



# DV-29

## VACUUM GAUGE BLANK-OFF TEST KIT

The DV-29 Vacuum Gauge Blank-off Test Kit works with JB digital vacuum gauges DV-22N, DV-40S, DV-41 and the SH-35N Wireless Digital Gauge for Superheat and Subcooling to create a closed system ideal for checking leaks.

### DV-29 INSTRUCTIONS

Valve position pictured for **Pressure Rise Test**. Valve "A" to vacuum gauge is open and valves from manifold to "B" and "C" are closed. **Before making connection as pictured, close all ball valves before hookup.** **NOTE:** If vacuum gauge has 1/4" male flare, use DV-291 O-ring Swivel Coupler included.

### Leak-Proof Test Unit

Deep vacuum has its own unique properties which require vacuum tight hoses. DV-29, with a flexible metal hose and o-ring seal couplers, is absolutely vacuum tight. The o-ring coupler has a small rubber mass that forms around irregularities in the flare fitting. When the flare is screwed down, you get a metal seat and the o-ring lays around the flare to give a positive seal.

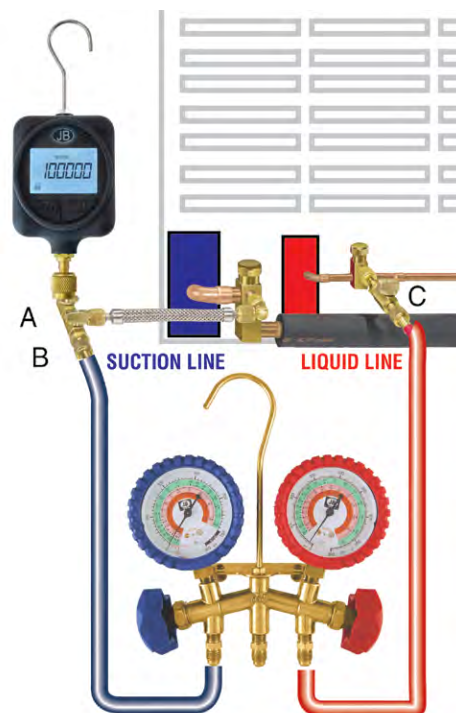
### Pulling a Vacuum

Open all valves and pull a vacuum. When the sensor reads between 300 and 400 microns and only if the compressor is in the vacuum, close valves to the high and low sides of the system. This leaves the valve closest to the micron gauge open. You now have the vacuum gauge measuring the system to check for pressure rise. Wait for at least five to a maximum of 20 minutes to allow system pressure to equalize.

The reading you see at the end of this test will be very close to what you actually have in the system. A rapid rise during this test to atmospheric pressure indicates a leak, while a slower rise to around 1500 microns indicates moisture is present.

**WARNING:** While charging, close valve "A" connecting directly to the vacuum gauge. Most vacuum gauges will not withstand high pressure.

**DV-22N**  
SOLD SEPARATELY

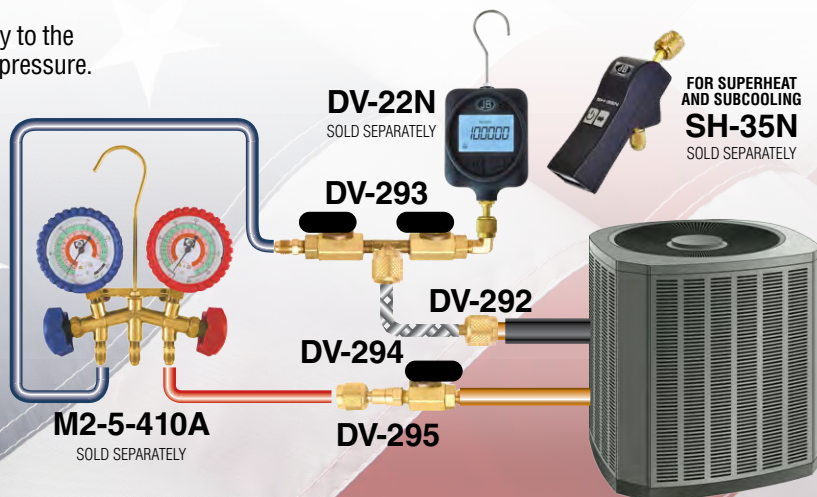


### SUBCOOLING

To charge the system using the subcooling method, reverse the hook-up described.

Close valve "A" during charging and remove the vacuum gauge and attach a superheat gauge (SH-35N). Bleed at quick coupler before charging.

PART NO.	DESCRIPTION
<b>DV-29</b>	Leak-proof micron hook-up test kit, includes: DV-292, DV-293, DV-294, and DV-295
<b>DV-291</b>	Replacement 1/4" SAE swivel coupler (D10244)
<b>DV-292</b>	Replacement 90° male flare with 1/4" o-ring QC
<b>DV-293</b>	Replacement valve assembly 1/4" MFL connector
<b>DV-294</b>	Replacement 10" (25.4 cm) metal hose with o-ring
<b>DV-295</b>	Replacement ball valve with o-ring QC and depressor
<b>P90009</b>	Replacement o-ring (10 pack)



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