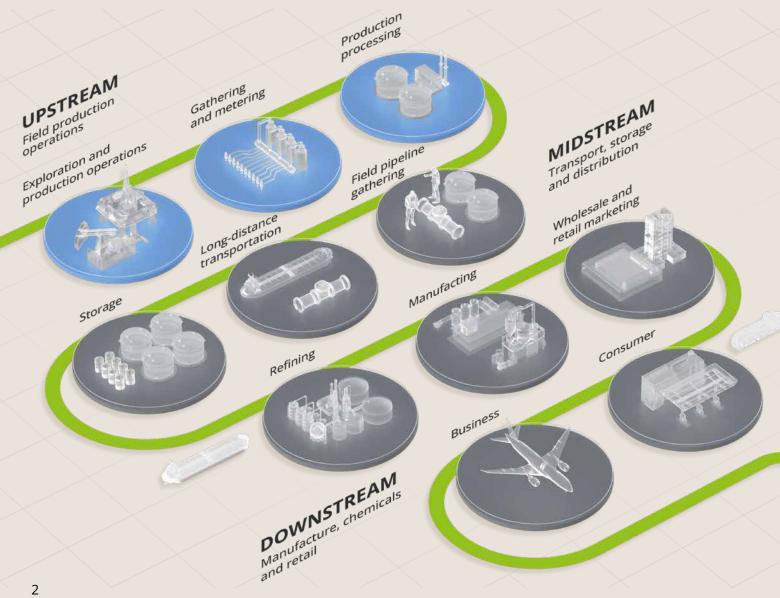




# **EXCELLENCE** AND **SAFETY**









# SAMSON stands for operational excellence and safety in the oil and gas industry

For over 100 years, SAMSON has developed valve technology to maximize your plant's productivity and meet the strictest safety standards. Find out how SAMSON can optimize your upstream processes.

Our products are tailor made for use under extreme conditions: onshore or offshore, to handle high pressure drops, corrosive media or severely fluctuating process parameters.

Global projects call for a local presence. With SAMSON's global sales and service network, a competent contact person is never far away. This is how we manage fast deliveries and start-up, provide expert support and offer prime-quality service throughout the entire service life of your plant.

Our products are developed and tested to comply with international standards, such as API 6A/6D, ATEX and SIL. Clearly focused on safety, a long service life and digital diagnostics, we support our customers in minimizing plant downtimes, optimizing plant performance and reliably complying with regulatory requirements.











5

# UPSTREAM APPLICATION MILESTONES IN SAMSON'S OIL AND GAS ACTIVITIES

**2** First oilfield off the coast of Norway





1 Major **LNG project** off the coast of Australia



Integrated project to process sour crude oil and gas in Abu Dhabi



4 Offshore gas and condensate production off the coast of southern Vietnam





**FPSO** at the coast of North America operating the deepest oil and gas production site worldwide

### **HIGHLIGHTS**

#### FOR THE UPSTREAM PROCESS

SAMSON has a comprehensive product range for critical control and safety applications in upstream processes. Valve engineering and process equipment manufactured to meet the highest standards and tested to exceed the strictest requirements. Our valves are designed to handle operating pressures of up to 15,000 psi.







# **Block-and-bleed valves**

- Compact solutions for maintenance, sampling and emergency shut-off
- Versions available with metal seat, for cryogenic and high-temperature applications, in API 6A/6D design, compact face-to-face dimensions

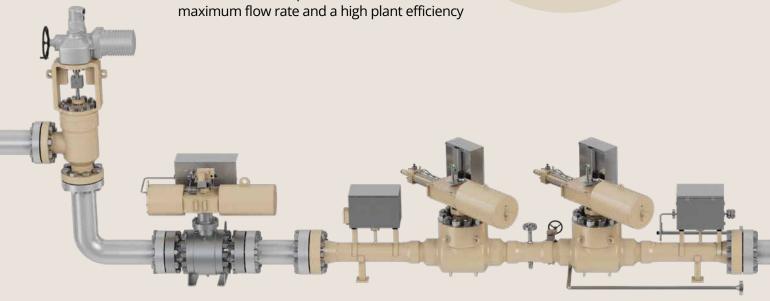
# **HIGHLIGHTS**

#### FOR THE UPSTREAM PROCESS



- Perfect to control media containing solids
- Nearly linear control curve possible
- Unobstructed flow path to achieve the maximum flow rate and a high plant efficience







### Globe Valves for severe service

- Modular design to simplify maintenance and service
- Multi-stage trims to handle media containing solids
- Service on the installed valves to optimize maintenance intervals



pressure peaks thanks to conically shaped seats

maximum flow rate and a high plant efficiency

• Unobstructed flow path to achieve the

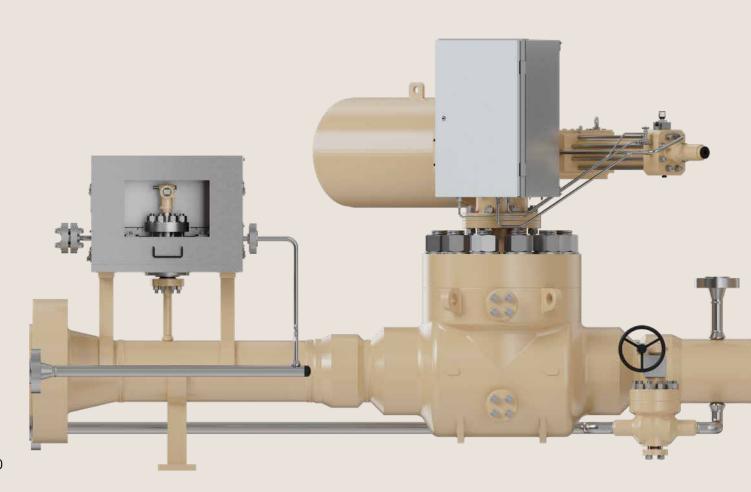
# PROTECT AND REDUCE



High Integrity Manifold Block (HIMB)

# PROTECT YOUR CRITICAL ASSETS WHILE REDUCING CAPEX

SAMSON HIPPS is a high-integrity pressure protection system: an advanced, safety-critical technology designed to provided a final layer of protection against overpressure scenarios in the process systems.



Several units work together to provide an immediate response when critical pressure surges occur:

- Pressure sensors monitor the line pressure (initiators)
- A logic solver processes the signals and decides whether to shut down the plant for safety reasons
- Final Control Element: high-performance valves (such as ball or axial valves) shut off the plant section at risk

#### SAMSON HIPPS has a number of benefits over classic safety systems:

- HIPPS Components from a Single Source including Interlocking Manifolds, with single point responsibility with complete assembly up to SIL 4 certification
- Flexibility in selecting different types of Final Control Elements Ball, Axial, Gate and Butterfly Valves
- Global approvals and references for HIPPS Projects:
  Heaviest Final Control Element of size 34" 2500 Ball Valve ever made





### **SOLUTIONS**

FOR THE UPSTREAM PROCESS OIL AND GAS

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