



#safetygoesdigital

HIPPS Solutions

Safe and profitable operations

When operating in high-pressure environments and production fields, an overpressure event can cause damage to the environment, infrastructure, and personnel. In light of increasingly strict environmental regulations, it is important to minimize emissions wherever possible. Mitigating that risk on production wells and flowlines is a challenge that can be solved with a HIPPS.

Handling the pressure

In case of an uncontrolled overpressure event, a conventional system will require mechanical inspection, replacement of rupture discs and root cause analysis, before the process can restart. HIPPS eliminates the inspection and need to replace the part, bringing process back in service in no time with savings up to \$1M.

A HIPPS (High Integrity Pressure Protection System) is a Safety Instrumented System (SIS) that represents the final barrier of protection for process, equipment, personnel and the environment from critical hazardous events. High Integrity pressure protection systems (HIPPS) prevent over-pressurization of pipelines by shutting off the source of high pressure. In contrast to conventional relief systems, HIPPS solutions contain excess fluids or gasses in the system instead of releasing them. This increases safety, reduces losses, and prevents emissions, ensuring your plant complies with regulations.

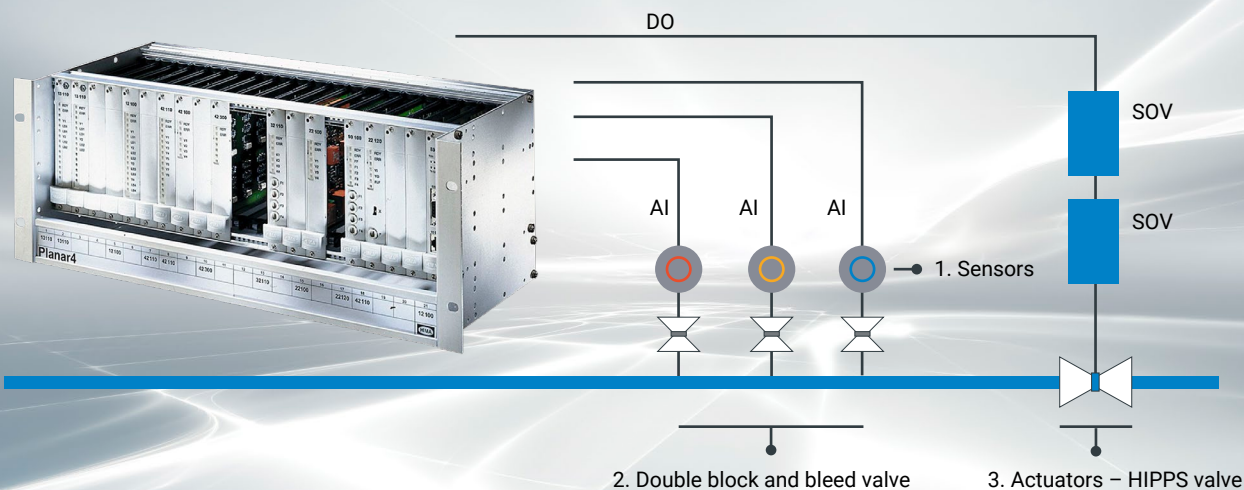
HIMA is a leading expert for HIPPS solutions

Our specialists can provide you with supporting services throughout your project, including functional design specification, SRS (Safety Requirement Specification), SIL verification, and complete third-party certification as per IEC 61511, site operation and maintenance tasks, and a wide range of on-site tests.

We never use standard off-the-shelf solutions for HIPPS – all our solutions are adapted and customized to your installation and its specific requirements.

+ Advantages

- **Maximum Safety**
Our solutions are certified up to SIL 4, helping you fulfil demanding safety requirements.
- **Extensive Expertise**
Our safety engineers work closely with you and offer personalized consulting, training, and knowledge transfer.
- **Flexible Integration**
HIMA solutions can be deployed in diverse industries and easily integrate into any automation environment.
- **Customized Configuration**
All our HIPPS solutions are tailored to our customers' requirements and industry.
- **Enhanced Efficiency**
Reduced costs and environmental impact in comparison with conventional relief systems.
- **End-to-End Approach**
We support you throughout the safety lifecycle.



Planar4 solid-state SIL 4 safety system

HIMA can provide you with a PLC-based logic solver, or solid-state logic solver with our including Planar4 – the world's only SIL 4 system for maximum safety. HIMA HIPPS solutions also include interlocking manifolds to achieve positive isolation without compromising safety when performing maintenance or repairs.

Cybersecurity know-how and technology

At the same time, the risk of cyberattacks is rising. That's why automation security is now one of the most important criteria for the configuration and management of your safety and control systems. As a plant operator, you are also responsible for ensuring that your IACS fulfills security requirements. Often, however, a lack of time and resources presents a challenge.

This is where the security services provided by HIMA come into play. Experienced, impartial safety and security experts provide assistance in assessment, configuration, and maintenance of your plant security.

Apart from the expert consulting and engineering services, HIMA cybersecurity products and solutions offers the best-in-class protection in every possible way. From sensors to logic solvers to valves and actuators, HIMA offers you everything you need for a complete HIPPS solution.

Maintain up-to-date knowledge

At the end of every HIPPS project, we transfer knowledge to our customers. We design a personalized training plan for the plant operators, ensuring their facilities remain safe after the project.

Side by side with strong partners

HIMA collaborates with a number of well-known businesses in the industry to provide tried-and-tested components for HIPPS solutions. This approach not only guarantees that we deliver top-quality products, but also cuts costs for our customers and accelerates the procurement process.

1 Instrumentation partners:
ABB, Emerson, Honeywell, Yokogawa

2 Interlocking manifolds, double block and bleed valves partners:
Astava, SACCAP, Galperti

3 Valve partners:
FCT, Ringo, Flowserve, Cameron



SOLUTION OVERVIEW HIGH INTEGRITY PRESSURE PROTECTION SYSTEM

For further information, please contact:

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