

ISO 5199 CHEMICAL PUMPS

Amarinth N Series pumps are designed to both ISO5199 and ATEX specifications for the Chemical and Pharmaceutical markets, though they can be easily modified for Petrochemical applications. A full range of material options are available as standard to match your application, 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 single stage centrifugal end suction pumps with centreline discharge manufactured in a variety of alloys. All pumps and individual components are fully interchangeable with the equivalent Girdlestone 900 series units.

Construction

Front and back pullout design with metal to metal fits

Design methodology

Advanced computer techniques including 3D modelling, FEA & CFD

Design standards

ISO5199 : 2002
ATEX EC-Directive 94/9/EC

Design pressure rating

16 bar g @ 20°C

Suction pressure rating

16 bar g (long coupled)
3.5 bar g (close coupled)

Temperature rating

-40°C to 200°C (long coupled)
-40°C to 250°C (long coupled with heat sink & fan)
-5°C to 120°C (close coupled)

Performance envelope

Flowrate

Up to 1100m³/h

Differential head

Up to 225m

Speed

Up to 3600 rpm

Configurations

Long coupled pump
Close coupled motor pump
Bareshaft pump
Rotating assembly

Frame sizes

040x025x145 to 250x200x510

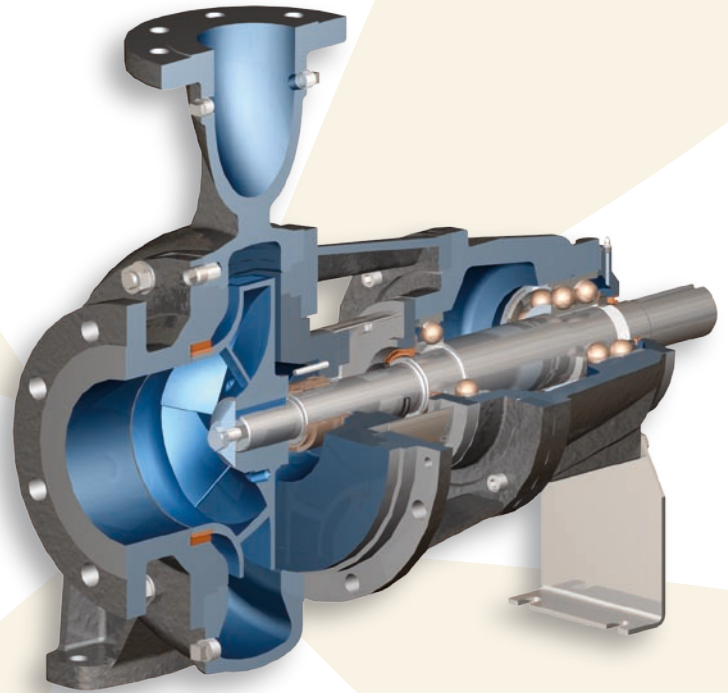
Design life

20 years (2 years uninterrupted operation)

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key features

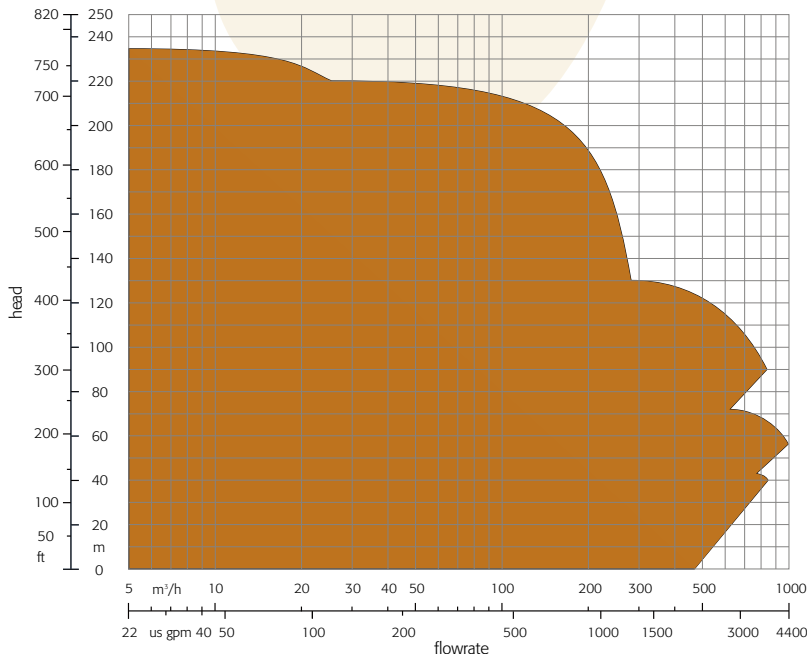
- 16 bar pumps to ISO5199 : 2000
- Full ATEX compliance
- All internal components interchange directly with Girdlestone 910 & 920 series pumps
- Semi open or shrouded impellers
- Front & back pullout with face to face fits for easy maintenance & accurate alignment
- Long & close coupled models
- Major spare parts available off the shelf
- A range of alloys available on request including NACE compliant materials
- -40°C to 250°C temperature applications



materials

Materials	Casing	Impeller
SS 316 / SS 316	ASTM A744 CF-8M	ASTM A744 CF-8M
Cast Iron / Cast Iron	BS EN 1561 Gr EN-GJL-250	BS EN 1561 Gr EN-GJL-250
Cast Iron / SS 316	BS EN 1561 Gr EN-GJL- 250	ASTM A744 CF-8M
SG Iron / SS 316	BS EN 1563 Gr EN-GJS-400-18-LT	ASTM A744 CF-8M
Carbon Steel / SS 316	ASTM A216 WCB	ASTM A744 CF-8M
Carbon steel / 12% Cr SS	ASTM A216 WCB	ASTM A217 Gr CA 15
Duplex SS / Duplex SS	ASTM A890 Gr 1B CD-4MCuN	ASTM A890 Gr 1B CD-4MCuN
Super Dup SS / Super Dup 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

N Series hydraulic coverage



typical applications

- Acetic acids
- Caustic transfer
- Chemical processing
- Cooling water
- Fuel transfer
- Latex
- Low NPSH capabilities
- LPG
- Nutshell filter media
- Produced water
- Seawater duties
- Starch / Glucose
- Sugar processing



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Certificate number: 3720/03