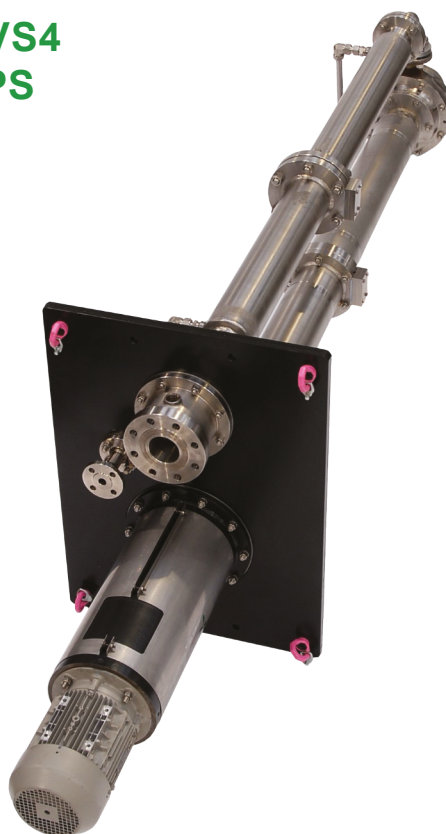




API 610 LATEST EDITION VS4 SULPHUR VERTICAL PUMPS

Amarinth API610 VS4 latest edition Sulphur vertical sump pumps are designed and manufactured for a number of Molten Sulphur applications including production, transfer, storage, loading and unloading. The pumps are typically found in the utility areas of oil & gas production and refineries, though they can be used for other applications. Each pump is designed to fit sump depths of up to 6.0m as standard, although bespoke designs of up to 10m have been supplied. Sulphur pumps are independently verified, fully CE compliant including ATEX.



General description

A range of vertical long shaft single stage centrifugal end suction sump pumps manufactured in a variety of alloys. Designed to suit customer requirements with lengths available up to 6m sump depth

Construction

Heavy duty modular design maximising flexibility to suit customer's application.

Design methodology

Advanced computer techniques, 3D modelling, FEA & CFD

Design standards

API 610 / ISO 13709 latest editions
ATEX EC-Directive 2014/34/EU

Design pressure rating

20 barg at 38°C (pressure containing parts)
6.7 barg at 38°C (steam jacketing)

Operating temperature rating

-40°C to 160°C (standard construction)

Performance envelope

Flowrate

Up to 715 m³/h

Differential head

Up to 87 m

Speed

Up to 1750 rpm

Configurations

Flange mount
Plate mount (circular / rectangular)

Frame sizes

040x025x225 to 100x050x410

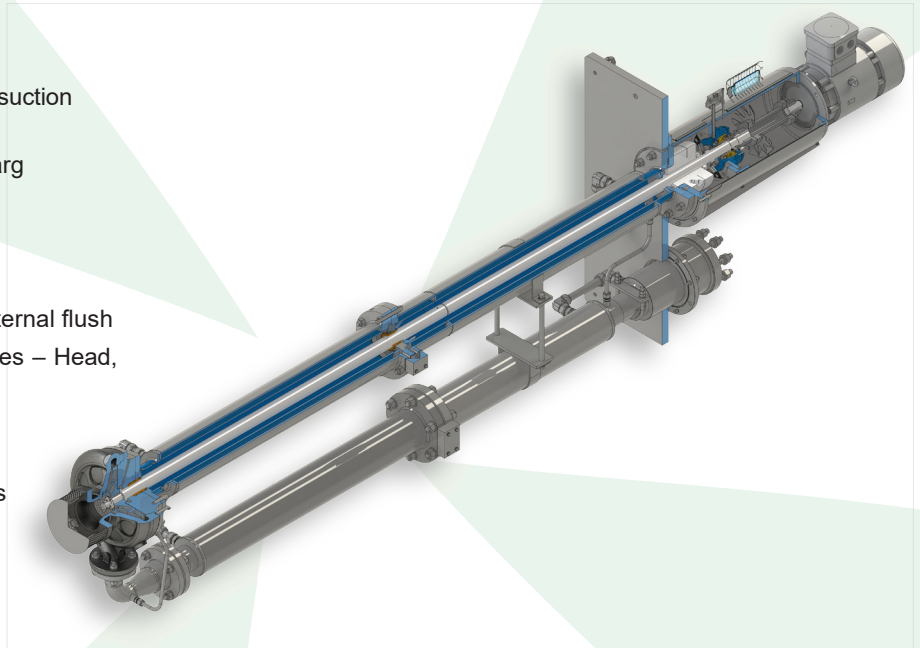
Design life

20 years (3 years uninterrupted operation)

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key features

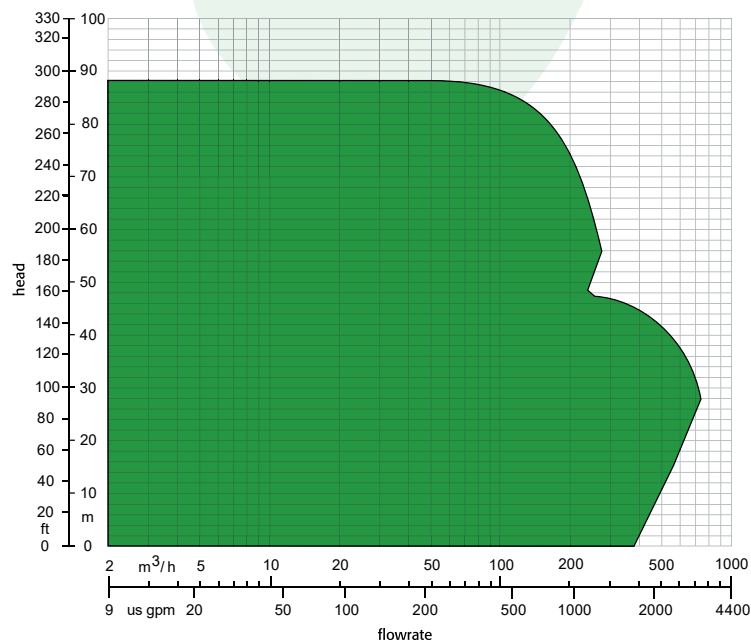
- VS4 vertical long shaft single stage end suction centrifugal pumps
- Pressure containing parts rated to 20 barg
- API 610 compliant steam jacketing
- ATEX compliance, on application
- Shrouded or Semi open impellers
- Lubrication options using product or external flush
- Tested to API 610 / ISO 13709 procedures – Head, Flow, NPSH, Noise & Vibration
- A range of alloys available on request including NACE compliant materials
- -40°C to 160°C temperature applications
- Up to 6m sump depth



materials

Materials	Casing	Impeller
A8 SS316L / SS316L	ASTMA351 CF3M	ASTMA351 CF3M
I1 Castiron / Castiron	ASTMA278 Class 30	ASTMA278 Class 30
S1 Carbon steel / Cast iron	ASTMA216 WCB	ASTMA278 Class 30
D1 Duplex SS/ Duplex SS	ASTMA890 Grade 4A	ASTMA890 Grade 4A
D2 Super Duplex SS/ Super Duplex SS	ASTMA890 Grade 5A	ASTMA890 Grade 5A
Customer specified	Other alloys available on request including NACE compliant materials	Other alloys available on request including NACE compliant materials

Sulphur pumps hydraulic coverage



typical applications

- Production
- Transfer
- Storage
- Loading
- Unloading



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