

HEP CO

HEAT EXCHANGER PRODUCTS CORPORATION

MANUFACTURING QUALITY CONDENSER AND
HEAT EXCHANGER TUBE PLUG PRODUCTS



HEAT EXCHANGER PRODUCTS CORPORATION

Heat Exchanger Products Corporation, (HEPCO) manufactures the most reliable Silicone Tube Plug on the market today for several industries including; Electrical Generating Plants both Nuclear and Fossil, Pulp and Paper and Petro-Chemical to name a few.

These silicone tube plugs are compounded of extruded vulcanized silicone rubber and provide long life at high temperatures and an almost unlimited life span at normal operating temperatures. HEPCO silicone tube plugs are ideal for use in fresh or salt water applications and can be used as a temporary solution or to seal a tube permanently. More importantly, [HEPCO plugs will not damage your tubes](#). These plugs install easily, extract easily and are designed to conform to almost any inside tube surface, including coated surfaces.



We manufacture these plugs in double and single sizes to fit 5/8" to 1 1/4" size tubes. The plug consists of a metal nut and bolt, a durable, heat resistant silicone and a washer and collar system made from a non-water absorbing plastic.

HEPCO plugs are manufactured in Hingham, Massachusetts and use quality materials produced in the United States.



HEPCO is a Certified
Woman-Owned Small Business

PLUG AND TRACK TUBE MARKERS

“Plug and Track” Tube Indicator Plugs

This color coded system of marking tubes enables plant personnel, as well as their subcontractors (i.e. eddy current test firms), to visually detect patterns of tube failures within a heat exchanger. They are easily extracted with no damage to tube or tubesheet, to allow for retesting of the tubes during future outages. The tubes can then be easily reclassified and help predict rates of future failures.



CHILLER TUBE

This is a plug used for chiller tubes that are between our plug sizes for 5/8” to 3/4” 18 to 25 BWG tubes. These will fit comfortably in a 3/4” 16 BWG or .620 tube. These plugs are designed to work the same way our standard plugs work.



TEST PLUGS

Our Hepco test plugs are economical for the purpose of tube testing and will outperform all other similar black neoprene plugs due to their flexible nature. The silicone will allow for maximum inside tube flexibility through temperatures, solutions and cycling.

These are available as a wing nut hand tighten version or a hex wrench tighten version.



- For temporary tube testing purposes.
- Effectively seals off tubes for Helium Leak testing.
- Easy to install and extract after testing is complete.
- Can be re-used with multiple heat exchangers and condensers.

INTERNAL TUBE PLUGS

Our Internal Plugs are made with the same materials as our regular condenser/heat exchanger plugs, with the exception of NOT having a flanged collar to stop them from going inside the tube.

These plugs can be fully inserted inside the tube and tightened to stay in place. They can be removed or left in as a permanent seal and even coated or epoxied over. Made in either 316 or 304 Stainless Steel, Brass, Titanium or Ultem 2300 nut and bolt assembly. We manufacture the washers from a non-water soluble, high heat plastic called Hytrel and the Silicone parts are made from vulcanized silicone rubber.



HIGH PRESSURE PLUGS



These High Pressure Tube Plugs (Pop-A-Plug P2) provide a permanent mechanical seal for leaking heat exchanger tubes without explosives or hot work. Designed to maintain a helium leak-tight seal under extreme thermal and pressure cycling (up to 7000psi).

CUSTOM SOLUTIONS

HEPCO can manufacture custom plugs per your requirements. Please call or email us with your criteria and we will work with you to come up with the perfect plug solution.



MATERIALS OFFERED

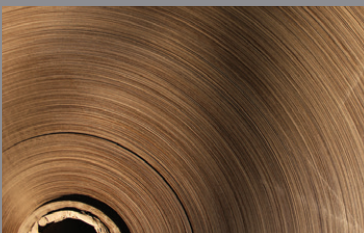
Choose from four nut and bolt materials for expanding the silicone plug



The most important thing to know about tube plugs is - material does make a difference. We use a high grade silicone that can withstand temperatures above 500°F to make our expandable silicone tube plugs, as well as non-water soluble Hytrel parts for washer and collar construction. These materials coupled with our Brass, Stainless Steel, Titanium and High Performance Non-metallic material (Ultem 2300), make up the highest quality low-temp, low-pressure (up to 200psi) plug on the market that will **not** damage the tube and tube sheet by being hammered in place. They can also be removed when necessary without expensive drilling or extended downtime.

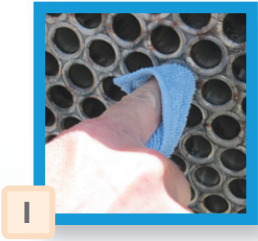
These plugs are offered in either a **single** size (one silicone part) for inside tube pressures **60 psi and below**, or a **double** size (two silicone parts) for inside tube pressures **up to 200 psi**.

Plug Part	Description in .001				Dimensions
5/8"	fits	.527	-	.595 I.D.	fits 5/8" tube from 18 to 25 BWG
3/4"	fits	.652	-	.713 I.D.	fits 3/4" tube from 18 to 25 BWG
7/8"	fits	.777	-	.837 I.D.	fits 7/8" tube from 18 to 25 BWG
1"	fits	.902	-	.962 I.D.	fits 1" tube from 18 to 25 BWG
1 1/8"	fits	1.027	-	1.087 I.D.	fits 1 1/8" tube from 18 to 25 BWG
1 1/4"	fits	1.152	-	1.212 I.D.	fits 1 1/4" tube from 18 to 25 BWG



EASY INSTALLATION

To install HEPCO silicone condenser tube plugs:



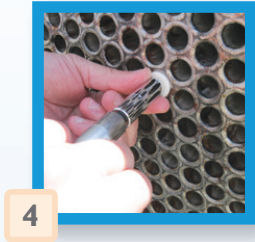
1 Make sure the tube is free of excess debris at the opening. (wipe with rag if necessary)



2 You may need to tighten plug slightly before installing to get a snug fit. Alternatively, you may need to loosen nut and stretch silicone to fit.



3 Insert tube plug all the way into tube until the collar comes to rest on the tube sheet.



4 Holding the collar in place, use HEPCO pre-set torque wrench and torque down hex head nut.



5 Plug is securely fastened when torque wrench clicks once.

Notes:

- For proper installation of our 5/8" and 3/4" plugs, use our small torque wrench with 1/4" x 20 drive pre-set to 17 in. lbs.
- For proper installation of our 7/8" through 1 1/4" size plugs, use our large torque wrench with 9 x 16 drive pre-set to 33 in. lbs.



We offer two sizes of **T-handle pre-set torque wrench sets**.

Small: 1/4" x 20 drive for 5/8" and 3/4", pre-set to 17 in. lbs.

Large: 9 x 16 drive for 7/8", 1 1/8" and 1 1/4", pre-set to 33 in. lbs.

These torque wrenches are simple to use and eliminate any guesswork when securing our silicone tube plugs by clicking in place when correct torque is achieved.

HEPCO

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Visit us on the web to learn more about our products and services. Our website is available in multiple languages.

www.heatexchangerproducts.com



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