High-pressure customized solutions for the oil and gas industry
Haskel provides a wide range of high-pressure pneumatic and hydraulic equipment for the oil and gas, defense, aerospace, automotive, fluid power, air power, power generation and process industries.

Haskel has a strong commitment to maintaining world-class quality, upholding the health and safety of employees and customers, protecting the environment and providing excellent service and support.
Operating in the complex world of oil and gas, Haskel is committed to maintaining a simple approach to business, focusing on three key factors: understanding our customers and their needs; delivering the highest quality products; and dedication to innovation.

This methodology has led us to become the global leader in providing customized solutions for high-pressure liquid and gas transfer, storage and controlling applications. Designed to enable the controlled use of pressure and flow-generating equipment, Haskel air or gas driven liquid pumps, gas boosters, air amplifiers, and high-volume accessories are the most comprehensive range of high-pressure liquid or gas handling components available to facilitate the construction of test systems and custom built rigs that meet the exacting standards of the oil and gas industry. Operators and service companies worldwide rely on our products to deliver optimum performance and extended product life. As operating environments become more extreme, pressure increase and field life expectancy grow, we continue to deliver products that surpass oil and gas companies’ expectations, while simultaneously allowing them to meet the stringent safety regulations that protect their personnel and the environment.

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An international network of highly trained distributors, with application engineering expertise, stand behind our products. These professionals ensure that our customers’ expectations are met with a solution specific for their needs.

LIQUID PUMPS & APPLICATIONS

**Liquid Pumps**

- Haskel pneumatic pumps stall when they reach a pre-determined pressure and maintain that pressure for the duration of operation without consuming power, unlike electric motor pumps that dump fluid across a relief valve, wasting energy and creating hot, dangerous conditions. The safe, clean, stable air operation eliminates this risk.
- Haskel pneumatic pumps have a smaller footprint, weigh less, and are easier to maintain than typical electric-driven pumps.

**Hydraulic Pressure Testing**

Haskel pumps ensure the integrity of large valves and wellheads over the lifetime of a well. Hydraulic power units and customized systems test valves, components, pipes, downhole tools, and other components to stringent specifications, including static operation, evacuation, hydraulic proof, leak, burst, fatigue, and calibration testing. A wide range of fields and applications, including oil and gas, nuclear, aerospace, defense, pipelines, railways, marine, valves and gauges.

**Valve Actuation**

Dampened running, hydraulic pressure from an air-driven pump can be used to pressurize valves.
Our boosters are ideal for gas hydrocarbon to the deck with is a safety issue. Christmas tree valves. It is necessary to equalize the pressure both sides of the wellhead either diesel fuel or methanol line in order to equalize the pressure before the wellhead valves are opened. During startup of both new and out of service wells, the pipe from the platform and/or FPSO must be pressurized to well pressure surge or abnormally high pressure is experienced.

Haskel pumps deliver foolproof, fail-safe condition. If a pressure abnormality occurs, the hydraulic fluid is dumped and the valve closes in a fail-safe condition. While in this condition, there is no heat generated or energy consumed, and no wear to seals is incurred.

Well Emergency Shut Down Systems
Haskel dry seal gas boosters use fail-safe hydraulic driven actuators within remotely piloted valves along with the air-driven pumps. The pumps are used to pressurize banks of nitrogen-filled accumulators with hydraulic oil to activate the actuators within remotely piloted valves along with the air-driven pumps.

Gas Boosters
Haskel air-driven and hydraulic-driven gas boosters detect hot-spots using pressurized gas. Boosters detect hot-spots using pressurized gas that will generate a flow of gas. Pressurized gas can also extract high-cost Halon vapor from the extinguisher against the pressure of the nitrogen, instantly mixing the two. Haskel pumps are used as a propellant, Halon is pumped into the Halon, is designed to automatically halt operation when the required weight of Halon is achieved. Where nitrogen is used as a propellant, it is needed to purge the wellhead gas to prove they are leak tight before being put into service in gas production facilities.

GAS BOOSTERS & APPLICATIONS

Pressure

• Pressure is dumped and the valve closes in a fail-safe condition.
• If a pressure abnormality occurs, the hydraulic fluid is dumped and the valve closes in a fail-safe condition.
• While in this condition, there is no heat generated or energy consumed, and no wear to seals is incurred.

Well Expansion System
During startup of new and existing service wells, pressure from the platform and/or FPSO is transferred to the output wellhead located at the lowest floor and is maintained with nitrogen booster stations. It is necessary to equalize the pressure both sides of the wellhead Christmas tree valves. It is necessary to equalize in order to prevent the sudden rise of instantaneous hydraulic friction to the deck valves is a safety issue.

Fire Protection/Dection
Haskel pumps are used for rapid and precise filling of fire extinguishers. Haskel pumps can provide fire extinguishers with high-pressure gas cylinders. Haskel gas boosters are used for rapid and precise filling of fire extinguishers.
Safety Systems

Fire Fighting: The Safety Amp breathing-air booster compresses breathing-air up to 345 bar (5,000 psi) for use in rescue work.

Life Support: Our specially designed respirators deliver breathing mixes for use in life-support applications.

Survival Craft: Haskel air boosters inflate and pressurize totally enclosed survival craft that submerge and resurface.

Helicopter Bootstrap: Nitrogen or helium-fed boosters automatically inflate floats, in the event that the helicopter needs to land on water.

Diving: Haskel air-driven gas boosters pressurize gas for offshore deep-sea diving operations. Gas boosters can be arranged in series or in parallel to achieve the required flow combinations of pressurized gases including oxygen, nitrox, and helium. Haskel gas boosters are noted for their cleanliness and can handle pure gases, such as oxygen, without risk of contamination.

Gas boosters for breathing air applications are oxygen cleaned per Mil Spec 1330, for oxygen use.

Chemical Injection

Different types of chemical injection equipment are required for different applications, and we feature low, medium and high flow systems. The unique Haskel injection rate control device (IRCD) has been designed for single and multi-point chemical regulation.

IRCD Capacity

- Low flow specifications:
  - 15,000 psig (1034 bar) maximum operating pressure
  - 0.5 to 320 LPH flow range (0.13 - 84 GPH)

- Medium flow specifications:
  - 15,000 psig (1034 bar) maximum operating pressure
  - 320 to 2000 LPH flow range (0.84 - 528 GPH)

- High flow specifications:
  - 10,000 psig (690 bar) maximum operating pressure
  - 2000 to 5000 LPH flow range (528 - 1320 GPH)

Haskel pumps are used for methanol injection where flows and pressure are higher.

Chemicals Injection

A complete family of high-pressure controls and system components to complement Haskel’s extensive line of pumps, gas boosters, and air pressure amplifiers. Panel fabricators, control panel shops and OEMs use Haskel accessories to control or store pressure and flow.

- Check valves to control direction and flow
- Relief valves to protect against over-pressurization of systems
- High Pressures 10,000 psi (690 bar) accumulators to store hydraulic fluid as energy source

Air Amplifiers

- Haskel air amplifiers are compact, lightweight, and require no electrical or mechanical drive connections, and are powered by the input air. They are available with pressure outputs up to 5,000 psi (350 bar).

Diesel Engine Starter

Haskel air amplifiers can be used to charge an air cylinder that is connected to an air start or diesel engine.

Haskel gas boosters and amplifiers are used in medical recovery, deep-sea diving operations, mine detection, weather balloons, and other applications with helium, oxygen, other gases, gas mixtures, electrical circuit breaker installations, starting diesel engines, and the production of ultrahigh purity gases.

Because of our safe pneumatic operation, no heat, flame or spark risk arises.”
For more information on our high-pressure products, visit Haskel.com or contact your local Haskel representative.

Haskel is a brand of Accudyne Industries, a leading global provider of precision-engineered, process-critical and technologically advanced flow control systems and industrial compressors that deliver consistently high performance and give confidence to the needs of our customers in the most important industries and harshest environments around the world. The company is powered by more than 3,000 employees at 18 manufacturing facilities, supporting a broad range of industries in more than 150 countries.