



GOLPA
INDUSTRIES

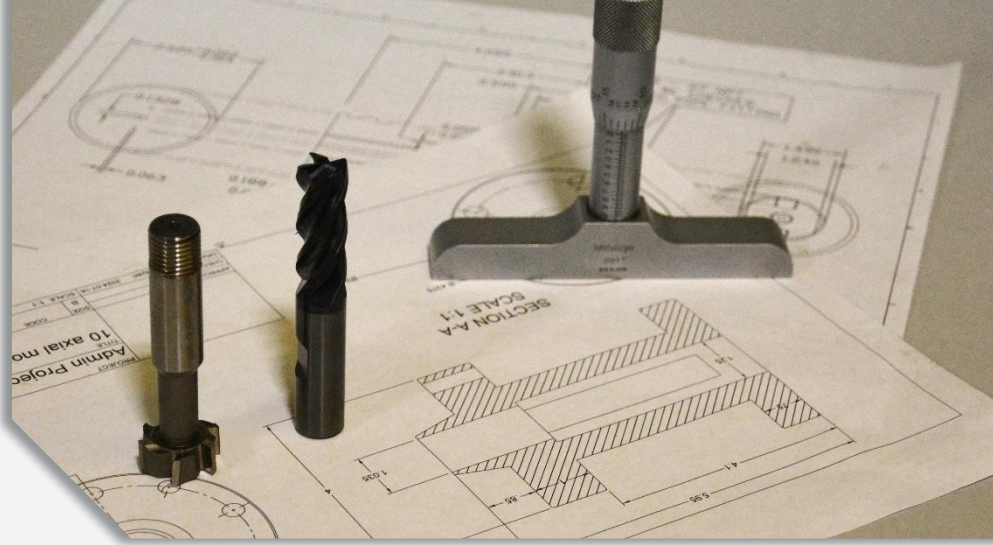
GOLPA INDUSTRIES

FROM DESIGN TO MANUFACTURING

The latest products from our company

- Automated laboratory equipment
- Custom-made Core holders, high-pressure cells, etc.
- Data acquisition systems
- ...





Innovation, Precision, Experience

Operating out of Calgary, Alberta, GOLPA Industries is a Canadian owned company. We provide products/services to customers across the country, and internationally. Our team consists of passionate engineers who combine theoretical knowledge with hand-on experience to create innovate and high-quality products. We provide personalized customer services tailored to customer specifications, and we apply high standards to all our projects, regardless of the order size.



Automated Gas Permeameter /Porosimeter (POROPERM)

The automated POROPERM instrument is used to measure both the permeability and porosity of core plugs. Permeability is determined with either steady state or unsteady state method and the equivalent liquid permeability and slip factor are calculated. Porosity is determined with isothermal gas expansion and application of Boyle's law. The unit is equipped with a high-speed data acquisition system, gas regulator, digital display, solenoid valves, pressure transducers, laptop with installed software, Hassler type core holder, pump, etc. Software has different modules for visualizing the process, data entry, showing the pressure and temperature and status of the valves, results and summary, graphs, calibration configuration, and generating reports. Absolute permeability, porosity, grain density, pore volume, slippage factor, and air permeability are presented at the end of the test.

► Features

- Confining Pressure: Up to 10,000 psi (customizable) – Manual and automated confining systems are available
- Operating Temperature: Ambient
- Measurement Type: 3 options available
 - Fall-off (unsteady state)
 - Pulse decay (unsteady state)
 - Steady state
- Permeability Range: 10 nD-15,000 mD (depending on the measurement type)
- Porosity Range: Up to 60%
- Gas Type: Customizable (N₂, He, air)
- Core Diameter: Customizable (Standard: 1 and 1.5 inch)
- Core Length: Customizable (Standard: 0 to 4 inch)
- Pressure Accuracy: 0.1% FS
- Electrical Requirement: 110-220V, 50/60 HZ
- Dimensions: 20inch × 26inch × 16inch
- Accessories: O-rings, rubber sleeve, toolbox, calibration plugs, instruction manual, etc.



Data Acquisition System (GI-8AI2A013RL)

A data acquisition system (DAS) is a device that records the physical conditions such as pressure and temperature and converts them into digital data and controls other devices such as valves, regulators, flow controllers, etc. This data can then be stored and analysed by a computer. The data acquisition system developed by GOLPA Industries is a compact and versatile device that could be used in your workstations/labs to control and monitor the processes /experiments. The developed software is user-friendly and has different modules for data entry, showing the parameter values (pressure, temperature, etc.), status of the valves, graphs, and calibration configuration.

► Features

- Input: 24V DC 10A(max)
- Connection Type: Micro USB 2.0
- Max Sampling Rate: 20 kS/s
- Analog Input Resolution: 14 bits
- Analog Input Absolute Accuracy: 26 mV
- Dimensions: 16cm × 17.4cm × 8.9cm
- Software: Include graph, calibration, visualization, etc. (customizable)
- 8 Analog Input Channels (Pressure, temperature, flow meter, etc.); Working voltage: -10 to +10 V
- 2 Analog Output Channels (Regulator, control valves, flow controllers, etc.); Working voltage: -10 to +10 V
- 13 Solid State Relays Channels (for switching valves) 0.5A max
- Accessories: USB cable, software (USB flash drive), protective case, instruction manual, female terminal blocks, power supply.





Hassler Type Core Holder

Core holders are used to hold a core sample for porosity, permeability or other core flooding tests. This design allows for fast loading and unloading the core plugs without completely disassembling the core holder.

► Features

- Core Diameter: Customizable (Standard: 1.5 inch)
- Core Length: Customizable (Standard: 0 to 4 inch)
- Confining Pressure: Up to 10,000 psi
- Operating Temperature: Up to 200 °C
- Fitting: NPT
- Wetted Part Material: Stainless steel
- Sleeve/Sealing Material: Nitrile, Viton



Calibration Plug Set

Precision calibration plugs for porosity and permeability calibrations

► Features

- Outside Diameter: Customizable (Standard: 1.5 inch)
- Inside Diameter: Customizable (Standard: 0.5 - 1inch)
- Length: Customizable (Standard: 3 inch)
- Material: Stainless steel, Aluminum

Transfer Cylinders/Cells

Transfer cylinders (piston cylinders) are used in oil and gas/chemical industries to store and displace liquid and gases for laboratory experiments.

► Features

- Internal Volume: Customizable (Standard: 1 L)
- Operating Pressure: Up to 10,000 psi
- Operating Temperature: Up to 200 °C
- Fitting: NPT
- Material: Stainless steel/Aluminum/PEEK
- Sealing Material: Nitrile, Viton







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