

## INDUSTRIAL SUMP PUMPS

Amarinth T Series pumps are designed to ISO5199 specifications for the Chemical and General Industrial markets and are fully ATEX compliant. A full range of material options are available as standard to match your application, including NACE compliant materials. Standard Documentation, Testing and NDT packs are offered. Alternatively bespoke packages can be tailored to fit your exact requirements.

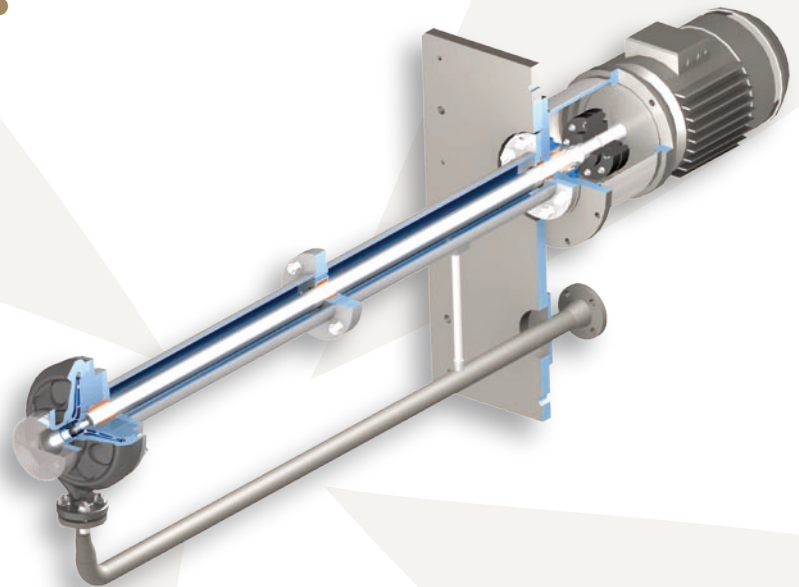


<b>General description</b>	A range of vertical long shaft single stage centrifugal end suction sump pumps manufactured in a variety of alloys. Designed to suit customer requirements with lengths available up to 6m sump depth.
<b>Construction</b>	Heavy duty modular design maximising flexibility to suit customer's application.
<b>Design methodology</b>	Advanced computer techniques including 3D modelling, FEA & CFD
<b>Design standards</b>	ISO5199 : 2000 ATEX EC-Directive 94/9/EC
<b>Design pressure rating</b>	20 bar g at 20°C (pressure containing parts)
<b>Operating temperature rating</b>	-40°C to 100°C (standard construction)
<b>Design temperature</b>	150°C
<b>Performance envelope</b>	
<b>Flowrate</b>	Up to 500m <sup>3</sup> /h
<b>Differential head</b>	Up to 200m
<b>Speed</b>	Up to 3600 rpm
<b>Configurations</b>	Rectangular plate ANSI mount flange
<b>Frame sizes</b>	040x025x145 to 200x150x410
<b>Design life</b>	20 years (2 years uninterrupted operation)

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## key features

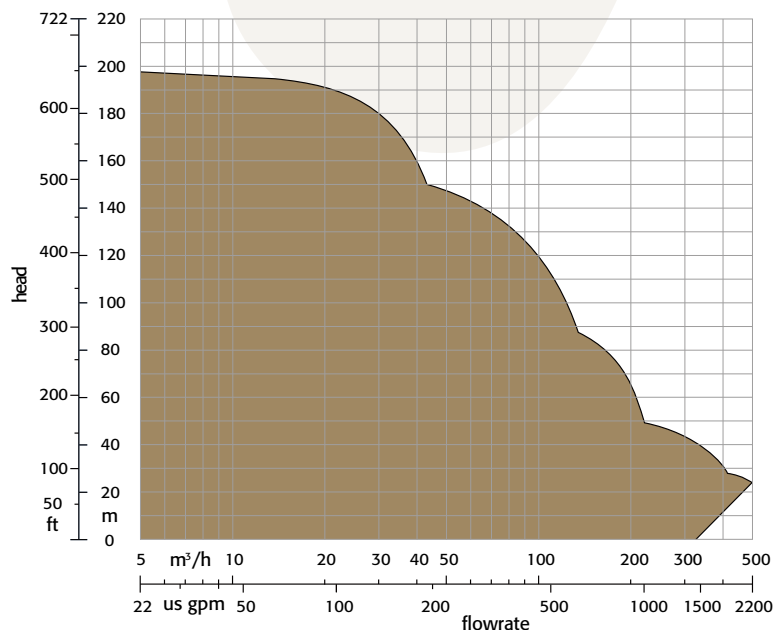
- VS4 vertical long shaft single stage end suction centrifugal pumps
- Pressure containing parts rated to 20 bar
- Full ATEX compliance
- Shrouded or Semi open impellers
- Lubrication options using product or external flush
- Tested to BSEN25199 / ISO5199 – Head, Flow, NPSH, Noise & Vibration
- A range of alloys available on request including NACE compliant materials
- -40°C to 100°C temperature applications



## materials

Materials	Casing	Impeller
SS 316 / SS 316	ASTM A744 CF-8M	ASTM A744 CF-8M
Cast Iron / Cast Iron	BS EN 1561 Gr EN-GJL-250	BS EN 1561 Gr EN-GJL-250
Cast Iron / SS 316	BS EN 1561 Gr EN-GJL-250	ASTM A744 CF-8M
SG Iron / SS 316	BS EN 1563 Gr EN-GJS-400-18-LT	ASTM A744 CF-8M
Carbon Steel / SS 316	ASTM A216 WCB	ASTM A744 CF-8M
Carbon steel / 12% Cr SS	ASTM A216 WCB	ASTM A217 Gr CA 15
Duplex SS / Duplex SS	ASTM A890 Gr 1B CD-4MCuN	ASTM A890 Gr 1B CD-4MCuN
Super Duplex SS / Super Duplex SS	ASTM A890 Gr 5A (UNS J93404)	ASTM A890 Gr 5A (UNS J93404)
Hastelloy B / Hastelloy B	ASTM A949 Gr N-7M	ASTM A949 Gr N-7M
Hastelloy C / Hastelloy C	ASTM A494 GrCW-12MW	ASTM A494 GrCW-12MW
Monel / Monel	ASTM A494 GrM35-1	ASTM A494 GrM35-1
Customer specified	Other alloys available on request including NACE compliant materials	Other alloys available on request including NACE compliant materials

## T Series hydraulic coverage



## typical applications

- Biocide / rain
- Condensate return
- Flare knock out drum
- MEG 75% with H<sub>2</sub>O
- Oily water separator
- Sour water sump
- Storm water
- Utilities
- Wash down sumps



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