

MALCOEDGE™

PART NO: NPT NITROGEN PURGE TOOL

When performing repairs on refrigeration or air conditioning piping, it is important to purge the inside of the pipe with nitrogen to prevent oxidation in the joint area, both before and during the brazing process. The MalcoEdge NPT offers a specially designed solution that makes this task efficient and straightforward.

This tool allows you to initiate the PURGE function at a pre-set regulated flow rate. Then, with a simple turn of the control knob, you can switch to the BRAZE function, which adjusts the flow rate to a level ideal for the brazing process. This feature helps minimize nitrogen usage while also preventing air from entering the system during the repair.

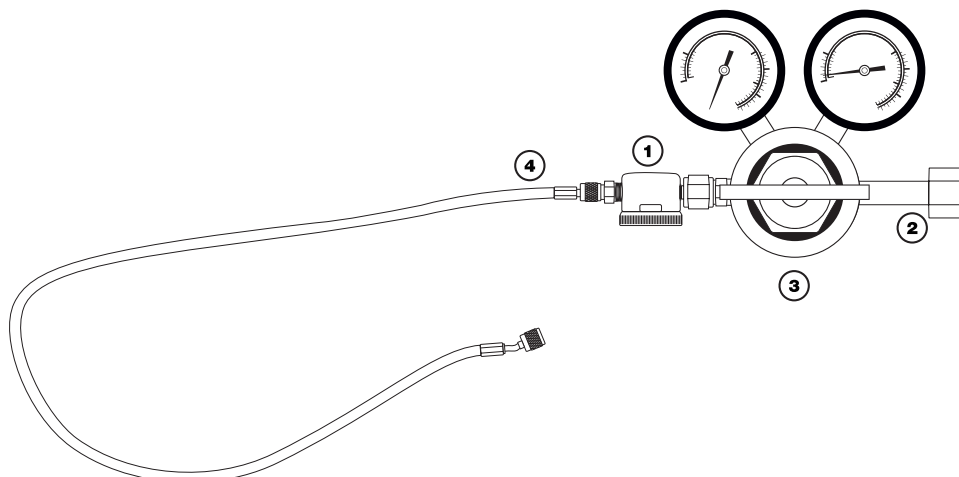
The tool is designed to attach to a standard nitrogen regulator and comes equipped with a 1/4 SAE flare outlet connection, which is compatible with standard HVAC hoses.

NITROGEN PURGE TOOL

NPT



ASSEMBLY



- ① Attach the purge and braze device to the nitrogen regulator outlet.
- ② Before turning on the cylinder valve, connect the regulator to the valve and securely tighten it.
- ③ Turn the regulator control all the way out so no pressure is available to the outlet, now you can safely open the cylinder. Note: Maximum working pressure rating for the NPT is 50psi (350Pa)
- ④ Connect the hose, using the 1/4 SAE flare fittings, to the outlet of the purge and braze device.

OPERATION



OFF

Once assembly, shown above, is complete, attach hose to service port. With the control knob of the NPT set to “OFF”, slowly open the nitrogen cylinder valve. Slowly turn the nitrogen regulator to supply pressure to the NPT, 50psi (350kPa) max.



PURGE

Before starting the brazing procedure, allow the internal piping system to be purged of air for several minutes to ensure all air is removed. Turn the control knob to the “PURGE” setting for this step.



BRAZE

After purging, to maintain an inert environment inside the piping, switch the purge/braze control knob to the “BRAZE” setting, which will regulate a steady flow of nitrogen at 6.5 SCFH. You are now ready to begin brazing.

Once the brazing process is finished, remove the purge device, close the cylinder valve, and release any remaining gas. The equipment can then be disassembled and stored.

WARNINGS

Only qualified persons should use this equipment.



SPECIFICATIONS

Materials of construction	
Body	Aluminum
Inlet, outlet and internals	Brass
Gas service	N ₂
Performance	50 psi
Maximum working pressure	PURGE: 32.5 SCFH ±20%
Outlet flow rates	BRAZE: 6.5 SCFH ±20%
Operating temperature	-5F to +120F
Weight	4 oz.
Dimensions	(L) 3.1" X (W) 1.5" X (H) 1.2"
Markings	MalcoEdge Maximum working pressure Flow direction
Warranty	Engineered for Superior Performance / Limited Lifetime Warranty
Country of origin	Taiwan



MALCO TOOLS, INC.
14080 HWY 55 NW, Annandale, MN 55302
malcotools.com



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