2# step down regulator spring and/or orifice sizing, inlet gas pressure to the step down regulator is lower than design selection range, a single 5# or 2# step down regulator not properly sized for all attached appliances, Regulator vent line not sized large enough, cleanliness of the Dungs gas valve filter, improper regulator vent line termination leading to blockage from water or snow or restriction of the vent line (no screen to keep mud wasps or other bees out).

The Dungs gas valves that we use on most of our boilers have a filter on the inlet. Use the test port on the main body of the gas valve to monitor the inlet gas pressure. If a dirty gas valve filter is suspected or encountered see the Service Bulletin on Dungs Gas valve filters.

Any of the above or a combination of the above may cause issues such as, but not limited to: Ignition failure, flame failure, sooting, compromised burners, or delayed / loud ignitions.

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