

# MODEL HFI PURGE GAS CONTROL STATION

For use with **CLAUStemp Model HIR**  
Claus Thermal Reaction Furnace Infrared Pyrometer

## FEATURES

- Accurate continuous control of purge flow rate
- Insures long term temperature measurement reliability by sweeping dust and ash from the pyrometer lens window
- Corrosion resistant, suitable for Sulfur Unit environment
- Available in all stainless steel (NACE compliant)
- Mounts on vertical surface or 2" pipe stand
- Simple, easy installation

## APPLICATION

The **Model HFI** Purge Gas Control Station is designed for use with the Delta Controls **Model HIR** Claus Thermal Reaction Furnace Infrared Pyrometer. The **HFI** purge control provides the correct purge flow rate regardless of changes in the gas supply pressure. The constant controlled purge flow prevents dust and ash from clinging to the lens window.

Controlling the flow rate also insures that the Model HIR's unique purge pre-heating system provides the necessary flow to keep contaminants from the lens while insuring that sufficient heat is applied to the purge gas to prevent cooling the pyrometer's lens window. Should the lens window be permitted to cool, reaction gases would slowly condense onto the lens glass surface. The resulting sulfur film would, over time, begin to obscure the transmission of IR energy to the sensor causing inaccuracy.



## SPECIFICATIONS

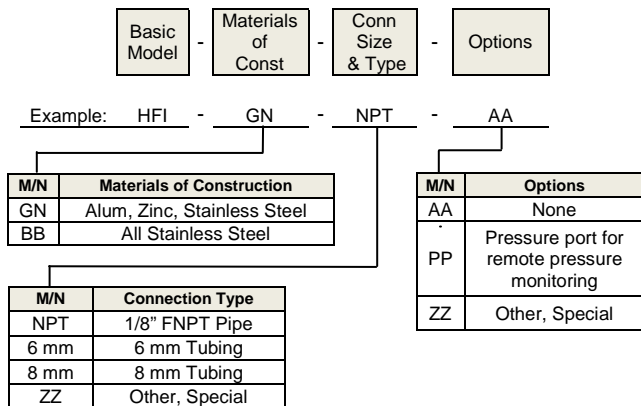
Flow Range	4-38 lpm (standard)
Pressure Indicator:	2.5"Ø; 0-60 PSIG (0-4 bar)
Pressure Control Range:	2-50 PSIG (0.1 – 3.5 bar)
Filter:	5 micron sintered polypropylene
Filter Drain:	Manual valve

Materials of Construction:	
Flow Meter body:	Stainless Steel
Pressure Regulator Body:	Stainless Steel
Pressure Gauge:	Stainless Steel
Connection Fittings:	Stainless Steel
Panel, and Mounting Hardware:	Stainless Steel

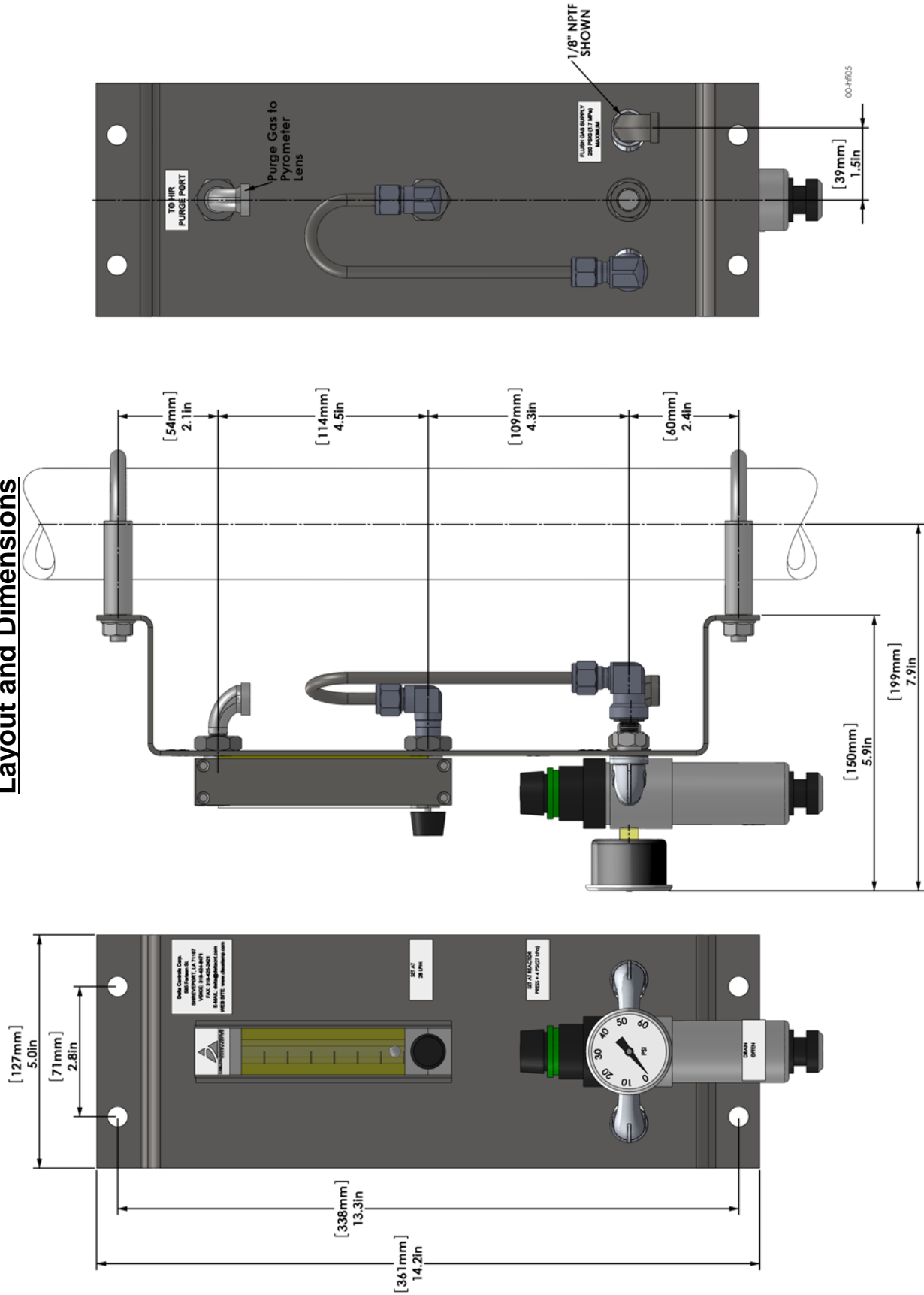
Connection Fittings: 1/8" NPTF  
Other sizes and types available

Supply Pressure: 25-250 PSIG (1.75-17 bar)  
Supply Gas: Clean dry air or nitrogen  
(nitrogen recommended for Claus service)

## MODEL NUMBERING SYSTEM



# Model HFI Flush Gas Control Station Layout and Dimensions



**Field Connections:** To facilitate installation, the piping or tubing may arrive at the HFI panel horizontally (from the right and/or left), vertically (from above or below) or any combination of these directions. All connection fittings may be rotated ±200°.



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