

LOVE EACH OTHER



## High Efficiency Single Stage Double Suction Centrifugal Pump

# GS



### APPLICATIONS:

- ◆ General Industry
- ◆ Building Services
- ◆ Cooling Water Supply
- ◆ Water Treatment
- ◆ Fire Fighting and Sprinkler Systems
- ◆ Pressure Boosting
- ◆ MVAC



### TYPE OF STRUCTURES



Horizontal



Vertical

Share, Synchronize, Implement, Improve

# HIGH EFFICIENCY SINGLE STAGE DOUBLE SUCTION CENTRIFUGAL PUMP

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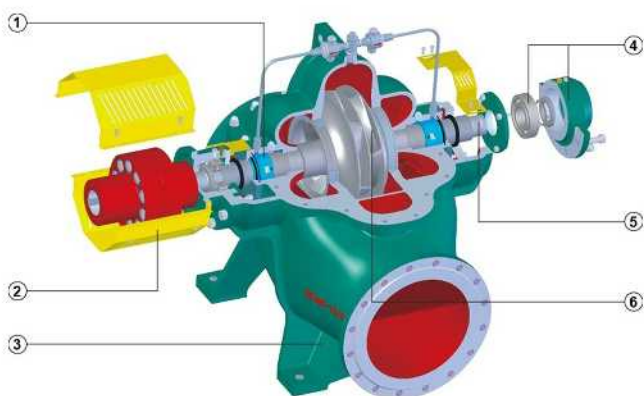
### Pump - Technical Data

Max. Flow	3780m <sup>3</sup> /h
Max. Head	190 m
Max. Liquid Temperature	80 °c
Max. Working Pressure	16 bar as standard Cast Iron (HT200) 24 bar available on request Cast Iron (QT400)

### Pump - Material

Casing	Cast Iron (HT200/QT400-18)
Impeller	Brass (H65) Bronze (QSn4-8) Stainless Steel (AISI304/AISI316)
Pump Shaft	Stainless Steel (AISI304/AISI316)

### Structure Features



#### 1 Sealing

- High quality mechanical seals to minimize the leakage risk in long run
- Common structure has good interchangeability, which is suitable for mechanical seal, non-asbestos packing and injected soft packing as well
- Stainless steel shaft sleeve is convenient for maintenance
- Split packing cover has enough space for packing replacement

#### 2 Protective Cover

- Split structure is designed to enhance safety feature and reliability requirement accordance to IEC standard

#### 3 Casing

- Double volute water chamber is to balance radial force, with advantages of good strength, low force for bearing and sealing, long operation period

- The suction chamber is designed with a guiding rib, with advantages of no whirl in suction, stable operation, silent, and good cavitations performance
- Anti - friction and anti-corrosion painting is adopted for suction & discharge flow channel that have low hydraulic loss
- The pump cover is auto correct that convenient for installing
- The casing shell is designed with reinforcing rib that has good rigidity and appearance

#### 4 Bearing

- Short span and enlarged diameter design have stable operation and long operation period
- Grease lubricating is adopted for medium & small pump that infuse oil online
- Online vibration & temperature monitoring devices are provided to ensure safety operation
- Water cooling structure is suitable for high temperature liquid delivering

#### 5 Shaft

- It is designed thicker that has good rigidity and stable operation
- Complete sealing design is adopted without connecting with liquid that convenient for maintenance
- Short time reverse rotation is allowable, and the shaft can be used for both rotations

#### 6 Impeller

- It is designed with three-dimensional flow theory and CFD calculation & simulation that have advantages of high efficiency range and good cavitation performance
- Equipped with remodeled impeller that has wide performance range
- Adjacent vanes are interlaced design and V-type discharge that have advantages of good flowing, low pulsation, low vibration and high efficiency
- The seal ring is stepped designed that have low volume loss
- Metal mould, digital machining, and accurate roughcast are adopted

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