NEWTONUS PUMP

FIRE FIGHTING/HYDRANT PUMP

COMPLY TO NFPA 20 STD

- END SUCTION PUMP-ENF model
- SPLIT CASING PUMP-TNF model
- VERTICAL TURBIN PUMP-NNF model

We are professional engineers for energy saving pump & piping

General

Application :

-Commercial building : Hotel, hospital, office, mall, etc (Hydrant/nozzel, sprinkler)
-Industry : Process, assembling, convection, chemical (Hydrant/nozzel, springkle)
-Power plant (Hydrant nozzel, sprinkle)

Specification :
End suction pump :
-Flow rate 100-750 US Gpm
-Maximum head 150 meter
-Maximum working pressure 16 bar

Split casing pump :
-Flow rate 750-2500 US Gpm
-Maximum head 200 meter
-Maximum working pressure 25 bar

Vertical turbin pump :
-Flow rate 100-1500 US Gpm
-Maximum head 200 meter
-Maximum working pressure 25 bar

Electric motor/ Diesel engine :

-Electric motor 3Ph/380V-400V/50Hz/2Pole or 4Pole
-Diesel Engine 300 rpm to 3000 rpm/12V-24V
-Maximum power : 350 kW

Vertical turbin pump/ NNF model : 100-1500 Gpm @ 200 Mtr

End suction pump/ ENF model : 100-750 Gpm

Split casing pump/ TNF model : 750-2000 Gpm

Features :

-Complete package of fire fighting pump (Electric fire pump, diesel engine fire pump, joky pump & panel control) to ensure the optimum benefit and comfort for your comercial building and industrial.
-A wide range fire fighting pump available of 3 option model : End suction pump (ENF model), Split casing pump (TNF model and vertical turbin (NNF model)

Engineering & pricing solution

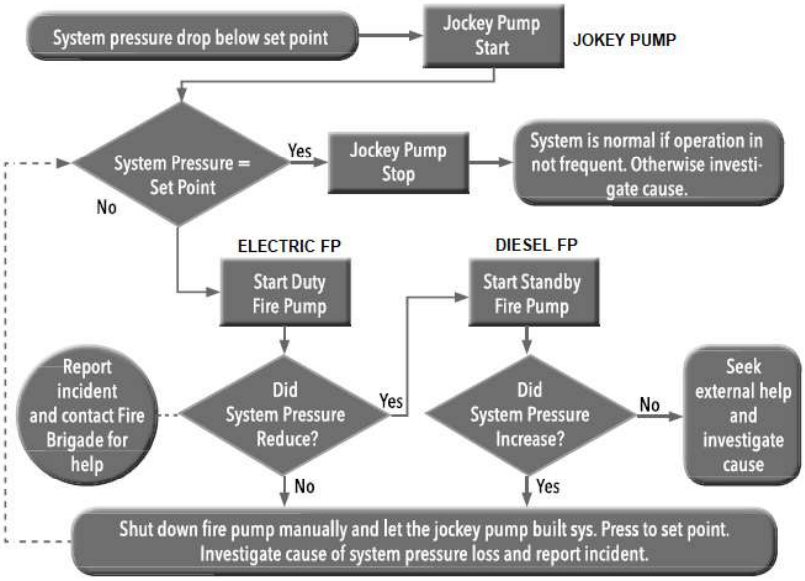
The energy saving & long life time of pump is our focus. The pump energy saving is not only determined by pump efficiency, but also depending by pipe diameter, controller, etc. Therefore we are ready to give consultation or trainning of piping engineering (Free of charge) before purchase the pumps, for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

Konsultasi : WA, BiP 0877 7067 8615, email : engineering@newtonus.com, engineering.newtonus@gmail.com

Technical

Operation flow chart

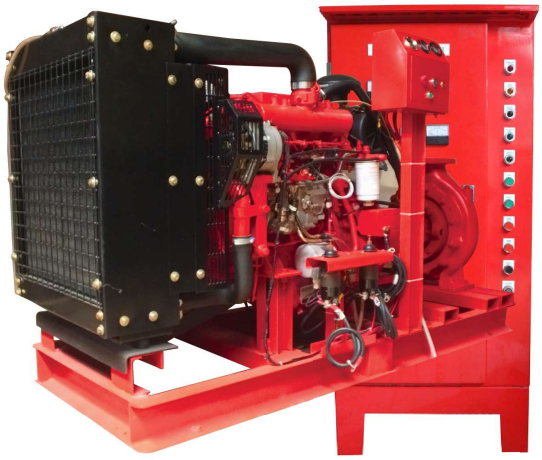


Package of fire fighting pump

1. Jokey pump & Panel control
2. Electric fire pump & Panel control
3. Diesel fire pump & Panel control

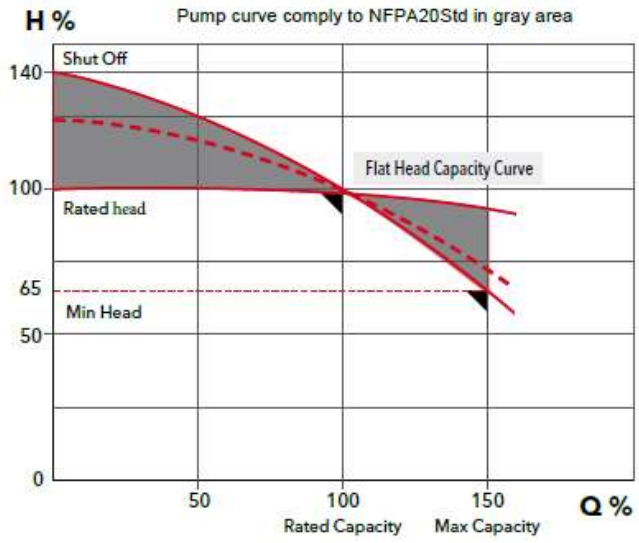
1.Jokey pump & Panel control

2.Electric fire pump & Panel control



3.Diesel fire pump & Panel control

Performace curve



The fire fighting pump curve should be selected according to requirements of NFPA 20Std as above

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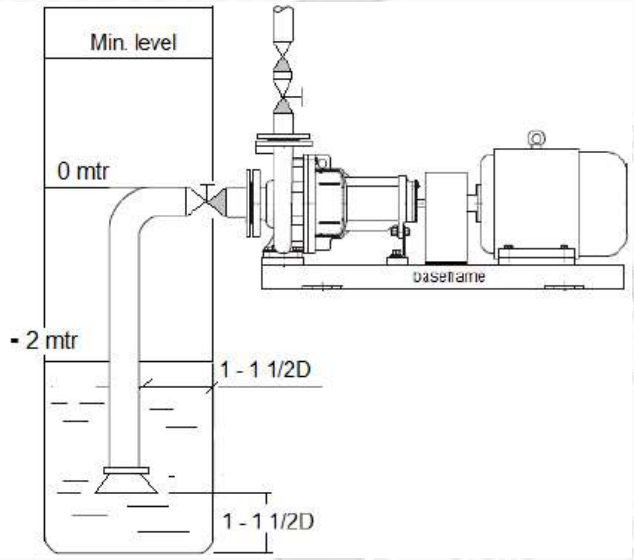
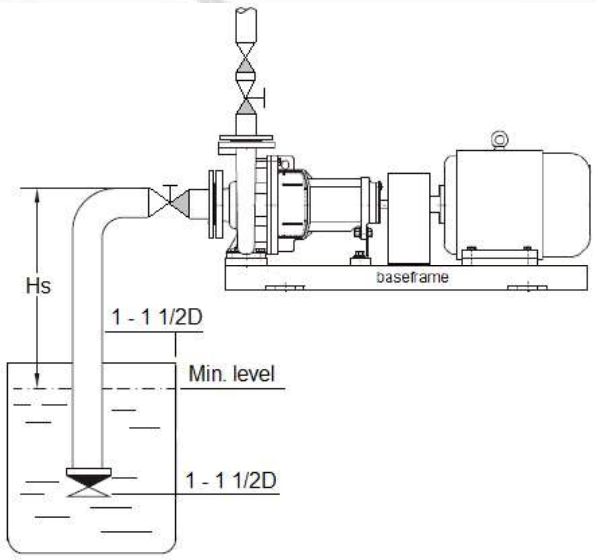
Suction piping installation:

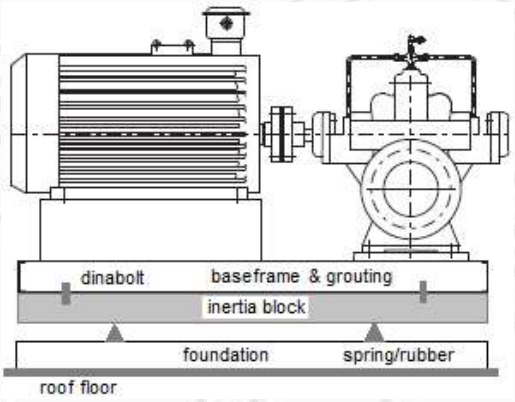


Positif suction, is recomended istallation comply to NFPA 20 Std. Pump is permitted to suct of water until minus (-2) meter.



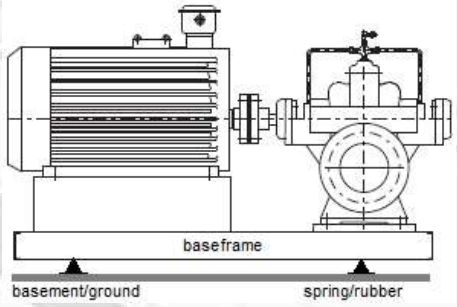
Negative suction, general standart installation. Hs (Max suction lift) > 2 mtr, should be calculated to avoid cavitation. Recommeded Hs is 1 mtr - 2 mtr.

Pump installation :

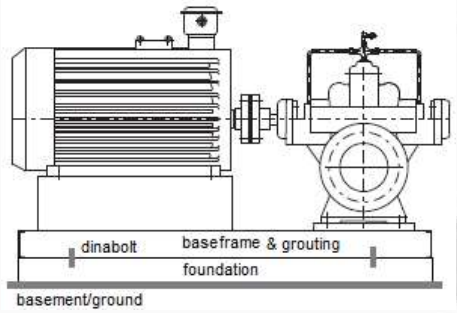


Pump installation on the roof floor.

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 on the basement/ground