

Application

Sphinx® High Integrity Pressure Protection System (HIPPS) is a Safety Instrumented System (SIS), which by definition is a distinct, reliable system used to safeguard a process to prevent a catastrophic release of toxic, flammable, or explosive chemicals.

Sphinx® HIPPS can be employed to prevent over-pressurization of a plant by shutting-off the source of the high-pressure gas rather than by releasing it to the atmosphere.

Product Range

- ❖ Valve Types : Trunnion-mounted Ball Valve, Triple-offset Butterfly Valve.
- ❖ Sizes : 2" to 56" , 3" to 100".
- ❖ Pressure Rating : Class 150 to 2500 , Class 150 to 1500.
- ❖ Temperature Range : -196 °C to 350°C , -196 °C to 538 °C.

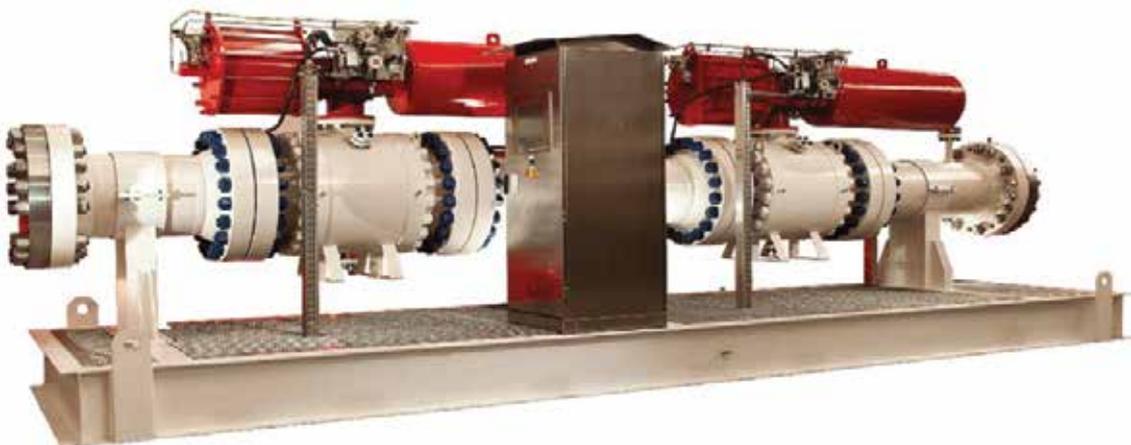
Codes & Standards

Sphinx® HIPPS are compliant to the following standards:

- ❖ API 521, ASME 2211 : For the conditions when a SIS can be used as an alternative to a pressure relief device.
- ❖ IEC 61508 : Standard for functional safety of electrical, electronic and programmable electronic equipment and included mechanical components that are necessary to execute the safety function.
- ❖ IEC 61511 : For integrators, SIS designers and users.

Key Features

- ❖ Certified to SIL 3
- ❖ Partial Stroke Testing (PST)
- ❖ Fast Acting
- ❖ Tight Shut-Off
- ❖ Fugitive Emission
- ❖ Fire Safe





Sphinx Process Systems

Sphinx® Process Systems is a fully owned subsidiary of the Pyramid E&C group. Sphinx® offers a wide range of onshore and offshore oil and gas production equipment, utility and automation packages manufactured as per American standards. All our facilities are managed by ISO certified teams and the products are certified to ASME 'U' and UL compliance.

Oil & Gas Productions

- Separators
- Electrostatic Desalter
- Gas Sweetening Unit
- Gas Dehydration Unit
- Produced Water system
- Heater Treaters
- Joule Thompson skids

Automation Packages

- E-House
- Gas Fiscal Metering
- Liquids Fiscal Metering
- HIPPS
- Choke Manifold

Utility Systems

- Hot oil systems
- Chiller packages
- Steam Generators
- Demineralized water system
- Air/ Nitrogen packages
- Fuel Gas Conditioning skids
- Chemical Injection systems

Process Equipment

- Pressure Vessels
- Distillation Columns
- S&T Heat Exchangers
- Air Cooled HX
- Fired Heaters

Engineering & Manufacturing Locations

Mumbai, India

- Engineering
- Procurement
- Manufacturing
- FAT and Delivery
- Aftersales Support

Mundra, Gujarat

- Equipment Manufacturing
- Large skids Assembly
- Mundra all weather port access
- Loadout (1000 MT capacity)

Houston

- Process Design
- FEED Studies
- FAT and Delivery
- Aftersales Support



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