

## 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.



<b>General description</b>	A range of OH1 single stage, foot mounted centrifugal end suction pumps with centreline discharge manufactured in a variety of alloys.
<b>Construction</b>	Back pullout design with metal to metal fits
<b>Design methodology</b>	Advanced computer techniques including 3D modelling, FEA & CFD
<b>Design standards</b>	API 610 10th : 2004 / ISO13709 : 2003 ATEX EC-Directive 94/9/EC
<b>Design pressure rating</b>	20 bar g @ 20°C
<b>Suction pressure rating</b>	20 bar g
<b>Temperature rating</b>	-40°C to 200°C (standard construction) -40°C to 250°C (with heat sink and fan)
<b>Performance envelope</b>	
<b>Flowrate</b>	Up to 1100m <sup>3</sup> /h
<b>Differential head</b>	Up to 225m
<b>Speed</b>	Up to 3600 rpm
<b>Configurations</b>	Long coupled pump Bareshaft pump Rotating assembly
<b>Frame sizes</b>	040x025x145 to 300x250x510
<b>Design life</b>	20 years (3 years uninterrupted operation)

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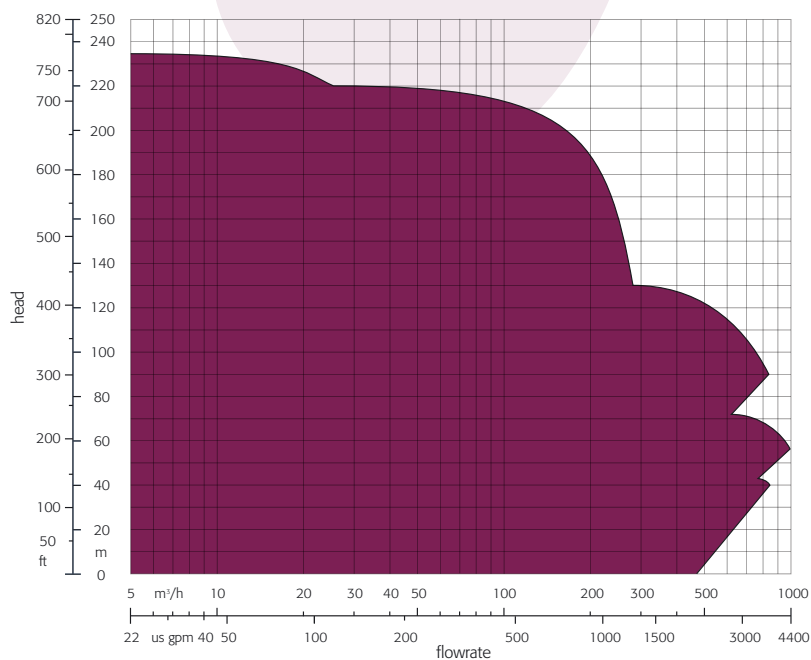
## key features

- 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
<b>A8 - SS 316 / SS 316</b>	ASTM A351 CF-3M	ASTM A744 CF-8M
<b>I1 - Cast Iron / Cast Iron</b>	ASTM A278 Class30	ASTM A278 Class30
<b>S8 - Carbon Steel / SS 316</b>	ASTM A216 WCB	ASTM A744 CF-8M
<b>S6 - Carbon steel / 12% Cr SS</b>	ASTM A216 WCB	ASTM A217 Gr CA 15
<b>D1 - Duplex SS / Duplex SS</b>	ASTM A890 Gr 4A (UNS J92205)	ASTM A890 Gr 4A (UNS J92205)
<b>D2 - Super Duplex SS / Super Duplex SS</b>	ASTM A890 Gr 5A (UNS J93404)	ASTM A890 Gr 5A (UNS J93404)
<b>Hastelloy B / Hastelloy B</b>	ASTM A949 Gr N-7M	ASTM A949 Gr N-7M
<b>Hastelloy C / Hastelloy C</b>	ASTM A494 GrCW-12MW	ASTM A494 GrCW-12MW
<b>Monel / Monel</b>	ASTM A494 GrM35-1	ASTM A494 GrM35-1
<b>Customer specified</b>	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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