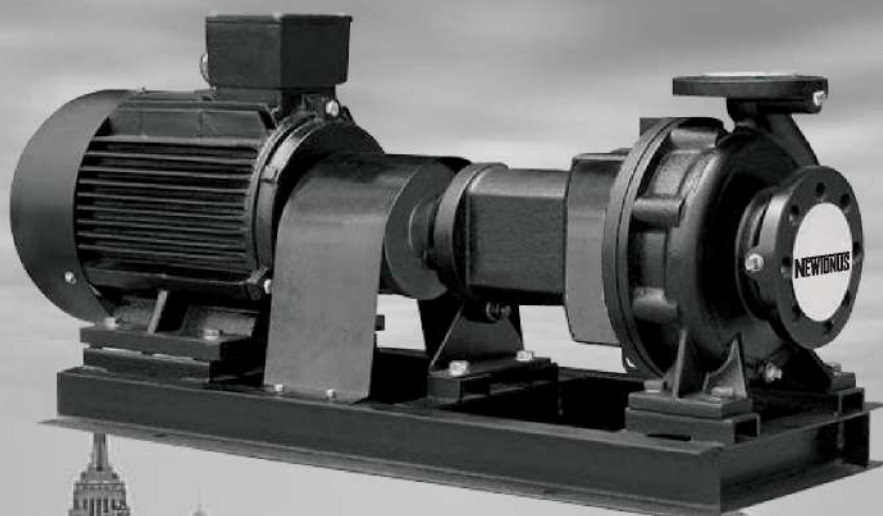


**NEWTONUS** PUMP



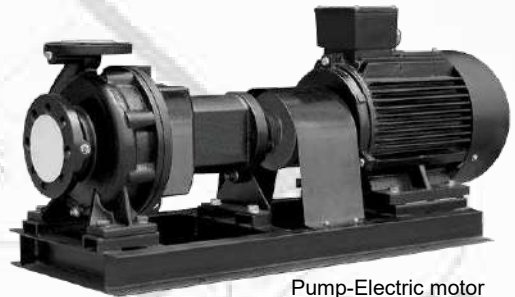
**END SUCTION CENTRIFUGAL PUMP**  
**EN Model**

We are Professional Engineers  
for Energy Saving Pump and Piping

[www.newtonuspump.com](http://www.newtonuspump.com)

## 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, sprinkling)
- Trailer/mobile/pontoon pump (Dewatering, transfer, flood control)
- Sea water desalination (Transfer, booster)



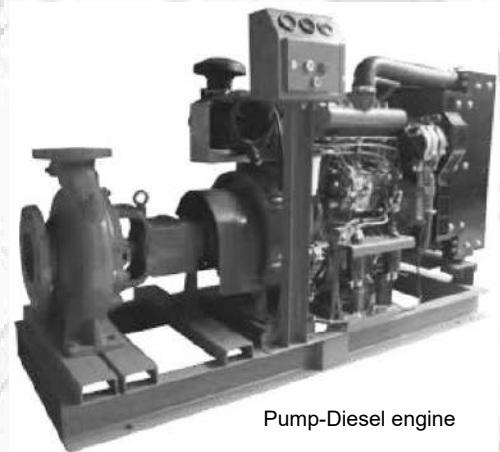
Pump-Electric motor

## Specification :

- Maximum flow 900 M3/hour
- Maximum head 170 meter
- Liquid temperatur -15 deg.C to 120 deg.C
- Maximum working pressure 16Bar
- Inlet dia. DN50-DN250 & outlet dia. DN32-DN200
- 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 : 200 kW



Pump-Diesel engine

## Features :

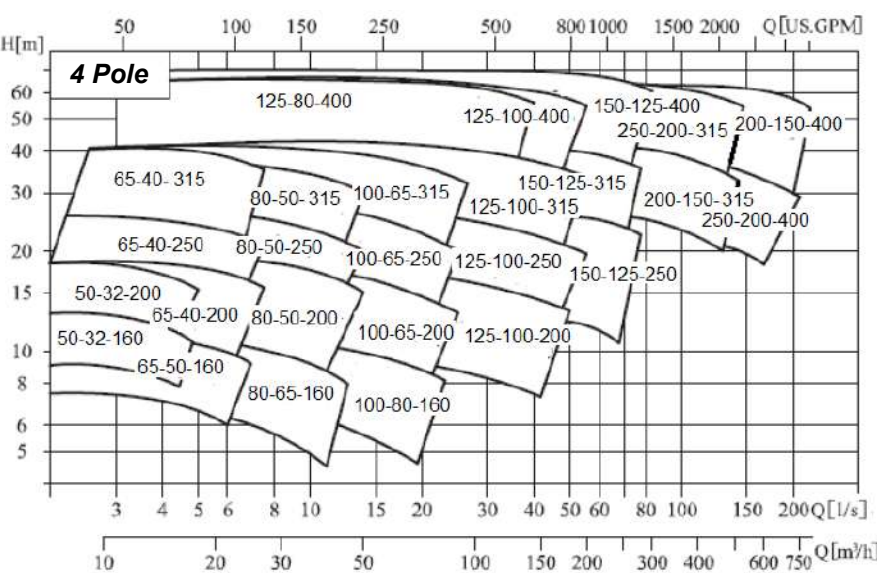
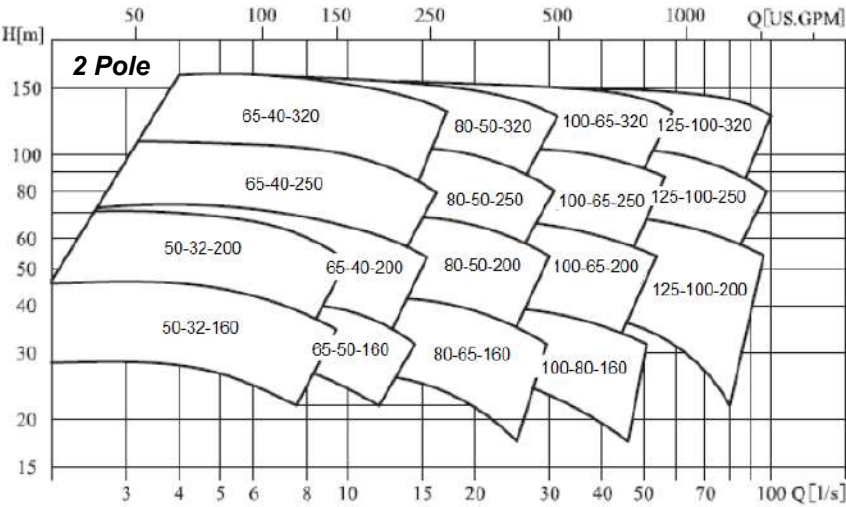
- Back pull out design, so without must disturb pump casing and piping when pump service.
- High quality mechanical seal fitted as standard to all pumps, and gland packing are possible on application
- Installation FCL/tyre coupling with accurate shaft alignment to maintain low noise, highest performance and long life time.

## Engineering & pricing solution

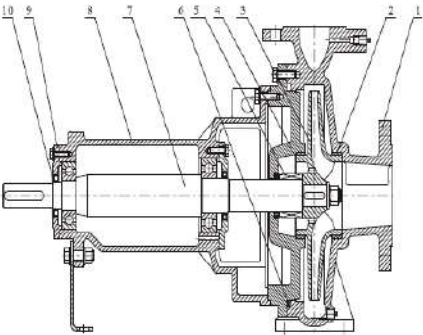
The energy saving & long life time of pump is our focus. The pump energy saving is not only determined by pump efficiency, but also depending by pipe diameter, controller, etc. Therefore we are ready to give consultation or training of piping engineering (Free of charge) before purchase the pumps, for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

Performance curve :

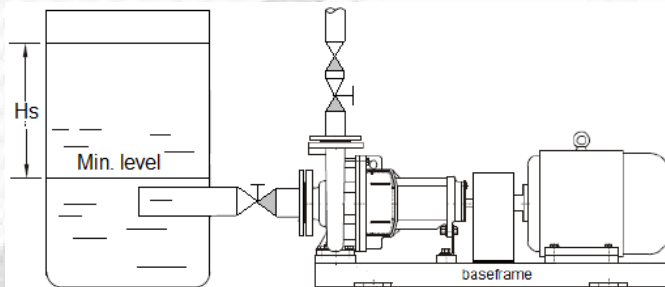


Component & Material :

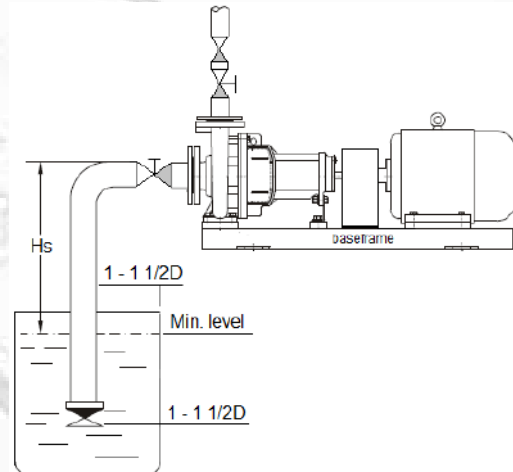


| No. | Name            | Material               |
|-----|-----------------|------------------------|
| 1   | Casing          | Cast Iron              |
| 2   | Wear ring       | Cast Iron              |
| 3   | Impeller        | Cast Iron/Bronze/SS304 |
| 4   | Casing cover    | Cast Iron              |
| 5   | Mechanical seal | Carbon/Silicon Carbide |
| 6   | O ring          | NBR                    |
| 7   | Shaft           | SS 20Cr13              |
| 8   | Bearing housing | Cast Iron              |
| 9   | Bearing cover   | Cast Iron              |
| 10  | Oil seal        | NBR                    |

### Suction piping installation:

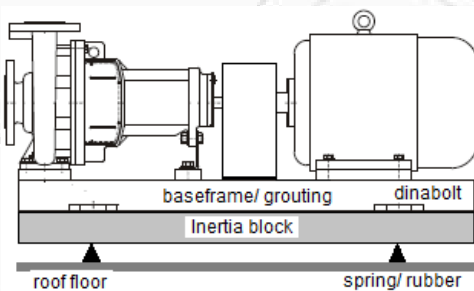


Positif suction, is recommended installation



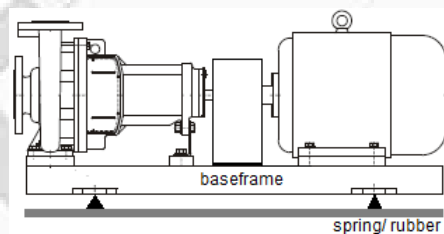
Negative suction.  $P > 2.2\text{KW}$ ,  $H_s$  (Max suction lift) should be calculated to avoid cavitation.  
Recommended  $P < 2.2\text{KW}$ ,  $H_s = 1\text{Mtr}-4\text{Mtr}$

### Pump installation :

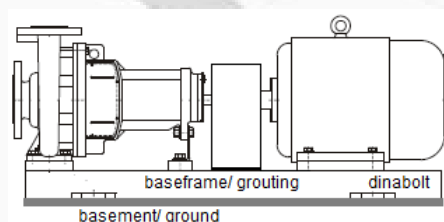


Pump installation,  $P > 2.2\text{KW}$  on the roof floor.

To avoid high vibration and noise occurring 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.



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



Installation of Pump  $> 2.2\text{KW}$  on the ground

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Workshop : Jln. ME. Wira, No.88, Parung - Bogor Jawa Barat  
Website : [www.newtonuspump.com](http://www.newtonuspump.com)  
Youtube (Video training pompa) : Newtonus Pump

### Dealer :

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Banjarmasin/ South Kalimantan : CV. Sinar Mega Bintang