

## API 610 OH5 LOW PRESSURE PROCESS PUMPS

Amarinth OH5 G Series pumps for the Petrochemical, Chemical and Gas markets, are designed to API 610 latest edition specifications and are fully UKEx, ATEX, EACEx, ISO 80079-36 compliant when requested. 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 OH5 vertical inline overhung pumps available as foot, frame or pipeline mounted variants and manufactured in a variety of alloys
Construction	Backpullout 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 @ 20°C
Suction pressure rating	3.5 barg (standard construction)
Temperature rating	-5°C to 120°C (standard construction)
Performance envelope	
Flowrate	Up to 500 m <sup>3</sup> /h
Differential head	Up to 240 m
Speed	Up to 3600 rpm
Configurations	Close-coupled pump
Frame sizes	040x025x145 to 200x150x510
Design life	30 years (3 years uninterrupted operation)

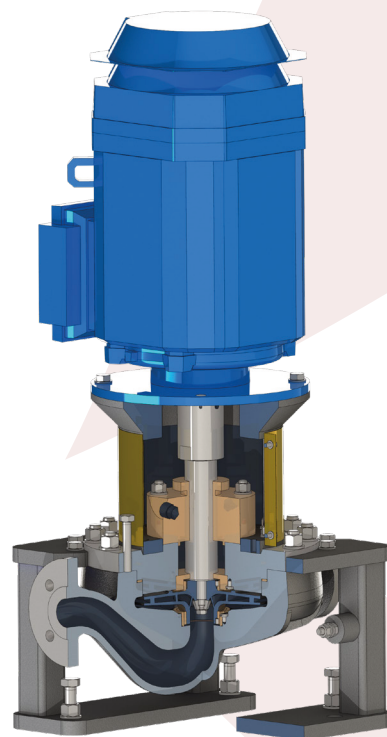
# API 610 OH5 PROCESS PUMPS

## key features

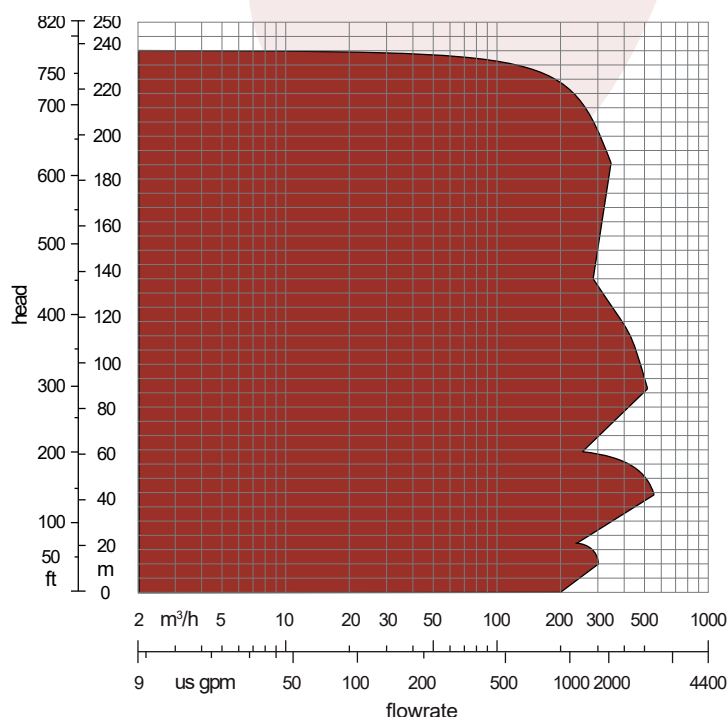
- OH3 single stage inline mounted centrifugal pumps
- 20 bar pumps to API 610 (latest edition) and ATEX compliance on application
- -5°C to 120°C temperature applications
- Shrouded or semi-open impellers
- A range of alloys available on request including NACE compliant materials
- Tested to API 610 / ISO 13709 procedures – head, flow, NPSH, noise, and vibration
- A range of API 682 seals and systems (PED compliant)

## materials

Material Options	Casing	Impeller
A8 SS316L / SS316L	ASTM A351 CF3M	ASTM A351 CF3M
I1 Castiron / Castiron	ASTMA278 Class 30	ASTMA278 Class 30
S8 Carbon Steel / SS316L	ASTM A216 WCB	ASTM A217 CF3M
S6 Carbon steel / 12% Cr SS	ASTM A216 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 6A (UNS J93380)	ASTMA890 Gr 6A (UNS J93380)
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



## G Series hydraulic coverage



## typical applications

- Solvent
- Utility water
- Demineralized water
- Hydrocarbon
- Produced water
- Waste water & HC traces
- SDAF aqueous solution
- Oily water
- Sour water
- MED water
- Sea Water
- Lubrication oil



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