

Sundyne HMD Kontro Sealless Pumps

Beyond Reach

HMD Kontro Supply a Solution for a
Very Inaccessible Location

HMD Kontro

Case Study

The North Sea provides an inhospitable environment for equipment, including pumping systems. When these have to be located in particularly inaccessible areas, often in the far reaches underneath an oil or gas platform, maintenance of the pumps can be awkward.

When the pump supplier Kinder Janes Engineers had a requirement for a pump to be positioned underneath an oil platform, on behalf of the engineering contractor Sigma 3, a joint-venture between AMEC, PSN and Wood Group, they immediately opted for a sealless solution and turned to the specialist supplier, HMD Kontro. A significant benefit of the HMD Kontro sealless pump is the minimum maintenance requirement, especially when compared with a pump fitted with seals that require regular replacement, hence significantly increasing the health and safety risks.

Complying with the requirements of API 685, the HMD Kontro GSP pump was specified in a 22% Chrome Duplex material with an alloy containment shroud. Although there was a particular requirement for these specialised materials, the order also had to be delivered within a very tight timescale.

The pump was required to transfer hydrocarbon condensate water at a rate of 10.5m³ per hour and at a temperature of 40°C. A 54 metre head had to be allowed for and so a HMD Kontro GSP 2 x 1 x 13 pump was recommended.

As with all engineering contracts, the paperwork and documentation had to be completely in order and very thorough in its execution. Indeed, the FPAL report submitted by Sigma 3 after the contract had been completed gave all except one of the rating categories for HMD Kontro as minimum eight out of ten: high good to excellent (the one remaining was still a seven – good).

Returning to the delivery requirements, a reward clause was incorporated for early despatch of the pump from HMD Kontro. This was not only met but also improved upon.

The GSP range from HMD Kontro fully complies with API610 / API685 and so was easily able to cater for this particular application. The standard specification allows for flow rates of up to 600 cubic metres per hour (2600 gallons), a head of up to 200 metres (656 feet) and temperatures up to 450°C (600°F).

Sealless pumps from HMD Kontro, the originator of the concept, not only have application in hazardous areas, where their benefits of no leaks and low maintenance are particularly appropriate; they are also finding application in many industries where the environmental benefits are also appreciated. Indeed, taking into account the lifetime cost of a pump, absolving the need to purchase and replace seals and gaskets provides for significant overall savings, especially as labour costs increase.

For further information on the comprehensive range of HMD Kontro sealless pumps, including those appropriate to API 610 / 685 and many other applications, please see our website at www.hmdkontro.com. Alternatively, please send an email to info@hmdkontro.com or call +44 (0) 1323 452000.

