



The Complete Engineering Solutions Company

Newsletter Of Neometrix

Issued on Mar 2019



NEOMETRIX ENGINEERING PVT LTD

ABOUT

Neometrix Engineering (P) Limited is a Test Bench, Test Equipment, Test Rig design and manufacturing company based in Noida. In our 2 decades of operations we have supplied more than 400 test rigs at different establishments of defense, aviation, agriculture, nuclear, automobile and Private Defense industries.

The founders of the company are graduates from IIT Kanpur and the company remains very closely linked with IITs. We utilize the expertise available there as and when required. Neometrix is working with IIT professors on several consultancy projects. We take extensive consultancy support from IIT.



“RAIL INDIA TECHNICAL AND ECONOMIC SERVICES (RITES) TRUSTS (CHOOSES) NEOMETRIX AGAIN ”

Neometrix is very focused on Aviation and Railway industries and offers complete range of systems & services which can be of immense use to you. We specialize in Hydraulic/ Servo Hydraulic Test Rigs, Fuel System Test Rigs, Pneumatic System Test Rigs, Oxygen/ Special Gases system Test Rigs, Very High Pressure Systems, Electronic & Electrical Test Rigs. Our services include among others, the followings:

- State of the art Test Rig Design, Development, Fabrication, Installation, Commissioning, Training & Support.
- Refurbishment/ Up gradation of the Existing Test Rigs.
- Maintenance (AMC) contracts of Existing Test Rigs.
- Operations Contract for the Test Rigs.
- Setting up of complete Testing Infrastructure including civil infrastructure.

DISTRIBUTOR VALVE TEST RIG:

The system is designed to test the performance of the Distributor valve.

Distributor Valve works on Pressure difference in the Brake Pipe. The system is consisting Brake Pipe, Auxiliary Reservoir, Brake Cylinder and Control Reservoir.

The DV Test Rig Test the following Parameters one by one :

1. Charging Time of AR & CR
2. Leakage Test
3. Brake Application Time
4. Brake Releasing Time
5. Max. Brake Cylinder Pressure
6. Sensitivity
7. Insensitivity
8. Graduated Application
9. Graduated Release
10. Re-feeding Test
11. Availability of BP pressure
12. Overcharge Protection Test
13. Quick Release Valve Test

*The System can be used to test the Distributor Valve for Coach and Wagon (Loaded or Empty)
The stroke Length of the Brake Cylinder can be adjustable manually from machine according to the diameter of Brake Cylinder.
The system works on a predefined Test Sequence with an option to test the particular test.*



" GAS TURBINE RESEARCH ESTABLISHMENT (GTRE) BANGALORE

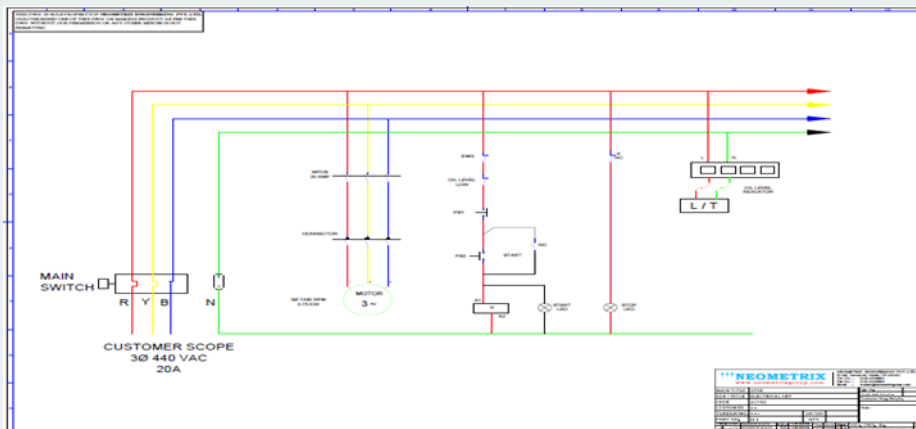
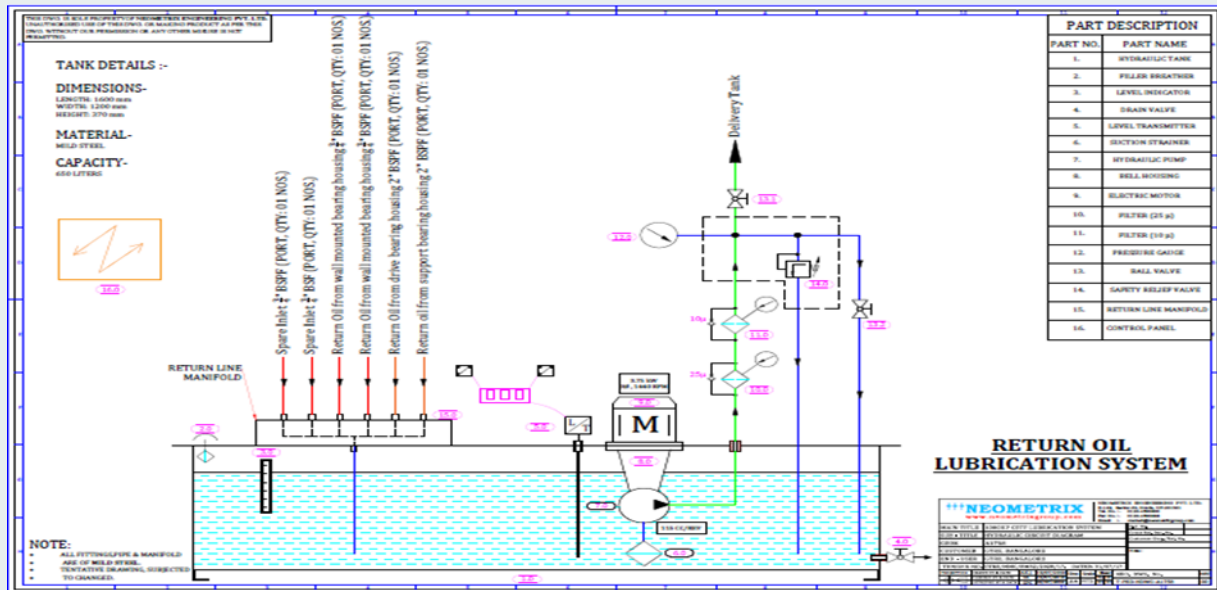
NEOMETRIX UNDERSTANDS THE VALUE OF QUALITY "

HYDRAULIC LUBRICATION SYSTEM

The suction lubrication system is specially developed for simultaneous ground lubrication of the system connected. It is used to supply hydraulic oil to hydraulic systems, comprising a pressurized or non-pressurized reservoir, with filtered and de-aerated fluid at the flow and pressure characteristics required for testing. The system is suitable for a wide range of hydraulic system.

It provides following type of hydraulic services:

1. Continuous filtered high pressure hydraulic oil supply to hydraulic system.
2. Delivery Pressure & flow can be sleeplessly controlled from the panel.
3. A System regulating the hydraulic fluid level in system and also enables to decrease or increase the level of reservoir at quantitative volume of oil.
4. Instrumentation of different parameters like delivery pressure , return pressure, delivery flow, temperature etc.



SNUBBER TEST RIG

The Test Rig is Electro Hydraulic

The List of the test to be tested on the Rig is as follows:

- a. Lost Motion test with automated interpretation of results.
- b. Free Operability and Drag Force Test with automated interpretation of results
- c. Lock (Sensitivity) and Drift Speed test along with measurement of sensitivity and drift speed with automated interpretation of results.

The control panel consists Control panel for user operation, 24V DC Power Supply, UPS, Printer and Emergency Switch etc.

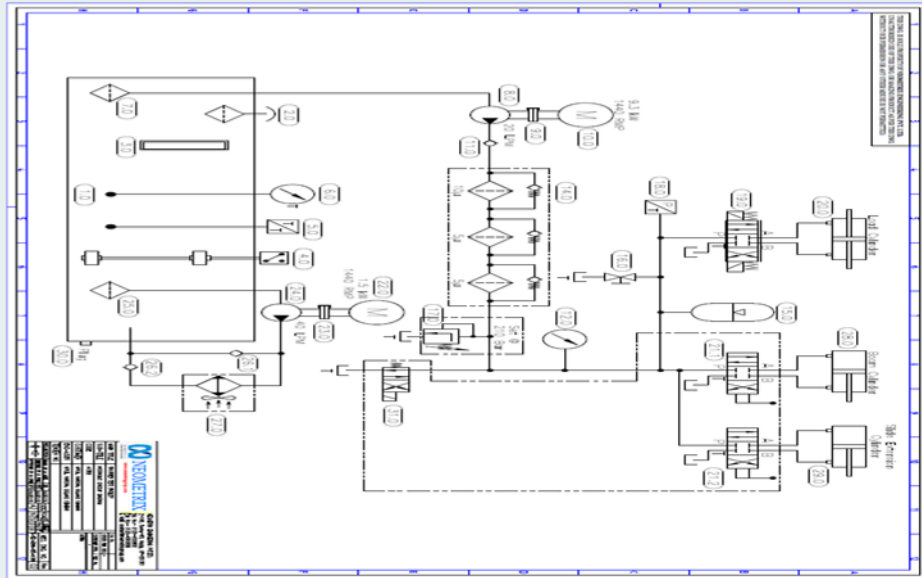
The Schematics Diagram of Snubber Test Rig and detailed representative of major items for manufacturing are given in the list. List is given in Manual.

The change in Design for betterment of test rig is highlighted as according to requirement.

All necessary safety features are incorporated in the design of Snubber Test Rig .The installation has proper earthling arrangement for discharging static charge. And hence minimize the fire hazards. All labeling on the Test Rig are written in English.



Snubber Test Rig



Snubber Test Rig Circuit

“ HINDUSTAN AERONAUTICS LTD. (HAL) BANGLORE :

BEST OF NEOMETRIX “

HYDRAULIC SERVICING TROLLEY

(HYDROMOBILE 200D – DIESEL VERSION)



The Hydraulic service trolley is specially developed for simultaneous ground servicing of two independent aircraft systems. It is used to supply hydraulic oil to aircraft hydraulic systems, comprising a pressurized or non-pressurized reservoir, with filtered and de-aerated fluid at the flow and pressure characteristics required for testing. The trolley (HYDROMOBILE 200D – DIESEL VERSION) is suitable for a wide range of fighter aircraft's, military transport aircraft's, and helicopters used in Indian Air Force.

It provides following type of hydraulic services:

1. Continuous filtered high pressure hydraulic oil supply to two independent aircraft systems.
2. Delivery Pressure & flow can be sleeplessly controlled from the panel.
3. A System regulating the hydraulic fluid level in each system of aircraft and also enables to decrease or increase the level of aircraft reservoir at quantitative volume of oil.
4. Instrumentation of different parameters like delivery pressure boost pressure, return pressure, delivery flow, temperature etc.
5. Trolley tank can be completely isolated and aircraft tank can be used in the circuit and including both tanks in the circuit is also possible.
6. There is a provision of degassing through vacuum system.

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