

Gas Purging System

About-

Neometrix has developed Gas Purging System for LASTEC, DRDO (New Delhi). It is used to purge the Nitrogen Gas at desired Pressure and flow into the Laser Generating System.

Whole system consists of Following Three Modules-:

(a). Gas Manifold: - In this section Nitrogen Gas at Ambient Temperature & High Pressure enters into the system. There are four numbers of Nitrogen Cylinder of capacity 80 liters at 200 bars for supply the Nitrogen in to the Gas Manifold One outlet & one vent line is provided, as explain in drawing no.

(b). Mechanical Control Panel (Gas Purging Panel): - After Gas Manifold Section, Nitrogen Gas enters into the Mechanical Control Panel. At High Pressure & Flow where its pressure is reduced up to the desired pressure (Working Pressure) & supply it into the laser Generating System.

(c). Automatic Control Panel: - Automatic Control Panel having various control of the System like Pressure, Flow etc. Automatic control panel is controlled by PLC. All related electrical circuit is installed within this Panel. It should be Compact, high speed, and contain power supply unit.



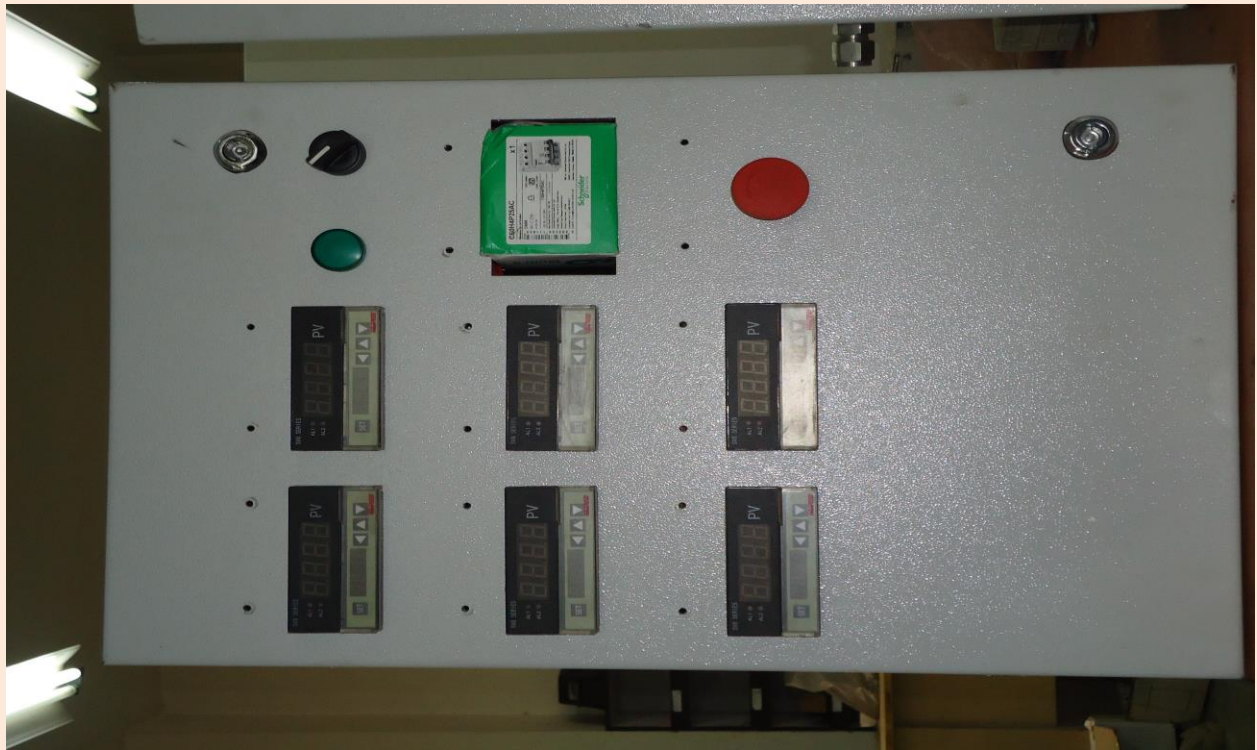
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Technical Specification-

1	Ball Valve	Working Pressure:200 bar,1/2" OD tube ports, Class 2500 based on pressure, Class IV based on leakage
2	Filter-1	WP:200 Bar,2 μ ,SS316,T-Type with replaceable filter element
3	Filter-2	WP:200 Bar,0.1 μ ,SS316,T-Type with replaceable filter element
4	Pressure Transmitter	Material of wet tedparts:316L,Nonlinearity: 0.5% BFS, Unit: Bar, Absolute or relative pressure: gauge Pressure range: 0...200 bar gauge Process connection: G 1/4 A DIN 3852-E,Sealing: NBR, Signal output: 4 ... 20 mA, 2-wire,Power supply: 8...30 V DC, Electrical connection: valve connector, size A, Approvals: UL /CSA/GOST, Calibration Certificate
5	Relief Valve	WP: 200 Bar, set @ 15 and 8 Bar, SS316, Spring loaded



Application-

Gas Purging System for LASTEC, DRDO (New Delhi). It is used to purge the Nitrogen Gas at desired Pressure and flow into the Laser Generating System.



Key Features-

Gas Manifold: - In this section Nitrogen Gas at Ambient Temperature & High Pressure enters into the system. There are four numbers of Nitrogen Cylinder of capacity 80 liters at 200 bars for supply the Nitrogen in to the Gas Manifold One outlet & one vent line is provided, as explain in drawing no.

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