

ISO 5199 INLINE CHEMICAL PUMPS

Amarinth K Series pumps are designed to both ISO 5199 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.

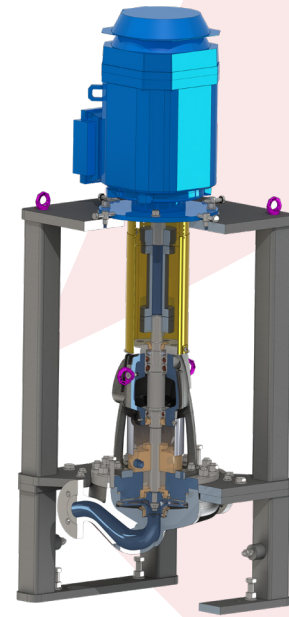


General description	A range of vertical inline overhung pumps available as foot, frame or pipeline mounted variants and manufactured in a variety of alloys
Construction	Back pullout design with metal-to-metal fits
Design methodology	Advanced computer techniques, 3D modelling, FEA & CFD
Design standards	ISO 5199 : 2002 ATEX EC- Directive 2014/34/EU
Design pressure rating	20 barg @ 20°C
Suction pressure rating	16 barg (standard construction)
Temperature rating	-40°C to 160°C (standard construction)
Performance envelope	
Flow rate	Up to 550 m ³ /h
Differential head	Up to 240 m
Speed	Up to 3600 rpm
Configurations	Long-coupled pump Bareshaft pump Rotating assembly
Frame sizes	040x025x145 to 200x150x510
Design life	20 years (2 years uninterrupted operation)

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key features

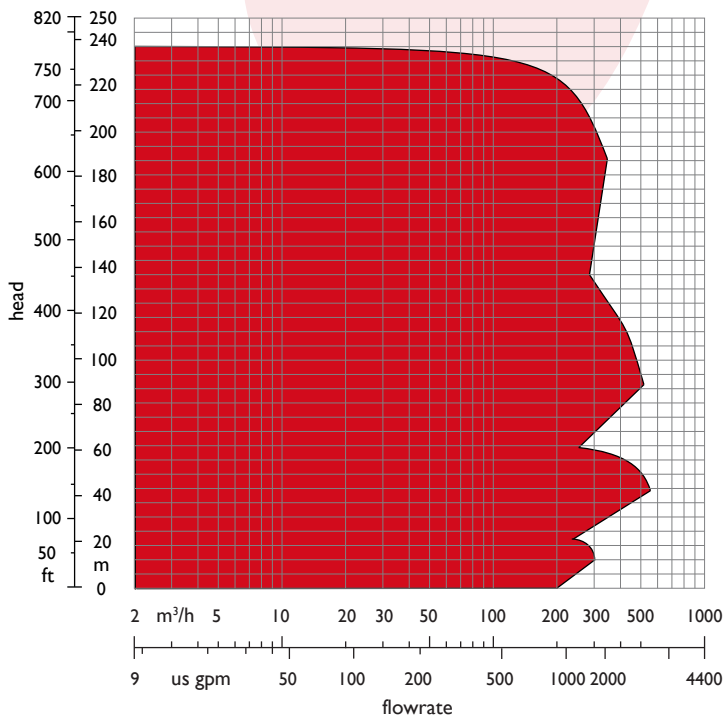
- Single stage inline mounted centrifugal pumps
- 20 bar pumps to ISO 5199 (2002) and ATEX compliance on application
- -40°C to 160°C temperature applications
- Shrouded or semi-open impellers
- A range of alloys available on request including NACE compliant materials
- Tested to ISO 5199 procedures – head, flow, NPSH, noise, and vibration
- A range of seals and systems (PED compliant)



materials

Material Options	Casing	Impeller
SS 316 / SS 316	ASTM A744 CF 8M	ASTM A744 CF 8M
Cast Iron / Cast Iron	EN 1561 Gr EN GJL 250	EN 1561 Gr EN GJL 250
SG Iron / SS 316	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 4A (UNS J92205)	ASTM A890 Gr 4A (UNS J92205)
Super Duplex SS / Super Duplex SS	ASTM A890 Gr 6A (UNS J93380)	ASTM A890 Gr 6A (UNS J93380)
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

K Series hydraulic coverage



typical applications

- Solvent
- Water
- Utility water
- Demineralized water
- Brackish water
- De-aeriated
- Sea water
- Potable water
- Pharmaceutical
- Service water



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