

API 610 OH1 PROCESS PUMPS

Amarinth B Series pumps are designed where applicable to API 610 10th 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 10th : 2004 / ISO13709 : 2003 ATEX EC-Directive 94/9/EC
Design pressure rating	20 bar g @ 20°C
Suction pressure rating	20 bar g
Temperature rating	-40°C to 200°C (standard construction) -40°C to 250°C (with heat sink and fan)
Performance envelope	
Flowrate	Up to 1100m ³ /h
Differential head	Up to 225m
Speed	Up to 3600 rpm
Configurations	Long coupled pump Bareshaft pump Rotating assembly
Frame sizes	040x025x145 to 300x250x510
Design life	20 years (3 years uninterrupted operation)

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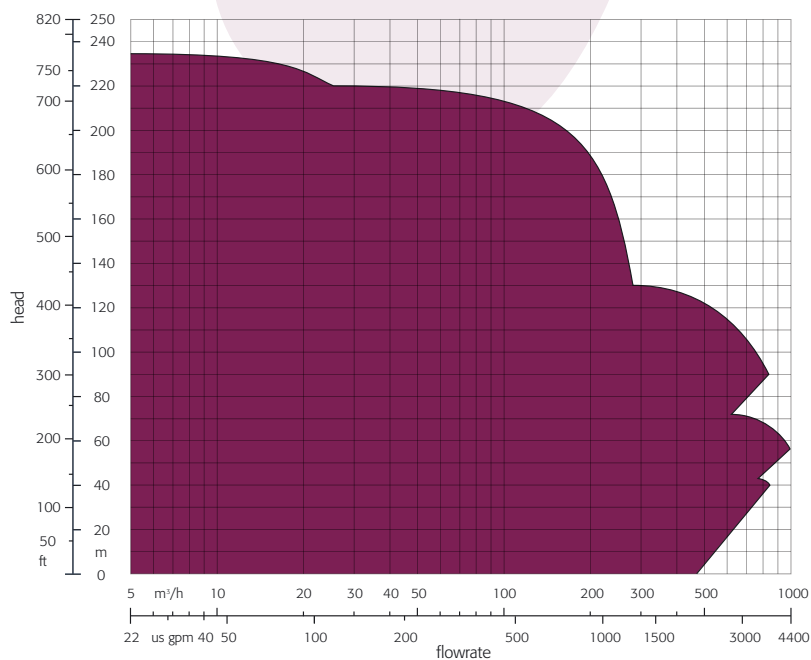
key features

- OH1 single stage foot mounted centrifugal pumps.
- 20 bar pumps to API 610 (10th edition) & ATEX compliant
- -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 API610 / ISO13709 procedures – Head, Flow, NPSH, Noise & Vibration
- A range of API 682 Seals & systems (PED compliant)
- Grouted and Non-Grouted Baseplates

materials

Materials	Casing	Impeller
A8 - SS 316 / SS 316	ASTM A351 CF-3M	ASTM A744 CF-8M
I1 - Cast Iron / Cast Iron	ASTM A278 Class30	ASTM A278 Class30
S8 - Carbon Steel / SS 316	ASTM A216 WCB	ASTM A744 CF-8M
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 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

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



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