



Amarinth

API 685 OH3 LOW PRESSURE MAGNETIC DRIVE PUMPS

Amarinth OH3 F Series Magnetic Drive pumps for the Petrochemical, Chemical and Gas markets are designed to API 685 2nd edition specifications and are fully ATEX and IECEx compliant. All API materials are available as standard, 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 OH3 vertical inline overhung pumps available as foot, frame or pipeline mounted variants and manufactured in a variety of alloys
Construction	Back pullout design with metal to metal fits
Design methodology	Advanced computer techniques including 3D modelling, FEA & CFD
Design standards	API 685 2 nd : 2011 ATEX EC-Directive 2014/34/EU
Design pressure rating	20 barg @ 20°C
Suction pressure rating	16 barg (standard construction)
Temperature rating	-20°C to 160°C (standard construction)
Performance envelope	
Flowrate	Up to 300m ³ /h
Differential head	Up to 100m
Speed	Up to 3600 rpm
Configurations	Long coupled pump Bareshaft pump Rotating assembly
Frame sizes	040x025x145 to 100x080x265
Design life	30 years (3 years uninterrupted operation)

API 685 OH3 MAGNETIC DRIVE PUMPS

key features

- OH3 single stage inline mounted centrifugal magnetically driven suction pumps.
- 20 bar pumps to API 685 (2nd edition) & ATEX compliant.
- -20°C to 160°C temperature application.
- Shrouded or Semi-Open impellers
- A range of alloys available on request including NACE compliant material.
- Grouted and Non-Grouted Baseplates to API 685 dimensions.
- 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 316L11	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 compliant materials

hydraulic coverage

typical applications

