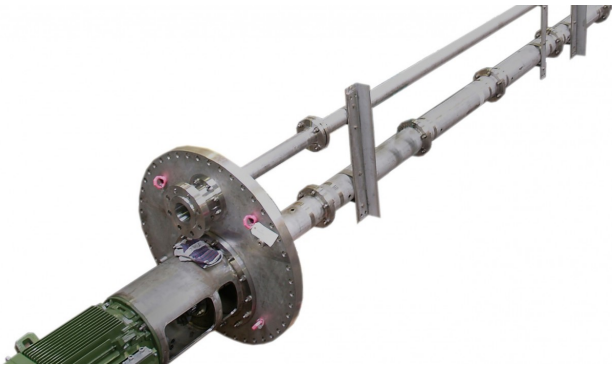


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□ July 9, 2015

## Vertical sulphur pumps see large investment

Amarinth has invested over £1M in designing and launching a new reliable low maintenance range of API 610 VS4 vertical sulphur pumps for the oil and gas industry.

Elemental (pure) sulphur is a valuable by-product recovered during the refinement of oil and gas and is sold on to be used in the manufacture of many products including fertilisers, chemicals, pharmaceuticals, asphalt and concrete. The sulphur is extracted and transported around the processing plant in liquid form at a temperature of some 140C. However, sulphur only remains in its liquid state suitable for pumping within a narrow temperature band of approximately  $\pm 20\text{C}$ .

At lower temperatures the liquid will start to revert to a solid and at higher temperatures its viscosity actually increases due to the formation of polymers, all of which creates unique challenges for sulphur pumps. To date, many sulphur pumps have been simple adaptations of VS4 vertical pumps or other standard designs but these have brought with them maintenance and reliability issues for operators.

<http://www.amarinth.com/>