

API 685 VS4 MAGNETIC DRIVE PUMPS

Amarinth V Series pumps are designed to API 685 2nd edition specifications for the Petrochemical, Chemical and Oil & Gas markets and are fully ATEX compliant. All API materials are available as standard to match your application, plus bespoke options including NACE compliant materials. Standard Documentation, Testing and NDT packs are offered. Alternatively bespoke packages can be tailored to fit your exact requirements



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 including 3D modelling, FEA & CFD

Design standards API 685 2nd: 2011

ATEX EC-Directive 2014/34/EU

Design pressure rating 20 barg @ 38°C (pressure containing parts)

6.7 barg at 38°C (steam jacketing)

Temperature rating -20°C to 160°C (standard construction)

Performance envelope

Flowrate Up to 300m³/h

Differential head Up to 100m

Speed Up to 3600 rpm

Configurations Flange mount

Plate mount (circular / rectangular)

Frame sizes 040x025x225 to 100x080x265

Design life 30 years (3 years uninterrupted operation)

API 685 VS4 MAGNETIC DRIVE PUMPS

key features

- VS4 vertical long shaft magnetic drive end suction centrifugal pumps
- 20 bar pumps to API 685 (2nd edition) & ATEX compliant.
- -20°C to 120°C temperature application.
- Shrouded or Semi-Open impellers
- A range of alloys available on request including NACE complient material.
- Tested to API 685 procedures Head, Flow, NPSH, Noise and Vibration.
- Full process fluid containment.
 Can handle small levels of particulates.
- Efficient magnetic drive.
- Condition monitoring available.

materials

Materials	Casing	Impeller
A8 SS 316L / SS 316LI1	ASTM A351 CF 3M	ASTM A351 CF 3M
Cast iron / Cast iron	ASTM A278 Class 30	ASTM A278 Class 30
S8 Carbon Steel / SS 316L	ASTM A216 WCB	ASTM A351 CF 3M
S6 Carbon steel / 12% Cr SS	ASTM A216 WCB	ASTM A217 Gr CA 15
D1 Duplex SS / Duplex SS	ASTM A890 Gr 4A (UNS J92205)	ASTM A890 Gr 4A (UNS J92205)
D2 Super Duplex SS / Super Duplex SS	ASTM A890 Gr 5A (UNS J93404)	ASTM A890 Gr 5A (UNS J93404)
H1 Hastelloy B / Hastelloy B	ASTM A494 Gr N 7M	ASTM A494 Gr N 7M
H2 Hastelloy C / Hastelloy C	ASTM A494 Gr CW 12MW	ASTM A494 Gr CW 12MW
Monel / Monel	ASTM A494 Gr M35 1	ASTM A494 Gr M35 1
T1 Titanium / Titanium	ASTM B367 Gr C2	ASTM B367 Gr C2
Customer specified	Other alloys available on request including NACE compliant materials	Other alloys available on request including NACE complient materials

hydraulic coverage

typical applications

