NEWTONUS PUMP

SPLIT CASING CENTRIFUGAL PUMP
TN model

We are professional engineers for energy saving pump & piping

General

Application :

-Commercial Building (Transfer, booster, fire fighting/hydrant)
-Industrial, power plant (Transfer, booster, fire fighting/hydrant)
-Water Treatment (Transfer, booster)
-Chiller/Air Conditioning, heating (Circulation)
-Agriculture, farming, golf course (Irrigation, sprinkling, circulation)
-Mining (Dewatering pontoon, sprinkling)
-Trailler/mobil/pontoon pump (Dewatering, transfer, flood control))
-Sea water desalination (Transfer, booster)

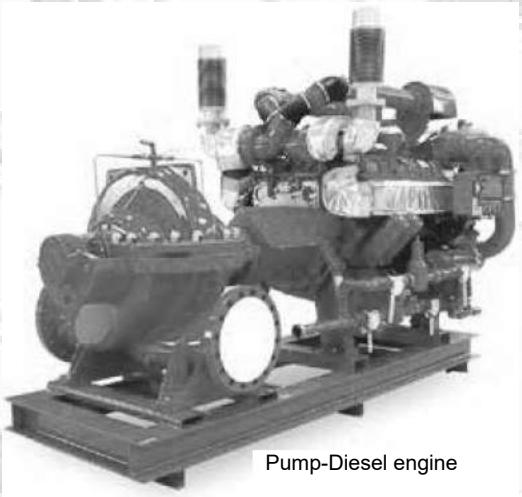
Pump-Electric motor

Specification :

-Maximum flow 2500 M3/hour
-Maximum head 200 meter
-Liquid temperatur -15 deg.C to 120 deg.C
-Maximum working pressure 25Bar
-Inlet dia.DN100-DN1400 & outlet dia. DN80-DN1200
-Liquid pH 6 - 8, clean liquid non grain/fiber, non chemical

Electric motor/ Diesel engine :

-Electric motor 3Ph/380V-660V/50Hz/2Pole or 4Pole
-Diesel Engine 300 rpm to 3000 rpm/12V-24V
-Maximum power : 350 kW



Pump-Diesel engine

Features :

-The pump is single stage, axially split volute casing with double suction impeler, and possible to install horisontal or vertical.
-High quality mechanical seal fitted as standard to all pumps, and gland packing are possible on application
-Istallation FCL/tyre coupling with accurate shaft alignment to maintain low noise, highest performance and long life time.
-Drive shaft end of horisontal pump optionally on the left or right side.

Engineering & pricing solution :

The energy saving & long life time of pump is our focus. The pump energy saving is not only determined by pump efficiency, but also depending by pipe diameter, controller, etc. Therefore we are ready to give consultation or trainning of piping engineering (Free of charge) before purchase the pumps, for as below :

-Calculation to determine the pump flow & total head, pipe diameter & material (inlet/ outlet pipe)
-To avoid cavitation, the suction pipe (negative/positive suction) should be calculated max. suction lift (Hs).
-Selection of pump controller according to the application system
-Selection of pump type according to flow, total head, material and electrical power
-Selection of cheaper price with similar or better pump & application

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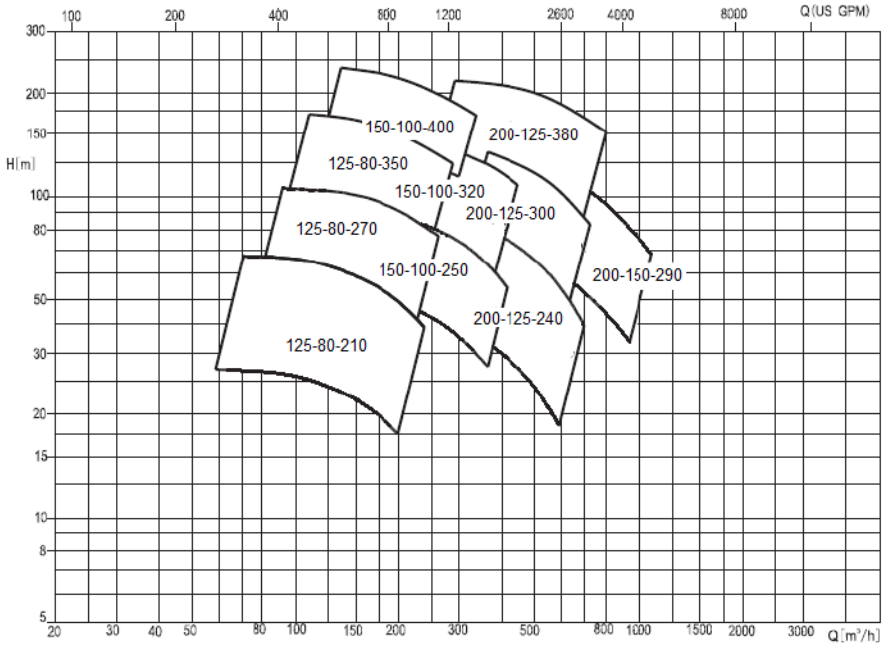
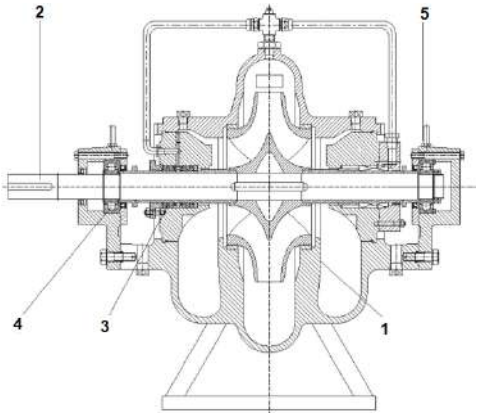
Technical

Performance curve :

2900 Rpm/ 50Hz

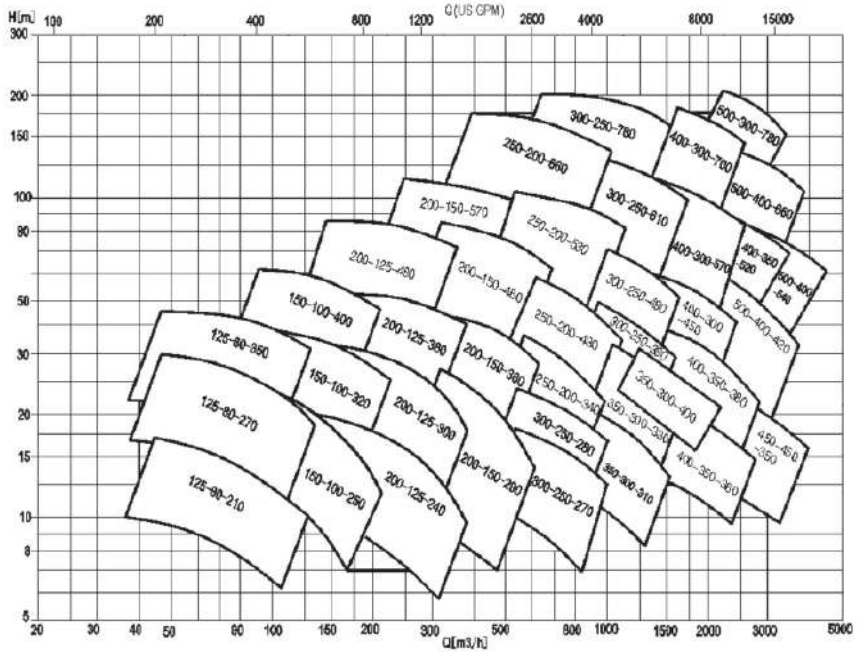


Component & Material :



-1. Casing : Cast iron/SS 304
-2. Shaft : SS420/ Duplex
-3. Seal : Mech. seal/ Gland packing
-4. Bearing : SKF
-5. Protection
-6. Impeler : Cast iron/Bronze/SS 304
-7. Wear ring : Cast iron/SS
-8. Shaft sleeve : SS/ Duplex

1500 Rpm/ 50Hz



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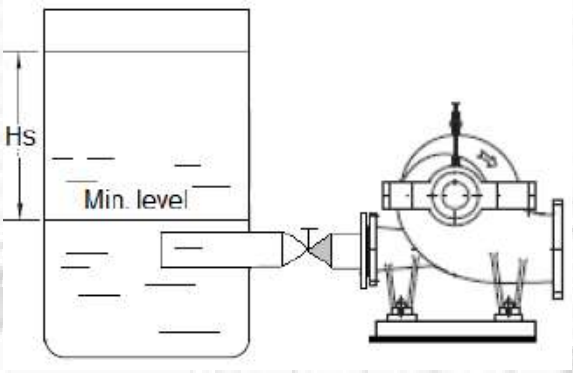
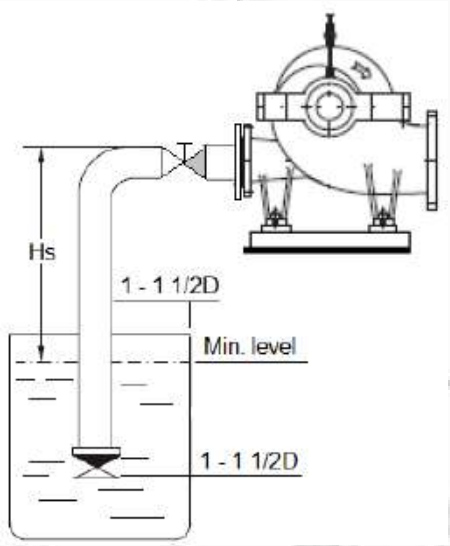
Suction piping installation:

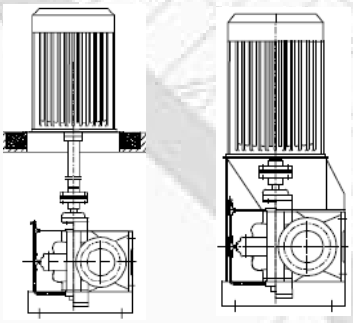


Positif suction, is recomended istallation

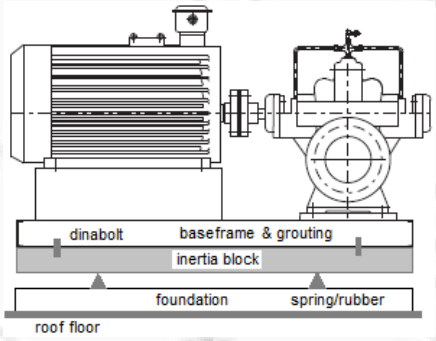


Negative suction, Hs (Max suction lift) should be calculated to avoid cavitation.

Vertical pump installation :

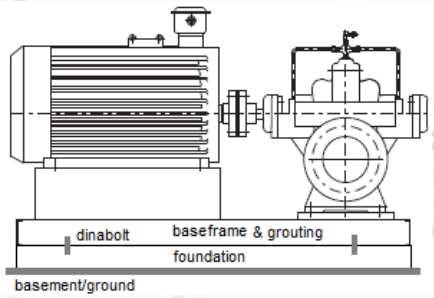


Horisontal pump installation :

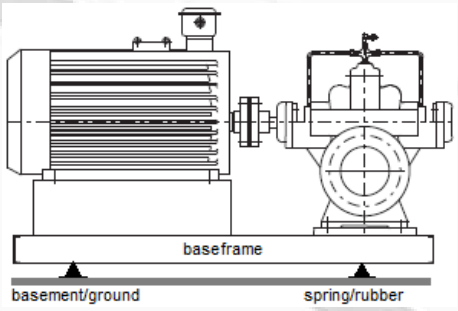


Pump installation, P > 2,2KW on the roof floor.

To avoid high vibtration and noise accuring due to effect of rotation, the pump should be installed inertia block & spring/rubber vibration damper. This installation can avoid the damage of building constructions.



Installation of Pump>2.2KW on the ground



Not recomended pump installation. The base frame will deflection and shaft misalignment.

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