

BOTTOM INTAKE SUBMERSIBLE PUMP

BIO-FOULING PREVENTION SYSTEM

PUMP OVERVIEW

ClydeUnion S&N Pumps bottom intake submersible pumps are water and propylene-glycol filled pumps that feature a compact, high-efficient, corrosion-resistant pump design that functions in low water levels. The pump has the technical features of a submersible pump with the benefits of a line shaft pump offering the offshore oil and gas industry secure, reliable, and long-lasting seawater handling capabilities.

FEATURES

The structure of the ClydeUnion S&N Pumps bottom intake pump is equivalent to an inverted submersible motor pump. All pump casing parts are zinc-free bronze with heavy-duty and high efficiency nickel-aluminum bronze impellers as a standard. The single stage or multi-stage pump incorporates double silicon-carbide mechanical shaft sealing for environmental safety and tilting axial thrust bearings and guarantees high thrust absorption. The stator shroud is zinc-free bronze. The pump incorporates a (ZFB) suction port with an anti-vortex plate that helps prevent pump cavitation. The submersible three phase rewindable wet stator motor is wound with high-temperature resistant PE2 wiring.

S&N PUMPS®



TYPICAL APPLICATIONS

Emergency de-ballast systems

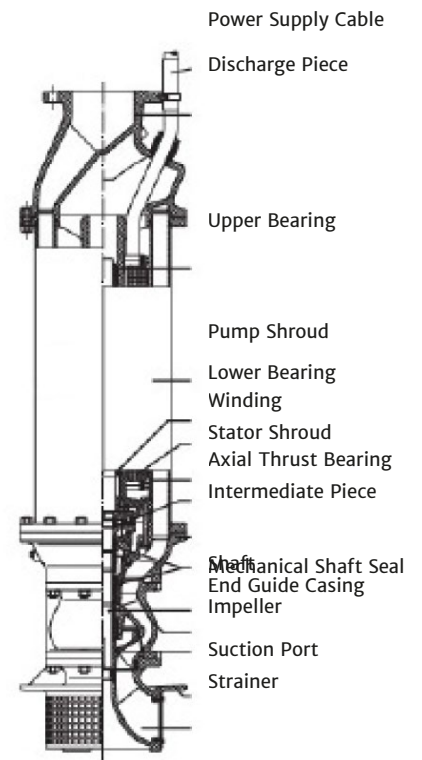
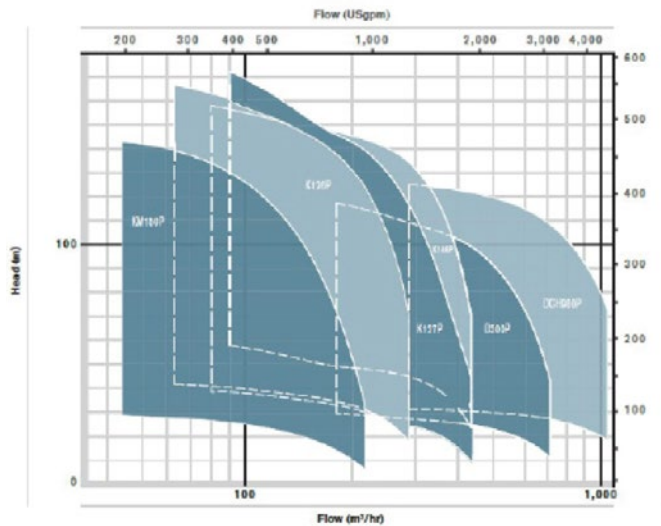
TYPICAL PUMP CONSTRUCTION

PART DESCRIPTION	DIN	ASTM
Discharging Piece	G CuSn10	ZFB B-427 C91600
NRV Casing	G CuSn10	ZFB B-427 C91600
Pump shaft sleeves/coupling	1.4401/1.4462	316 GR F316/318 LN
Impeller	Ni Alum Brz.	NAB B148 C95500
Neck rings	1.4580	316 Ti
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, 20°C	PE2 + PA	40°C
Motor stator housing	1.4571	316 Ti
Motor end bell	G CuSn10	Z FB B-427 C91600

RANGE COVERAGE CHART



- 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

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