NEWTONUS PUMP

END SUCTION CENTRIFUGAL PUMP-STAINLESS STEEL

- ER model (SS 304)
- EX model (SS 316)

We are professional engineers for energy saving pump & piping

General

Application :

-Chemical Industrial : Process/circulation; transfer; booster
-General Industrial : Process/circulation; transfer; booster
-Oil & Gas : Process/circulation; transfer; booster
-Water Treatment : Process/circulation; transfer; booster
-Chiller/Air Conditioning, boiler/heating : Circulation; transfer
-Agriculture, farming, gardening, water fountain: Booster to irrigation, sprinkle
-Sea water desalination : Transfer, booster
-Cooling process : Circulation; transfer

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 - 9, clean liquid non grain/fiber

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

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
-Istallation 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 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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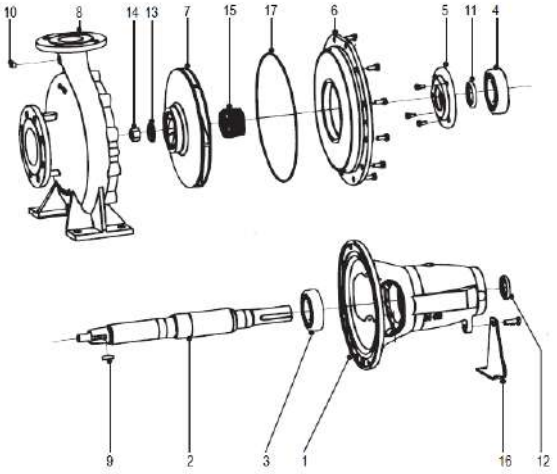
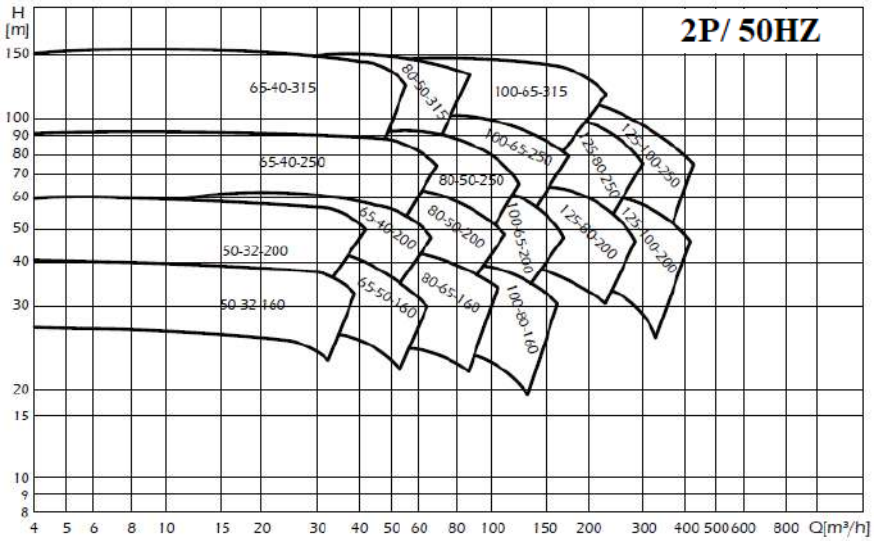
Technical

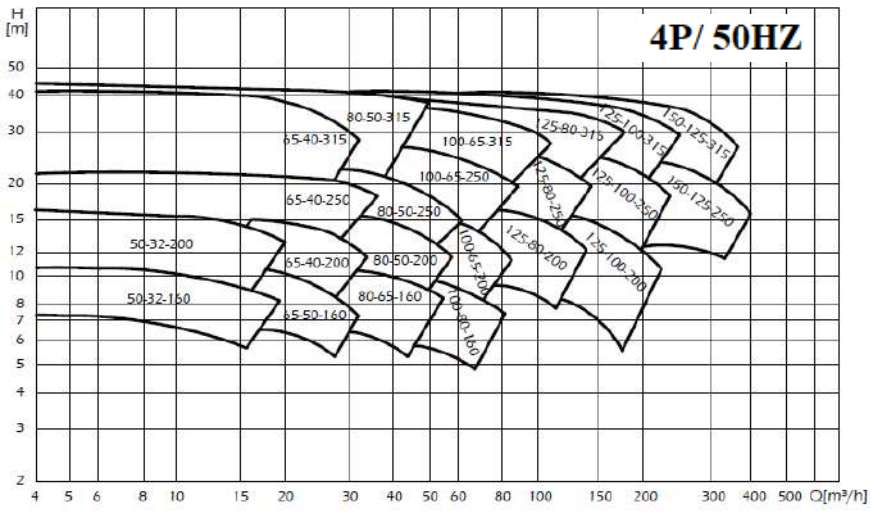
Component & Material :



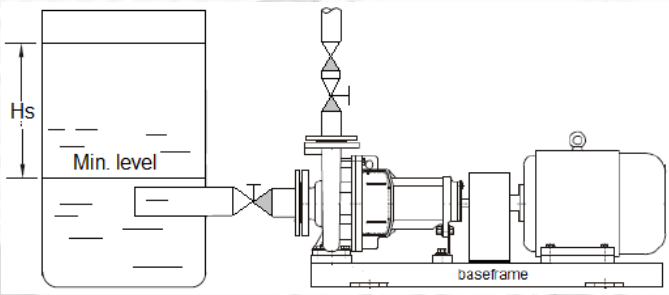
1. Bearing
2. Shaft : SS316
3. Bearing-Pulley end
4. Bearing-Impeler end
5. Bearing cover : CI
6. Backplate : SS304/SS316
7. Impeler : SS304/SS316
8. Casing : SS304/SS316
9. Impeler key : SS304/SS316
10. Casing plug : SS304/SS316
11. Dust seal-Impeler end : NBR
12. Dust seal-Pulley end : NBR
13. Impeler washer : SS304/SS316
14. Impeler nut : SS304/SS316
15. Mechanical seal : SIC-SIC/Viton*
16. Support foot : Steel
17. O ring : Viton

Performance curve :

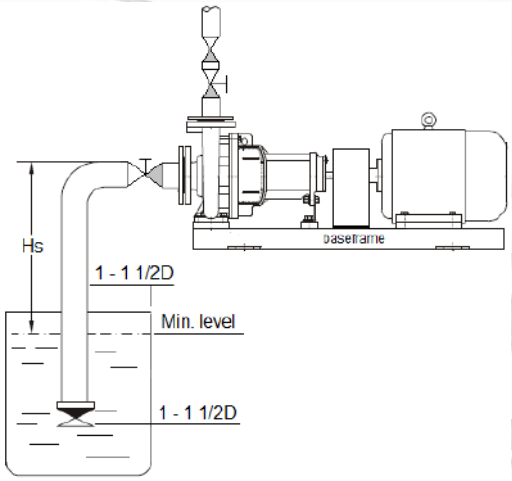




Suction piping installation:

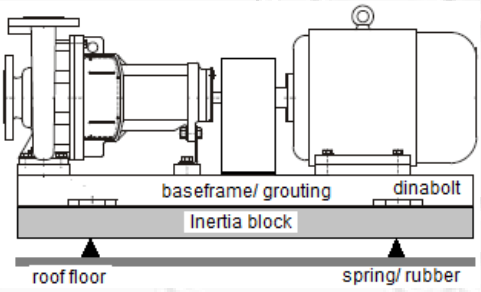


Positif suction, is recomended istallation



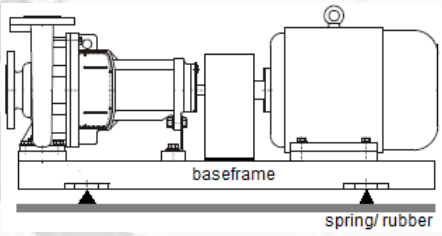
Negative suction. P > 2.2KW, Hs (Max suction lift) should be calculated to avoid cavitation. Recomended P < 2,2KW, Hs = 1Mtr-4Mtr

Pump installation :

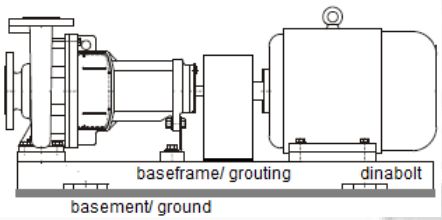


Pump installation, P > 2,2KW on the roof floor.

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.



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



Installation of Pump>2.2KW on the ground

PT. NEWTONUS POMPA INDONESIA
Office : Alamanda Tower, Lt.2, Kav.23-24, Jln. TB. Simatupang, South Jakarta
Tlp.No. : 021-2276 0303, 0812 1349 9321, 0877 7067 8615
Email : info@newtonuspump.com/ engineering.newtonus@gmail.com
Workshop : Jln. ME. Wira, No.88, Parung - Bogor Jawa Barat
Website : www.newtonuspump.com
Youtube (Video training pompa) : Newtonus Pump

Dealer :
Jakarta : PT. Nusantara Teknik (www.nusantarapompa.com)
Banjarmasin/ South Kalimantan : CV. Sinar Mega Bintang