



## Keeping it simple brings results

For valve manufacturers whose equipment is specified across a wide variety of temperature ranges, selecting the right CUI coating brings some unique challenges.

Paint specifications may not be fully developed at the time of order, or may be quite complex, consisting of numerous temperature categories.

The ability to specify a single product, that meets a wide range of temperatures and provides the necessary level of corrosion protection, simplifies the process, giving you a considerable advantage.

Read here how HP Valves (Netherlands) made the most of this advantage on a recent Middle East desalination project.

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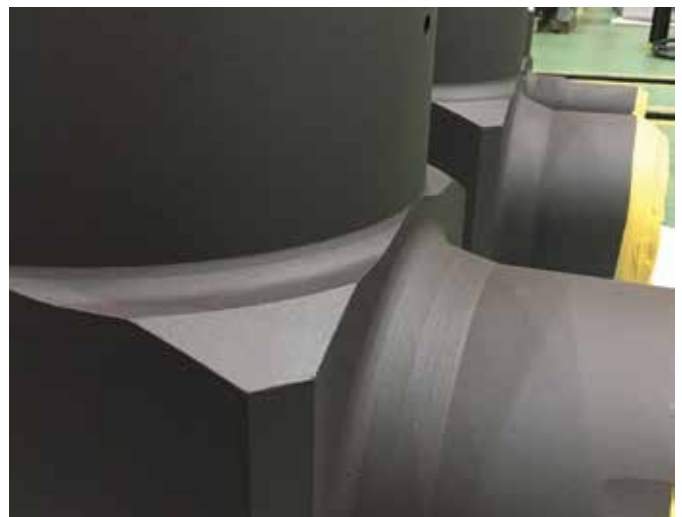
The UAE's Jebel Ali M-Station takes power generation and desalination to remarkable levels, with an installed capacity of 2,060MW and 140 million imperial gallons of water per day (MIGD). The station is located within the Jebel Ali Power Plant and Desalination Complex, which accommodates six other stations and produces 7,800MW of electricity.

Located along the shore of the Arabian Gulf, adjacent to the Jebel Ali Free Zone, the plant is operated by Dubai Electricity & Water Authority (DEWA) who recently chose the site for a significant capacity upgrade.

The expansion project will involve the installation of two additional gas turbine generators, as well as two heat recovery steam turbine generators and one back pressure steam turbine and involves a multinational team of sub-contractors from Europe, Middle East and Asia.

Additionally, Siemens introduced its wet compression technology at Jebel Ali M-Station as a pilot project. This technology uses water injection to reduce the compressor inlet temperature, increasing the power output of a gas turbine without requiring additional fuel.

HP Valves in The Netherlands were awarded the contract from Siemens to manufacture the high pressure valves for this project. In total, this amounted to 2500 valves ranging up to 24 inches in size, each of which required painting prior to shipment to site. Successfully meeting their clients' generic specification, Siemens and HP Valves selected Hempel's Versiline CUI 56990 as the valve coating for this project, which was completed over a 36 week period in 2016.



### Why Versiline CUI 56990?

Versiline CUI 56990 is a heat resistant paint with the following features:

- extremely wide temperature range from -196°C (-320.8°F) to 650°C (1202°F)
- withstands insulated and uninsulated conditions.
- can be used across a wide range of temperature conditions
- exceptional protection, particularly against corrosion under insulation
- provides long term atmospheric corrosion resistance

This offers significant opportunity for reducing complexity in painting equipment such as ball valves, gate valves, globe valves, diaphragm valves and steam traps.

Our personnel are on hand to provide expert advice on high heat paints and anti-corrosion coatings and are at the forefront of preparing corrosion under insulation guidelines. To see how we can help you visit [hempel.com](http://hempel.com)

### What is CUI?

Corrosion Under Insulation (CUI) is one of the major challenges facing equipment operators in the process industries today. CUI occurs when steel is exposed to water and oxygen trapped beneath insulation. CUI typically occurs between 40°C - 175°C and it can lead to rapid corrosion resulting in significantly lost revenue from downtime. A fast and effective solution to CUI, Versiline CUI 56990 will help to reduce your overall lifecycle costs and ensure you benefit from longer uptime.

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