

Installation Instructions

Types 858C

Nitrogen Tank Regulators



Description

These regulator assemblies are used to connect a nitrogen gas tank to HELIA® cable or waveguide connectors. Each assembly includes a multistage pressure regulator with high- and low-pressure gauges, 3/8" x 10 ft (3 m) polyethylene tubing and fittings for 1/8" pipe threads, and a gas tank fitting. The Type 858C and 42995 regulators have a CGA580 tank fitting and the Type 858C-3 regulator has a 5/8 BSPP tank fitting. An adaptor, Type 35751 (not included), is available for connecting a CGA580 fitting to a CGA555 fitting.

The first regulator stage reduces tank pressure approximately 95%. It is preset and does not require adjustment in the field. The high-pressure gauge indicates tank pressure from 0 to 4000 psig (27.6 MPa). Nitrogen with a dew point between -650 and -750° F (-53.90° and -59.40° C) is recommended.

The second regulator stage controls reduced tank pressure from 0 to 15 psig (103.4 kPa) according to the position of the outlet pressure adjustment handle. The low-pressure gauge indicates outlet pressure to the cable or waveguide. The recommended operating pressure is 3 psig (20.7 kPa). The 42995 regulator is preset at 10 psig (70 kPa).

A relief valve in the second stage protects the regulator and cable or waveguide system from excess pressure. The valve operates when its inlet pressure exceeds 300 psig (2068 kPa). Some models have an internal relief device that activates at 400 psig (2760 kPa).

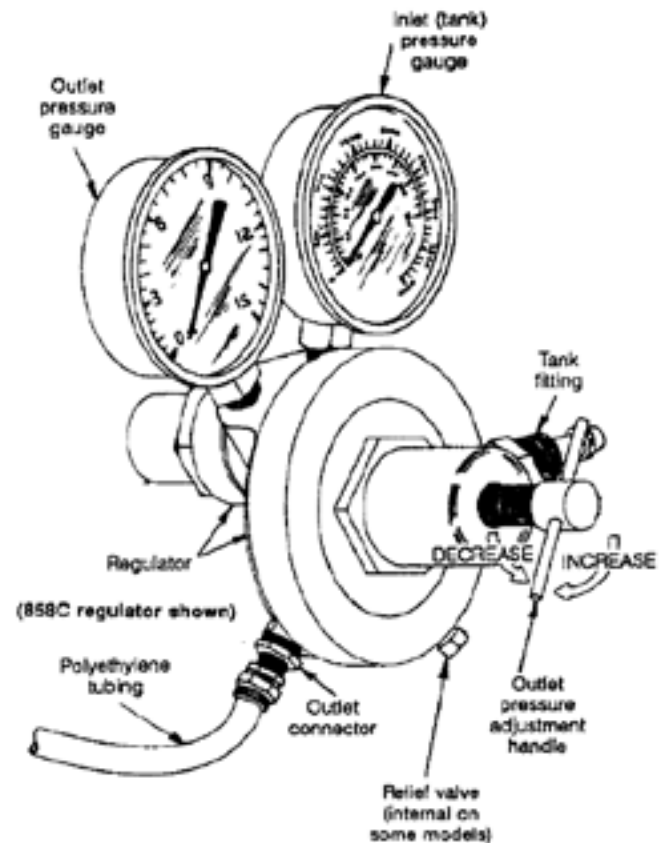
Notice

The installation, maintenance, or removal of antenna systems requires qualified, experienced personnel. Andrew installation instructions have been written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

CommScope disclaims any liability or responsibility for the results of improper or unsafe installation practices.

Read the Following Instructions Thoroughly Before Assembly

1. Close the regulator by rotating the outlet pressure adjustment handle fully counterclockwise.
2. Check the valve outlet fitting of the gas tank to be sure it is clean. Then connect the regulator tank fitting to the tank valve.
3. Connect the polyethylene tubing to the regulator outlet fitting and cable or waveguide connector.



4. Slowly open the tank valve and turn the regulator pressure handle clockwise until a slight amount of outlet pressure is indicated on the gauge. Then adjust the handle for the desired outlet pressure. The outlet pressure is preset at 10 psig (70 kPa) for the 42995 regulator.
5. Apply a soap or leak detector solution to the gas connections to check for leaks. Bubbling indicates leakage.

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