

API 610 OH1 PROCESS PUMPS

Amarinth B Series pumps are designed where applicable to API 610 11th edition specifications for the Petrochemical, Chemical and Oil & Gas markets and are fully ATEX compliant. 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 including 3D modelling, FEA & CFD
Design standards	API 610 11th : 2010 / ISO 13709 : 2010 ATEX EC-Directive 94/9/EC
Design pressure rating	20 barg @ 38°C
Suction pressure rating	20 barg
Temperature rating	-40°C to 200°C (standard construction) -40°C to 250°C (with cooling)
Performance envelope	
Flowrate	Up to 1500 m ³ /h
Differential head	Up to 300 m
Speed	Up to 3600 rpm
Configurations	Long coupled pump Bareshaft pump Rotating assembly
Frame sizes	040x025x145 to 300x200x510
Design life	30 years (3 years uninterrupted operation)

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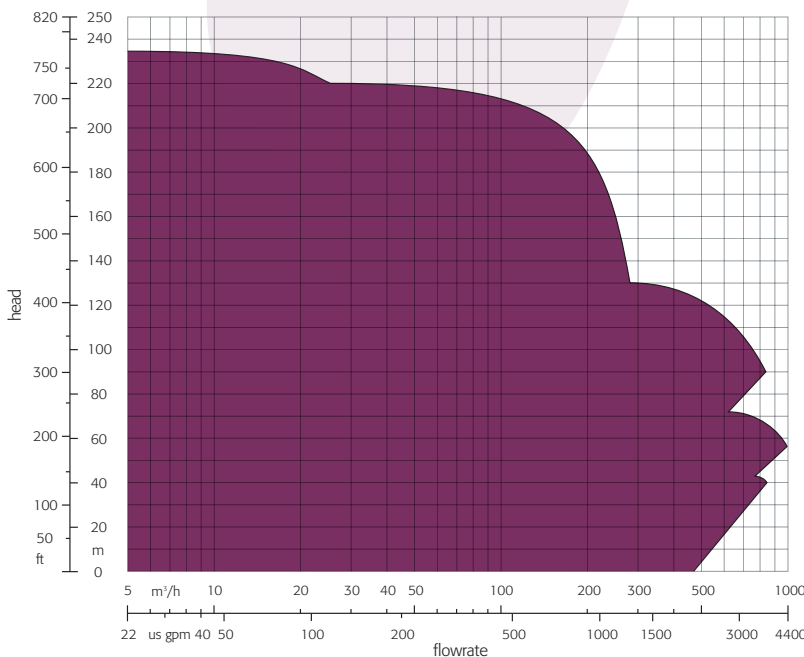
key features

- OH1 single stage foot mounted centrifugal pumps.
- 20 barg pumps to API 610 (11th edition) & 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 SS 316L / SS 316L	ASTM A351 CF 3M	ASTM A351 CF 3M
I1 Cast iron / Cast iron	ASTM A278 Class 30	ASTM A278 Class 30
S8 Carbon Steel / SS 316L	ASTM A216 WCB	ASTM A217 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)
Hastelloy B / Hastelloy B	ASTM A494 Gr N 7M	ASTM A494 Gr N 7M
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
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

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



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Certificate Number 3720
ISO 9001, ISO 14001,
OHSAS 18001