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
- Internally powder coated
- External inorganic zinc coated with polyurethane rubber top coat
- Equipped with cathodic protection

**Pump Bowls**

Optional

- Cast iron
- Internally powder coated
- External inorganic zinc coated with polyurethane rubber top coat
- Phenolic backed cutless rubber bearing or vesconite

**Impellers**

Optional

- Enclosed cast bronze
- Locked to shaft with type 316 SS or K-500 Monel Collets

**Shaft**

Optional

- Type 316 SS/ 17-4PH (for High - HP Applications)
- Pump shaft quality “PSQ”

**Suction Screen**

Optional

- 2 pole, multi-stage, ring section (CUP-FT) & barrel case (CUP-FK) boiler feed pumps
- Single stage vertical in-line pump (ANSI)

**Suction Bell**

Optional

- Cast iron
- Internally powder coated
- External inorganic zinc coated with polyurethane rubber top coat

**Strainer**

- Copper nickel

**Fasteners**

Optional

- Fluoropolymer coated type 316 SS
- K-500 Monel

**No thread connections**

Special materials available upon request

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**RANGE COVERAGE CHART**

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