

Enduro-Flex Dispense Hoses

Heated Hose for
 Hot Melt Plastics, Road Tar and Asphalt, Hot Wax, Petrochemicals, Potable and Non-Potable Water, Ship-To-Ship and Ship-To-Shore, Food and Dairy, Viscosity Control, Freeze Protection, Pharma, Spray Foam, Robotic Applications... and more

Atmo-Seal Engineering, Inc.(tm) is committed to providing high quality heated sample lines to fit your specific needs. You will find ASE Heated Hoses on Military Bases, Factory Floors, Road Patching Trucks, Rooftop Coating Machines, Industrial Bakeries, Candle Filling Equipment, Aerospace Molding Machinery, Spray Foam Applicators, Chocolate Molding Machines, and many other places to numerous to mention. Regardless of your application, ASE has what you need or will invent it for you!



Dispense Heated Hose

- Choice of AC 50-60 HZ or DC operation in a wide range of voltages
- Choice of Thermocouple, RTD, Internal Thermostat or other sensors
- Choice of Teflon, Stainless Steel or other Internal wetted tubes
- Super-flexible design
- 1/4" to 8" ID Transfer Tubes
- Optional Exteriors to match your needs and operational conditions.

Any level of customization is available for your requirements.

Tough, Accurate Heated Hoses

At Atmo-Seal, Inc., we know that a heated hose gets stretched, dropped and slammed every day. Our Enduro-Flex Heated Dispense Hoses are designed for their environment: Factory Floors, Outdoor Petrochemical Plants, Dairies & Bakeries, Pharmaceutical Plants, Injection Mold Shops and Paint Booths, Packaging Facilities, Shipyards, Even the Antarctic. Our staff has been designing process heated hoses for over 25 years.

Our heated hoses all feature light-weight designs, high-quality end treatments and tough inner cores. Our use of high quality materials and meticulous construction techniques produce the most reliable heated hose on the market today.

We offer a choice of durable exteriors to make your heated hose suitable for the most extreme environments. Our exteriors are suitable for direct burial, outdoor use, hazardous locations, extreme cold, deserts and the tundra. Wherever you need a tough, accurate heated hose, we will go there.

Our heated hoses carry an 18 month warranty, too!

And, of course, your heated hose will have the Most Accurate and Verifiable Temperature Resolutions in the Industry! With over 25 years of Precision Hose Design Experience, our staff has the technical ability to meet all of your specifications.

At Atmo-Seal we know that our continued success depends on your satisfaction!.



Haz-Flex Heated Dispense Hoses

Heated Hose for Hazardous Conditions
Class 1-3 Areas, Class A-F Environments
Class X & Z Purge Systems

Atmo-Seal Engineering, Inc.^(tm) is committed to providing high quality and safe heated hoses for your Classified and Explosive-Environment locations. We fully understand the codes, liabilities and requirements for designing and manufacturing heated devices used near volatile substances.

You can trust ASE to provide safe and compliant products for these conditions, now and in the future.



Classified Location Heated and Sampling Hose

- Your choice of voltages, AC or DC
- Choice of sensors or internal controls
- Choice of Teflon, SS or other wetted tubes
- Braided for High Pressure as needed
- Super-flexible design
- Minimal Outside Diameter
- 1/4" to 4" Diameter hoses available

Optional Exteriors to match your needs and operational environments. Lengths from One to Two-Hundred-Plus feet

Safe, Tough Heated Hose

Not all heated hose companies out there are fully knowledgeable or capable of producing a true Hazardous Location Heated Hose. Heater types, environmental conditions, related components and even the media in and around the heated hose affect its design and rating. We know, our staff has been designing heated hoses for over 25 years.

At Atmo-Seal, Inc., we know the complexities of designing a true, Classified Location Heated Hose. Our hoses are fully compliant with the National Electric Code and the CSA Standards. Components are certified by nationally recognized underwriters where applicable. Each hose may come with an individual certificate of compliance, if needed.

Our hoses are thin, flexible and suited for all of your dispense needs, and they carry an 18 month limited warranty, too!

Options

As always, Atmo-Seal, Inc., will customize your hose to your exacting specifications. Let us be your personal "Think Tank."

At Atmo-Seal, Inc., We know that our continued success depends on your satisfaction!

Enduro-Flex Dispense Hose Part Number Guide

Hose Type	Hose Length	Sample Tube Mat'l	Nominal Inside Diameter	Configuration Code
BHH TDH HWX HDH HCZ BHF FHD HPH HCP	Specify in Inches	T PTFE Teflon S - Stainless Steel V-Viton R-Buna S- Silicone C - Copper CS - Corrug. SS	X/2 1/8" X/3 3/16" X/4 1/4" X/5 5/16" X/6 3/8" X/7 7/16" X/8 1/2" Sized in 1/16" Increments To 24" dia	See below

- BHH-Series Hoses** - Used for most standard dispense applications. Hot Melt, Plastics, Adhesives & Sealers.
- TDH-Series Hoses** - Tar and Sealant dispense on mobil patching equipment and sealer systems.
- HWX-Series Hoses** - Hot wax, molding, candle and low melt products.
- HDH-Series Hoses** - Loading docs/oil platforms, rough service conditions, petrochemicals, potable water.
- HCZ-Series Hoses** - XP and Classified Conditions, C1D1, C1D2, C2D2, Class X Purge, etc., (see sheet)
- BHF-Series Hoses** - FDA Approved for viscosity control and dispense
- FHD-Series Hoses** - Pharmaceutical products
- HPH-Series Hoses** - Dual and Single core hoses for Polyurethane and Spray Foam
- HCP-Series Hoses** - Robotics and extreme & rapid flexing
- HCZ-Series Hoses** - Designed for Hazardous and Classified Conditions

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 pressure, Over-Temperature Protection, R.F. Shielded Thermocouple Wire, Messenger Wires for remote control of

Example Part Number: BHH-240-T-X/6-D53 = BHH Series Hose, **240** (inches or 20 ft) long, **T** for Teflon Core; **X/6** for 3/8" ID, Config Code (**D53**) denotes K-Type thermocouples, 450 f operation, 120 VAC, 300 PSI

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

Common Options

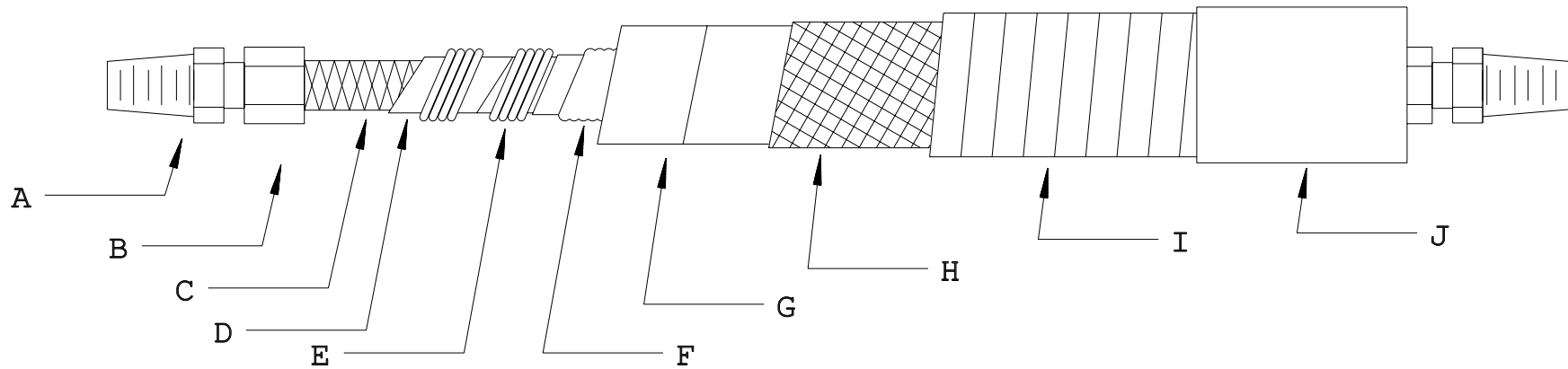
Re-Tube: Replaceable Sample Tube. This feature allows the easy removal and replacement of the sample tube. (Re-Tube kits are available from the factory. Low Pressure Hoses only for this option.)

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.

Typical Atmo-Seal, Inc., heated hose cut-away view



- A - ADAPTER (PER CUSTOMER SPEC)
- B - HOSE END FITTING
- C - INTERNAL MEDIA TUBE (VARIOUS MATERIALS PER CUSTOMER SPECS)
- D - SILICONE LAYER
- E - HI-TEMP ENCAPSULATED HEATER ELEMENTS
- F - SECONDARY LAYER OF SILICONE

- G - MULTIPLE LAYERS OF HI-TEMP INSULATION
- H - PROTECTIVE MESH/SLEEVE
- I - OPTIONAL EXTERIOR SLEEVES
- J - HEAVY-DUTY END CAP

NOTE: HOSES USED OUTDOOR WILL COME WITH A SEALED END CAP AND WATERTIGHT SLEEVE