

LANTIRN: Low Altitude
Navigation Targeting
Infra Red for Night



- **Delivers dry nitrogen**
- **Prevents Arcing in Radar Waveguide**
- **Fully automated system**
- **Aircraft Qualified on F16 and F15E**

Application:

The system is designed to inert a traveling waveguide or radome with dry nitrogen gas to prevent electrical arcing at low altitudes.

Features:

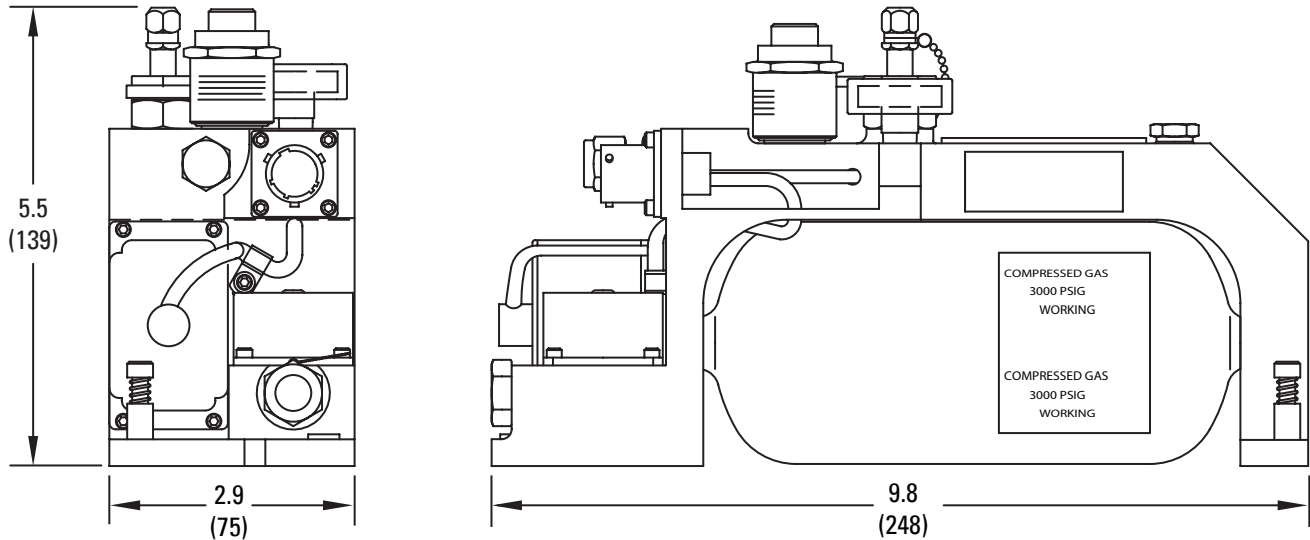
The system consists of a 3,000 psi (207 bar) steel gas vessel manifolded to a pressure regulator with unique control features. The system delivers dry nitrogen via a solenoid valve and absolute pressure regulator. The system also contains a fill valve and pressure gauge. The pressure gauge allows for manual checking, there are two pressure switches that are used to indicate to the pilot when the pressure is in an acceptable range.

The normally closed solenoid valve is activated when 21 VDC is applied and will stay open as long as the voltage is applied. The solenoid will draw no more than 0.5 amps at 28 VDC. The pressure regulator output pressure is 19 psia (1.3 bar) when inlet pressure ranges from 3,000 psia (207 bar) to 100 psia (6.9 bar).

System safety is assured by a pressure relief valve on the high pressure side which provides over pressure protection by venting the pressure vessel at 4,500 psig.

SPECIFICATIONS

LANTIRN
Part Number: B14043



All dimensions in inch (mm)

Specifications:

Medium	Nitrogen	
Inlet Pressure	3,200 psig	(220 bar)
Bottle Pressure	3,000 psig	(207 bar)
Proof Pressure	5,000 psig	(345 bar)
Burst Pressure	6,670 psig	(460 bar)
Leakage	1.33 X 10 ⁻² scc/sec max at 3,000 psig	
Weight	4.5 lbs max	(2.0 kg)
Volume	30 cu in	

Electrical Characteristics

Voltage	21 to 30 VDC
Coil Current	0.5 amps max
Duty Cycle	Continuous

Operating Environment:

Temperature	-40 to 110 deg F (-40 to 43 deg C)
Humidity	0 to 100%
Shock	15 g
Vibration	7.3 Grms

Non-Operating Environment:

Temperature	-40 to 110 deg F (-40 to 43 deg C)
Salt Atmosphere	MIL-STD-810, Method 509.1
Sand and Dust	MIL-STD-810, Method 510.1

Product Interfaces:

Fill Valve	Schraeder Style
Electrical	MS27466T11F35P8