

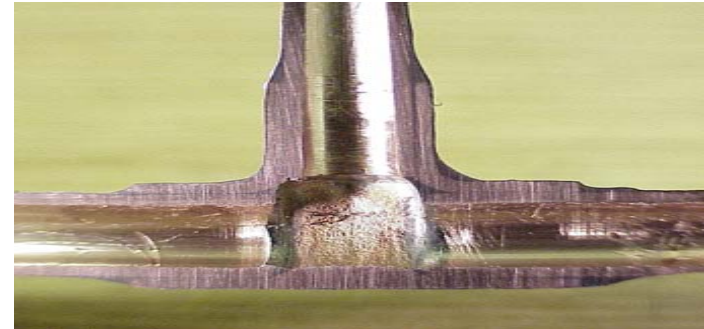
VN Series

Nitrogen Purging / Testing Regulator for HVAC

The purpose of the nitrogen is to displace any oxygen in the lines and minimize the formation of oxides. As the AC unit is put into service, these oxide flakes dislodge and can become trapped in the TXV or metering orifice, leading to premature compressor failure.



BRAZED WITHOUT NITROGEN*



BRAZED WITH NITROGEN

**Manufacturers may not honor a warranty if the compressor failure is a result of improper brazing procedure.*

For more details on how to order or become a distributor call 866.304.8326



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Watch the video

Brazing with Nitrogen vs. Brazing without Nitrogen



<http://www.youtube.com/watch?v=3uP-eb8Zz08>

Disclaimer: Video not produced or endorsed by Western Enterprises

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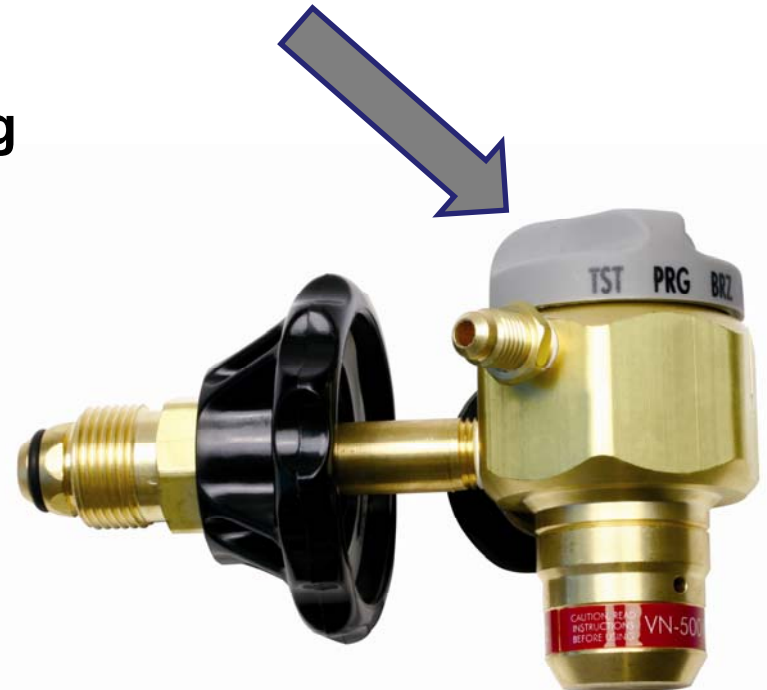
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Preset – Click Style Regulator

Large Flow Selector Knob

- 1) Preset “Purge” Setting- **Low flow to purge line set prior to brazing**
 - **25 – 35 CFH**
- 2) Preset “Braze” Setting- **Very low flow used while brazing to keep air out**
 - **3-6 CFH**
- 3) Preset “Test” Pressure Setting
 - 2 models available

250 PSI or 500 PSI



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Hand-Tight Cylinder Connection

CGA-580 Nut and Nipple



- No more need to carry wrenches
- Securely connects the regulator to cylinder with a simple turn of the hand-tight
- Secure, leak free o-ring seal
- Includes wrench flats if customers want to use a wrench
- Gauge or outlet fitting may be positioned where it is the most convenient for the user
- Fits any CGA-580 nitrogen cylinder

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Cylinder Contents Gauge

Protected and Compact



- Compact gauge design
- Rubber boot protects against damage when transporting or during use
- Low profile design fits close to the regulator
- Easy to read contents dial with color coded sections

Green = Full

Red = Empty

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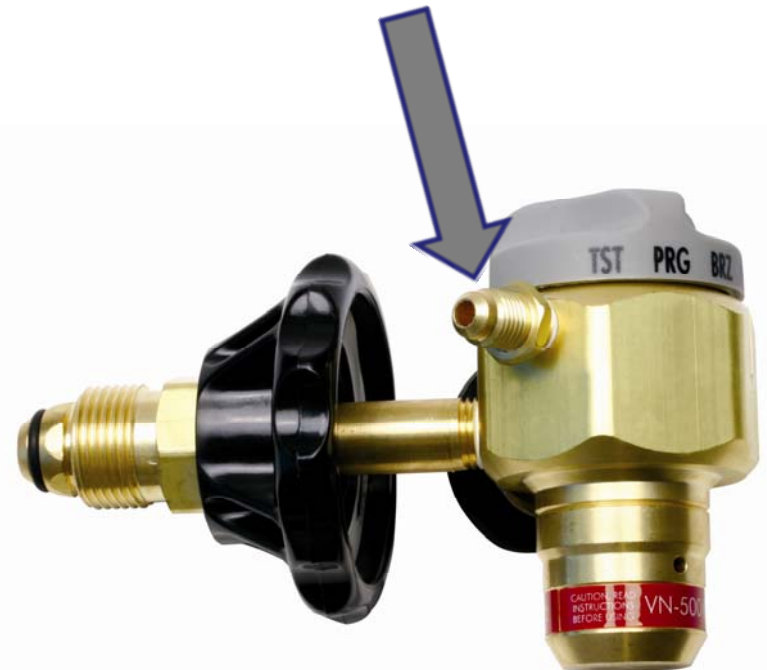


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Additional Features

Made in the USA

- Compact, all brass bar stock body.
- 1/4" SAE Male Flare Fitting Outlet (CGA-165) with cap to prevent damage.
- One year warranty
- Clamshell Packaging
- Made in the USA



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Saves Time

Preset Regulator and Flowmeter in One

Preset Flows and Pressure –
No Adjusting regulator for “just the right flow”

Quickly and easily check the color coded
cylinder contents gauge before getting to the
job site



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Saves Time

Preset Regulator and Flowmeter in One

No wrench needed!

No tools required to install on cylinder

Large, easy-to-use “hand-tight CGA-580
cylinder connection



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Saves Money

Preset Regulator and Flowmeter in One

2 Products in 1 –
Replaces one regulator and one flowmeter

Stop wasting gas –
Preset flows so no adjustment needed

No return service calls –
Promotes proper HVAC unit installation procedures

Rugged Design –
Save on repair or replacement costs



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Simple to Operate

Preset Regulator and Flowmeter in One

Eliminates the frustration of setting conventional regulator

Easy to train technicians on the proper use of nitrogen

Consistent procedure yields consistent quality

Available in 2 models:

VN-250 for 250 psi Test Pressure

VN-500 for 500 psi Test Pressure



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Operating Instructions

VN Series Nitrogen Purging – Testing Regulator

- 1) Install on Nitrogen cylinder without the need for tools
- 2) Open cylinder valve
- 3) Rotate knob to the “PRG” position to purge the line-set
- 4) Rotate the knob to “BRZ” position and braze all joints
- 5) Rotate knob to “TST” position to pressure test joints for leaks.
- 6) Rotate knob to “OFF”, close cylinder valve, relief pressure from VN, remove regulator from nitrogen cylinder.



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Operating Instructions

VN Series Nitrogen Purging – Testing Regulator

OFF – No nitrogen flow.

PRG (purge) – After the line set has been dry fitted and is ready to be brazed, remove Schrader valve cores from both lines, connect nitrogen hose to “vapor” line via Schrader valve, open nitrogen cylinder valve, and set the Flow Control knob to PRG to purge the lines of oxygen. Nitrogen is now flowing at 25-35 cubic feet per hour.

Purge Time for 3/8" Liquid / 3/4" Vapor Line Sets		Purge Time for 3/8" Liquid / 7/8" Vapor Line Sets		Purge Time for 3/8" Liquid / 1.25" Vapor Line Sets	
Line Set Length (feet)	Purge (PRG) Time (seconds)	Line Set Length (feet)	Purge (PRG) Time (seconds)	Line Set Length (feet)	Purge (PRG) Time (seconds)
10	7	10	9	10	17
15	10	15	13	15	25
20	14	20	18	20	33
25	17	25	22	25	42
30	21	30	27	30	50
35	24	35	31	35	59
40	28	40	36	40	67
45	31	45	40	45	75

All times are recommended minimums, does not include "A" coil volume

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Operating Instructions

VN Series Nitrogen Purging – Testing Regulator

BRZ (braze) – Once the lines are purged, turn the Flow Control knob to BRZ. Nitrogen is now flowing at 3-6 cubic feet per hour. Braze all joints while nitrogen is flowing.

TST (test) – After all the joints have been brazed, replace the Schrader valve core in the “liquid” line to seal the line, turn the Flow Control knob to the TST position. The line set will pressurize to 250 PSI or 500 PSI. Check all brazed joints for leaks using an approved “leak check” solution or other appropriate test method.

Note: Other methods may be used to detect leaks, i.e., pressure gauge decay or vacuum decay test procedures.

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Standard HVAC Regulators

What are people using now?



Average List Price: \$125 -\$175

Issues with Broken Gauges

Cost to Repair Gauges: \$25-30

Average # of Repairs per Year: 2

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POS Packaging

Designed to be sold from your store shelf



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Promotional Offer

Great counter top display

WHILE SUPPLIES LAST

Buy 5 VN-250 or VN-500 and receive
a **FREE** VC-55 cylinder carrying bag with your order

Over-the-shoulder and hand-grip carrying straps

Front zipper pouch for carrying supplies



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