

## Emissions Sampling Hose Part Number Guide

Hose Type	Hose Length	Sample Tube Mat'l	Tube OD / Tube ID	Configuration Code
CGH IGH DGH	Specify in Inches	T - PFA Teflon S - 316 S.S.	4/2    1/4" x 1/8" 4/3    1/4" x 3/16" 6/4    3/8" x 1/4" 6/5    3/8" x 5/16" 8/4    1/2" x 1/4" 8/6    1/2" x 3/8"	See below

**CGH-Series Hoses** - Used for Diesel Engine Certification and Certified On-Road Testing. Hose tolerances as tight as +/-6 C. Operates at 200 C. Requires a temperature controller.

**IGH-Series Hoses** - Used for Diesel Engine Development and Gasoline Engine Testing and Certification. An economical alternative to the CGH Series Hose tolerances as tight as +/-11 C. Operates at 200 C. Requires a temperature controller.

**DGH-Series Hoses** - Used for sample maintenance over Dew Point. Used extensively in process & stack monitoring; gasoline engine development. This hose may be either controller driven or self-limiting.

**Configuration Code** - The configuration code at the end our part number(s) refer to your individual design criteria. Information covered in the Configuration Code may include thermocouple or RTD type, exterior hose sleeve and environmental conditions; operation voltage, etc. The Configuration Code also covers common options such as Replaceable Sample Tube, Over-Temperature Protection, R.F. Shielded Thermocouple Wire, Messenger Wires for remote control of upstream devices, etc.

**Example Part Number: IGH-240-T-6/5-A19** = IGH Series Hose, **240** (inches or 20 ft) long, **T** for Teflon Core; **6/5** for 3/8" OD x 5/16" ID. Config Code (**A19**) denotes environmentally sealed ends, three thermocouples inside the hose, 42 watts/ft for high flow application.

Of course, we will customize our products to your exact specifications.

### Common Options

**Re-Tube:** Replaceable Sample Tube. This feature allows the easy removal and replacement of the sample tube. (Re-Tube kits are available from the factory.)

**Over-Temperature Protection:** Built in thermal switch(es) which will open if the hose exceeds its maximum operational temperature. Switch(es) will close again once the hose has cooled down to a safe range.

**Exteriors:** Atmo-Seal. Inc., offers a variety of exterior sleeves to suit your application and environment. We offer exteriors that are chemical and oil resistant; suited for outdoor use or hazardous locations; lightweight and flexible; extremely high-temperature for direct splatter of molten metals; construction that meets FDA requirements; silicone-free designs for paint., Etc. Please contact the factory for more information.

**Messenger Wires:** Feed through signal and/or heater wires to allow for controlling solenoids, heaters, temperature monitors, etc., via internal cables built into your hose.

**Multi-Tubes:** Multiple heated and/or non-heated tubes may be incorporated into one heated hose for sampling from multiple points; feeding multiple analyzers; or providing purge or calibration gases.