

Electric Submersible Pump

PUMP OVERVIEW

ClydeUnion S&N Pumps seawater lift submersible pumps are water and propylene glycol filled pumps specially designed to surpass the corrosive characteristics of seawater. They are precision built, hydraulically and dynamically balanced and heavy-duty seawater rated providing the offshore oil and gas industry secure, reliable and long-lasting seawater handling capability.

FEATURES

The ClydeUnion S&N Pumps seawater lift submersible pump is a preconfigured design that offers a broad range of features that save you both time and money.

All pump casing parts are zinc-free bronze with heavy-duty and high efficiency nickel-aluminum bronze impellers as a standard. Impellers are dynamically balanced to minimise vibration and maximise service life. Replaceable high class bronze or stainless steel neck rings provide additional protection against wear. Dual bronze bowl bearings are consistently lubricated by the pumped liquid, helping reduce failures and maintenance. Pump-grade corrosion and wear resistant stainless steel shaft is aligned with spiral fluted bushings and over dimensioned duplex for low vibrations and long life. The submersible three phase rewindable wet stator motor is wound with high-temperature resistant PE2 wiring and incorporates CoolAct Technology® - internally sealed, active circulation cooling. Cooling is guaranteed in submerged operation and does not require fluid flow past the motor in seawater up to 40° C (104° F).

The pump features silicon-carbide mechanical shaft sealing and tilting axial thrust bearings that guarantee high thrust absorption.



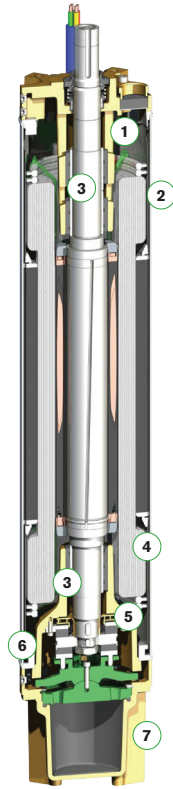
TYPICAL APPLICATIONS

- Prefill water
- Drill water
- Potable & sanitary water
- Wash down water
- Water curtains
- Cooling water
- Fire fighting water
- Ballast water
- Mud mixing water

FEATURES + BENEFITS

- 1 Upper bearing casing
- 2 Motor shroud
- 3 Motor shaft
- 4 Motor windings
- 5 Internal active cooling system
- 6 Lower bearing casing
- 7 Motor end bell

- 1.15 motor service factor - 40°C (-40°F) motor windings
- No fluid flow required up to 40°C (104°F) for cooling purposes
- Fully repairable pumps and motors
 - Motor is fluid filled and fully rewindable



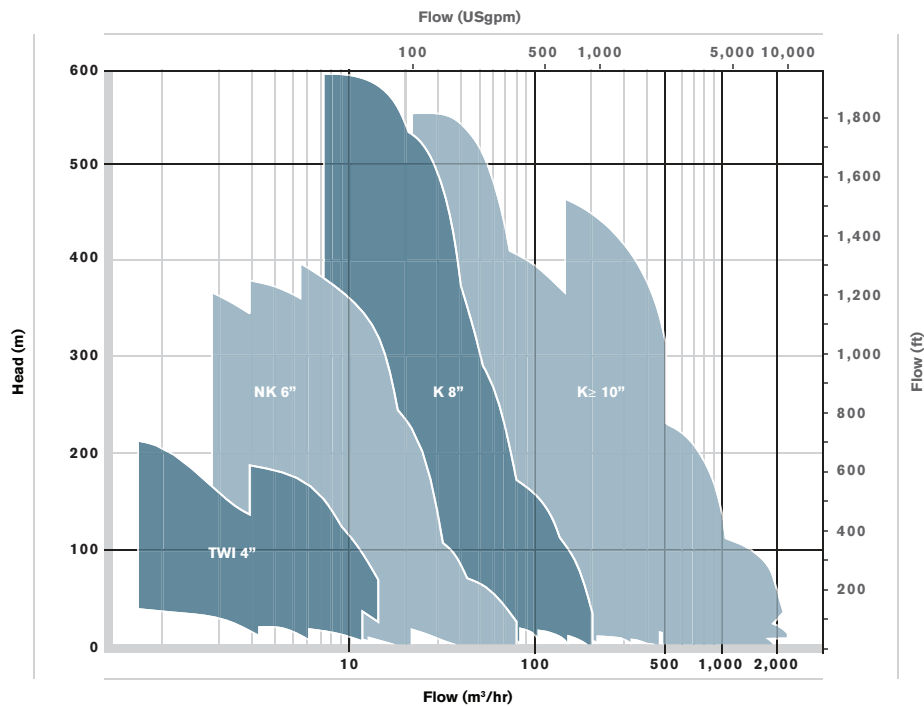
TYPICAL PUMP CONSTRUCTION

PART DESCRIPTION	DIN	ASTM
DISCHARGE PIECE	G CuSn10	ZFB B-427 C90700
NRV CASING	G CuSn10	ZFB B-427 C90700
PUMP SHAFT SLEEVES	1.4401	316 L
IMPELLER	Ni Alum Brz.	NAB B148 C95800
NECK RINGS	1.4580	318
STAGE CASINGS	G CuSn10	ZFB B-427 C91600
INTAKE SCREEN/HARDWARE	1.4571	316 Ti

TYPICAL MOTOR CONSTRUCTION

PART DESCRIPTION	DIN	ASTM
UPPER BEARING - SPIRAL GROOVED	Graphite	Graphite
MOTOR WINDINGS	PE2 + PA	40°C
MOTOR STATOR HOUSING	1.4571	316 Ti
MOTOR END BELL	G CuSn10	ZFB B-427 C90700

RANGE COVERAGE CHART



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