



API 610 OH1 PROCESS PUMPS

Amarinth B Series pumps are designed where applicable to API 610 latest edition specifications for the Petrochemical, Chemical and Oil & Gas markets and UKEx, ATEX, EACEx, ISO 80079-36 compliant when requested. All API materials are available 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 OH1 single stage, foot mounted centrifugal end suction pumps with centreline discharge manufactured in a variety of alloys
Construction	Back pullout design with metal to metal fits
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 @ 38°C
Suction pressure rating	20 barg
Temperature rating	-40°C to 200°C (standard construction) -40°C to 280°C (with cooling)
Performance envelope	
Flowrate	Up to 1700 m ³ /h
Differential head	Up to 300 m
Speed	Up to 3600 rpm
Configurations	Long coupled pump Bare shaft pump Rotating assembly
Frame sizes	040x025x145 to 300x200x630
Design life	30 years (3 years uninterrupted operation)

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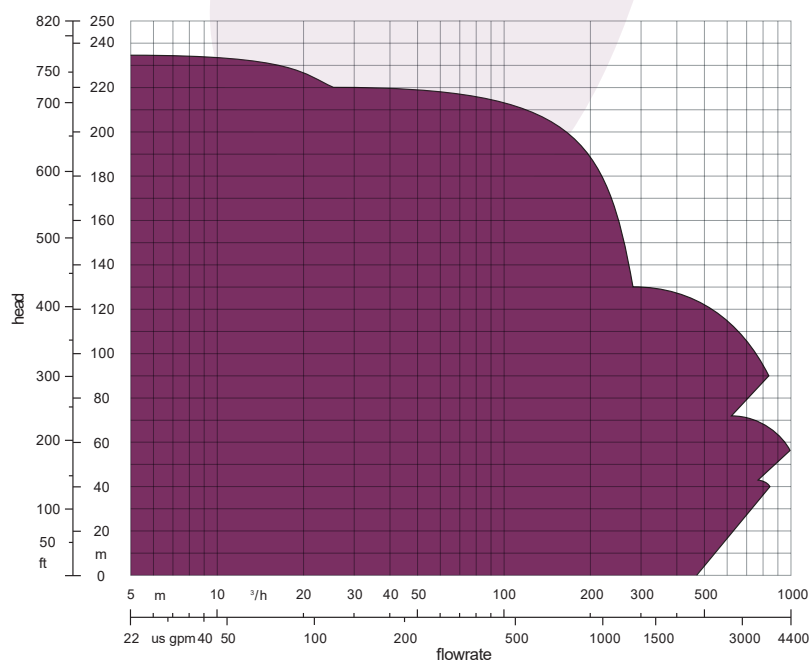
key features

- OH1 single stage foot mounted centrifugal pumps.
- 20 barg pumps to API 610 (latest edition) and ATEX compliance, on application
- -40°C to 250°C temperature applications
- Shrouded or Semi-Open Impellers
- A range of alloys available on request including NACE compliant materials
- Tested to API 610 / ISO 13709 procedures – Head, Flow, NPSH, Noise & Vibration
- A range of API 682 Seals & systems (PED compliant)
- Grouted and Non-Grouted Baseplates
- Low pressure space restricted option

materials

Materials	Casing	Impeller
A8 SS316L / SS316L	ASTMA351 CF3M	ASTM A351 CF3M
I1 Castiron / Castiron	ASTMA278 Class 30	ASTMA278 Class 30
S8 Carbon Steel / SS316L	ASTMA216 WCB	ASTM A217 CF3M
S6 Carbon steel / 12% CrSS	ASTMA216 WCB	ASTM A217 Gr CA 15
D1 Duplex SS/ Duplex SS	ASTMA890 Gr 4A (UNS J92205)	ASTMA890 Gr 4A (UNS J92205)
D2 Super Duplex SS/ Super Duplex SS	ASTMA890 Gr 5A (UNS J93404)	ASTMA890 Gr 5A (UNS J93404)
Hastelloy B / Hastelloy B	ASTMA494 Gr N 7M	ASTMA494 Gr N 7M
Hastelloy C/ Hastelloy C	ASTMA494 Gr CW 12MW	ASTMA494 Gr CW 12MW
Monel / Monel	ASTMA494 Gr M35 1	ASTMA494 Gr M35 1
Titanium / Titanium	ASTMB367 Gr C2	ASTMB367 Gr C2
Customer specified	Other alloys available on request including NACE compliant materials	Other alloys available on request including NACE compliant materials

B series hydraulic coverage



typical applications

- Amine
- Boiler feed
- Booster pump duties
- Caustic transfer
- Export
- Fuel transfer
- Low NPSH capabilities
- LPG
- Potable water
- Produced water
- Refinery process
- Seawater duties
- MEG reclamation
- De-sanding process
- Low shear capabilities



Amarinth

Bentwaters Parks, Rendlesham, Woodbridge,
Suffolk IP12 2TW, United Kingdom
tel: +44 (0)1394 462 120
fax: +44 (0)1394 462 130
e-mail: enquiries@amarinth.com
web: www.amarinth.com



Certificate Number 3720
ISO 9001, ISO 14001,
OHSAS 18001