

SON

VERTICAL TURBINE PUMP

PUMP OVERVIEW

The ClydeUnion S&N Pumps, SON vertical line shaft pumps are pumps built for seawater service. Each pump is specifically engineered for offshore applications providing offshore secure, reliable, and long-lasting seawater handling.

FEATURES

The ClydeUnion S&N Pumps, SON line of pumps are custom manufactured. All pump casing parts are powder coated cast iron, bronze or nickel-aluminum bronze as a standard. Duplex stainless steel is optional. The vertical line shaft pump features a flanged, fabricated steel or fiberglass discharge case. Impellers are locked to the shaft with 316 SS or K-500 Monel collets and are dynamically balanced to minimise vibration and maximise service life. Replaceable SAE 660 bronze neck rings provide additional protection against wear. Phenolic backed cutless rubber bearings or vesconite bearings are consistently lubricated by the pumped liquid, helping reduce failures and maintenance. The pump features high-grade pump shaft quality 316 SS or K-500 monel for high horse power applications. The assembly is equipped with zinc or aluminum anodes for cathodic protection against electrolysis.

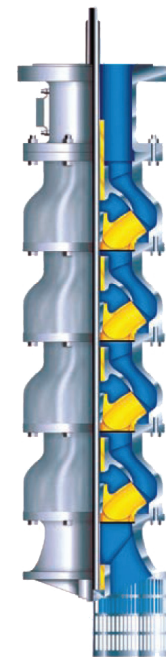
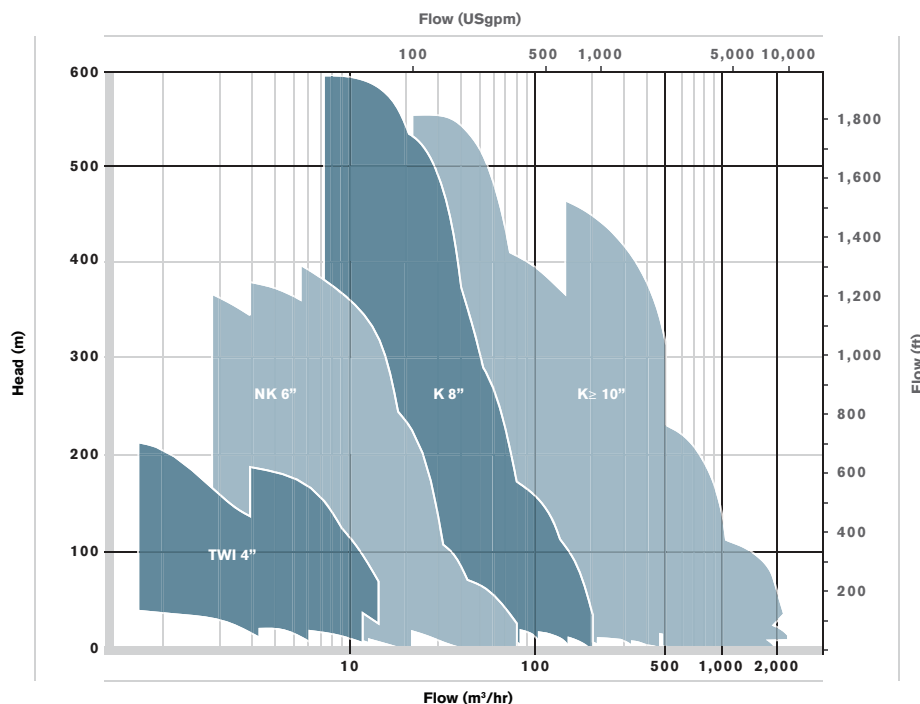
TYPICAL APPLICATIONS

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



Pump Discharge Case	Optional
Fabricated steel with flanged outlet	Cast Iron and Nickel-Aluminum-Bronze (in some sizes)
Internally powder coated	Fabricated stainless steel
External inorganic zinc coated with polyurethane rubber top coat	Duplex and super duplex
Equipped with cathodic protection	
Pump Bowls	Optional
Cast iron	Nickel-Aluminum-Bronze
Internally powder coated	Duplex stainless steel
External inorganic zinc coated with polyurethane rubber top coat	
Phenolic backed cutless rubber bearing or vesconite	
Impellers	Optional
Enclosed cast bronze	Nickel-Aluminum-Bronze
Locked to shaft with type 316 SS or K-500 Monel Collets	Duplex stainless steel
	Keyed impellers
Shaft	Optional
Type 316 SS/ 17-4PH (for High - HP Applications)	K-500 Monel
Pump shaft quality "PSQ"	
Suction Screen	Optional
2 pole, multi-stage, ring section (CUP-FT) & barrel case (CUP-FK) boiler feed pumps	Copper-Nickel
Single stage vertical in-line pump (ANSI)	
Suction Bell	Optional
Cast iron	Nickel-Aluminum-Bronze
Internally powder coated	Duplex stainless steel
External inorganic zinc coated with polyurethane rubber top coat	
Broached bronze bearing	
Strainer	
Copper nickel	
Fasteners	Optional
Fluoropolymer coated type 316 SS	K-500 Monel
No thread connections	Special materials available upon request

RANGE COVERAGE CHART



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