

PIBIVIESSE PROVES THEIR VALUE IN DEMANDING OFFSHORE APPLICATIONS

CASE STUDY OVERVIEW

Simultaneously supporting the development of three oil and gas platforms in the North Sea required high-quality ball valve designs, technical and application expertise, and sophisticated project management and capacity planning.

THE CHALLENGE

TECHNICAL AND MANAGEMENT COMPLEXITY

The three platforms, each of which were destined for the oil and gas fields of the North Sea, required a broad range of floating and trunnion-mounted ball valves, both manual and actuated.

In addition to the technical challenges associated with the harsh North Sea environment, the platforms included a variety of applications that required both a broad range of ball valves and expertise at configuring valves for each application within each platform. Applications for the ball valves included gas processing and compression, condensate and water separation, desalting, desulfurization, and flare and fire-fighting systems.

The stainless steel required by these applications had to be sourced from approved manufacturers in compliance with specified mechanical and chemical properties without compromising the quality of the finished product.

Moreover, the complexity of the three projects required a high degree of technical and project management expertise. Each of the three platforms were managed by different contractors and were on slightly different but overlapping schedules. Meeting the delivery schedule for each project required sophisticated project management capabilities and dedicated production capacity.



CASE STUDY OVERVIEW

THE CHALLENGE

- › A European oil and gas company faced the challenge of simultaneously developing and deploying three oil and gas platforms in the harsh North Sea environment.
- › The platforms required high-performance ball valves for a wide variety of applications, including gas processing and compression, condensate and water separation, desalting, desulfurization, and flare and fire-fighting systems.

THE SOLUTION

- › Pibiviesse worked closely with the contractors to specify, manufacture and deliver the variety of valve designs required for the three platforms.
- › Proactive material acquisition and capacity planning enabled a high volume of valves to be manufactured on schedule for the three platforms.

THE RESULTS

- › As the sole ball valve supplier for the three platforms, Pibiviesse supplied more than 6,000 valves of varying sizes and types for the projects.
- › All three platforms have been successfully deployed in the North Sea and have begun production with all Pibiviesse valves performing reliably.

THE SOLUTION

OUTSTANDING QUALITY, RELIABLE DELIVERY

Pibiviesse was selected for each of the three platforms based on the proven designs of the company's ball valves, a demonstrated ability to comply with all technical specifications, competitive pricing, and the ability to manage large, complex projects.

Pibiviesse performed the raw materials sourcing from selected and qualified sub-suppliers and worked closely with the engineering specifications to ensure proven valve designs were customized to accommodate the various configurations, sealing

arrangements, seat designs and materials selection required by the broad range of applications.

Product standardization based on the specifications across the three projects reduced the engineering technical-review time during the early stages of the project. In most cases, the Pibiviesse team was able to customize valve designs with limited intervention from project engineers, allowing contractor engineering resources to stay focused on other development issues.

Pibiviesse also employed a forward-looking approach to project management and capacity planning, ensuring production capacity for the large number of valves required for the three projects was available when needed to meet the production schedules for each platform.

By the time the three projects were completed, Pibiviesse had supplied approximately 6,000 valves, ranging in size from one to 30 inches. The manual and actuated ball valves used a wide variety of materials including duplex stainless steel, super-duplex stainless steel, 6Mo stainless steel, 316 stainless steel and titanium.

The proven design of the Pibiviesse ball valves meet ASME and API International Standards while remaining adaptable to the wide range of specification requirements. The product features, combined with the extensive experience gained in more than 30 years of supplying valves for offshore platforms, allowed Pibiviesse to successfully manage the complexity of the three projects while delivering a wide range and large quantity of valves with consistent quality.



THE RESULTS

RELIABLE VALVE PERFORMANCE IN A DEMANDING ENVIRONMENT

Pibiviesse completed the production and delivery of all valves with lead times from 6 to 9 months, achieving an excellent on-time delivery rate with consistent product quality across the full range of designs and materials.

Through accurate production planning, fast response, and flexibly and efficiently managing the frequent changes to the scope of work, Pibiviesse was able to meet the technical and management challenges posed by this large, complex set of interrelated projects, delivering more than 6,000 valves of varying sizes and types, which are performing reliably in the demanding North Sea environment.

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