



FAN: BINOLARNING SANTEXNIKA QURILMALARI VA JIXOZLARI

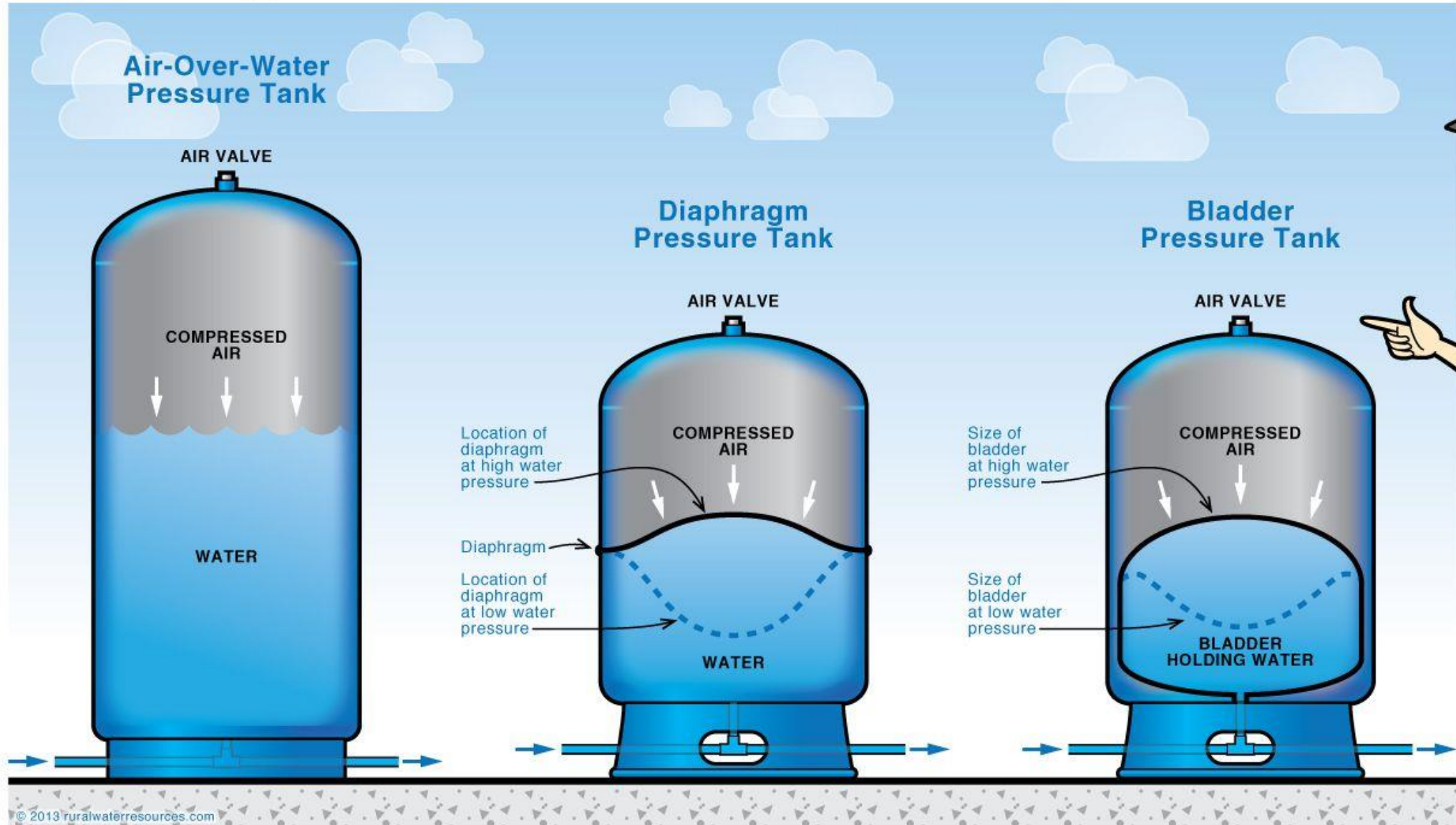
Mavzu: Binolardagi sovuq suv bilan ta'minlash tizimlarida bosim ko'tarish uchun qo'llaniladigan qurilmalar.

REJA:

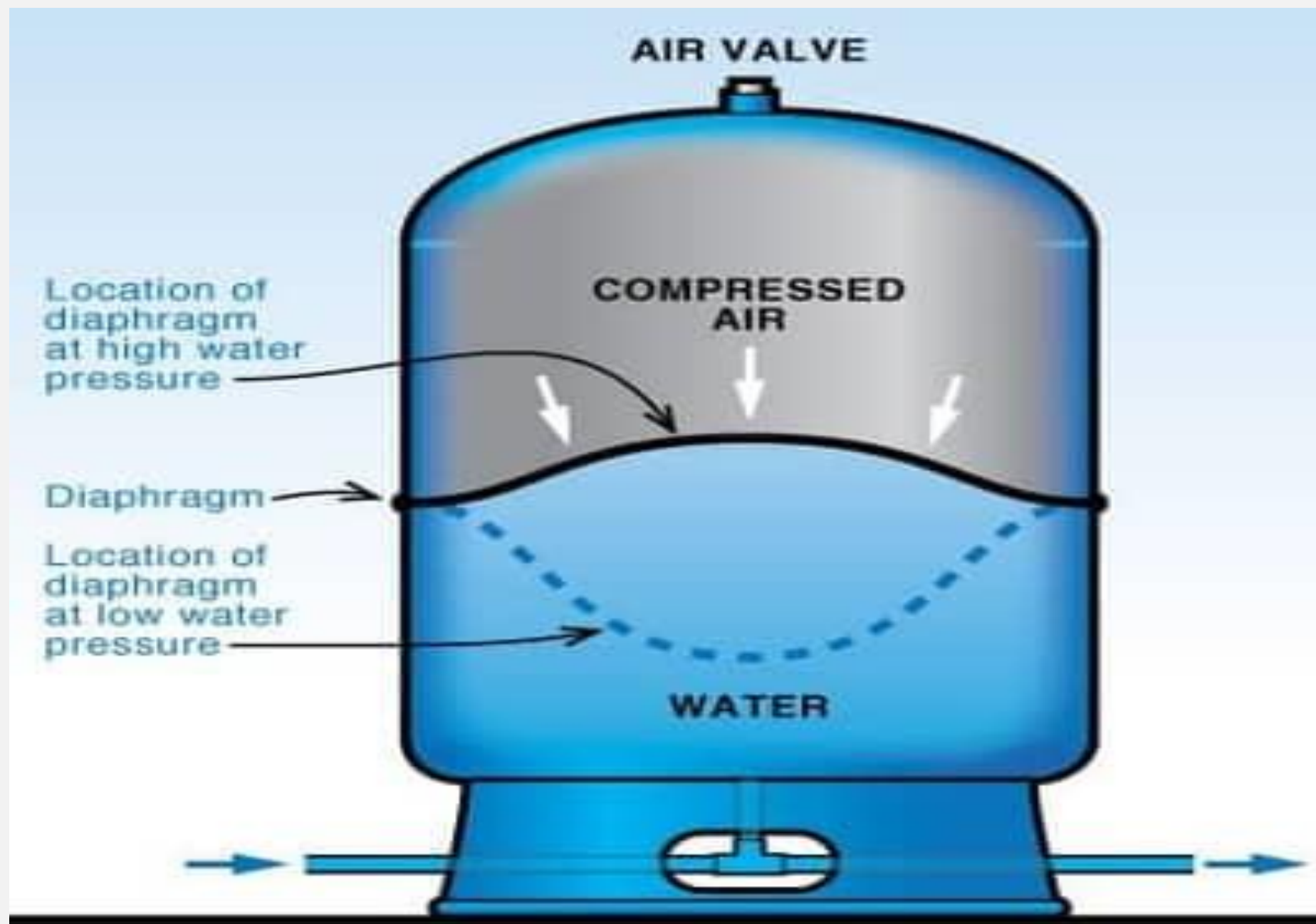
- 1. Suv bosimli baklar.**
- 2.Suv quvur tarmoqlariga oʻrnatilgan nasoslar.**
- 3.Nasoslarning ish umumdorligi .**

- Shahar s bosimi yetarli bo'lmaganda, binolarga suv bosimli baklar o'rnatiladi. Suv bosimli baklar ichki suvquvur tarmog'ida zarur bosimni ta'minlaydigan balandlikka o'rnatiladi. Baklardagi xo'jalik-ichimlik ehtiyojlariga zarur bo'ladigan suv zaxirasini sarflanadigan suv miqdoriga sarfning notekislik darajasiga va baklarga suv kelish darajasiga qarab olish kerak.

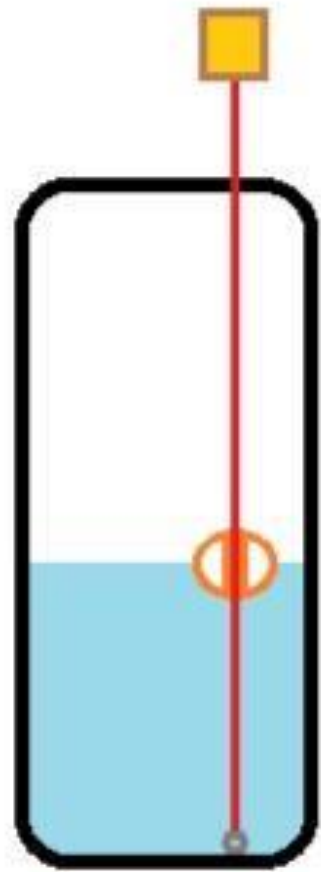
Different Types of Pressure Tanks



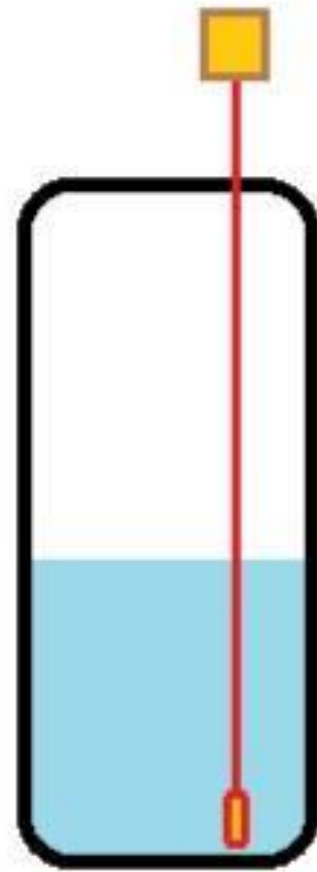
Ichimlik suvi uchun mo'ljallangan suv bosimli baklarda qopqoq bo'lishi va ular maxsus taglikka o'rnatilishi lozim. Bosimli suv baklari varaqli po'latdan dumoloq va to'g'ri to'rtburchak shaklida yasaladi. Ularning ichi va sirti moyli bo'yoq bilan bo'yab qo'yiladi. Baklarning tashqi sirti nam kondensatlanmasligi uchun izolatsiya qilinadi.



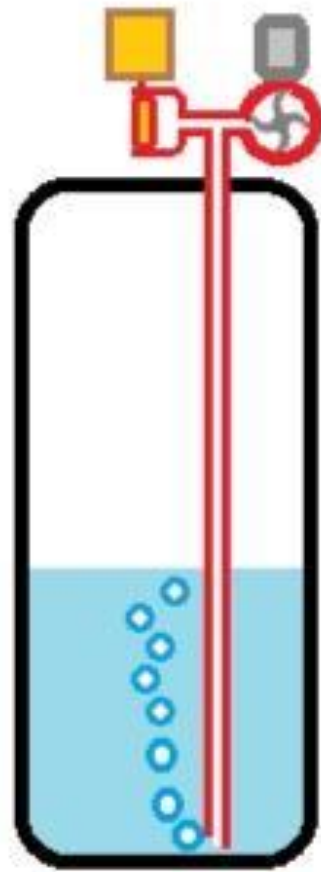
Suv zaxirasi baklari bir yoki bir necha kolkovuch klapanli bakka eng yuqori yo'l qo'yiladigan suv sarfi balandligida ulanadigan to'kish quvuri bak tubiga va to'kish quvuriga ulanadigan ventilli to'kish quvuri; taglikdan to'kish quvuriga ulanadigan, diametric 38 mm li suv olish quvuri; nasos agregatlarini ishga tushirish uchun bakdagi suv sathi o'lchagichlari (datchiklari); bakdagi suv sathi ko'rsatkichlari bilan jihozlanadi. Bosimli suv baklari varaqli po'latdan dumoloq va to'g'ri to'rtburchak shaklda yasaladi.



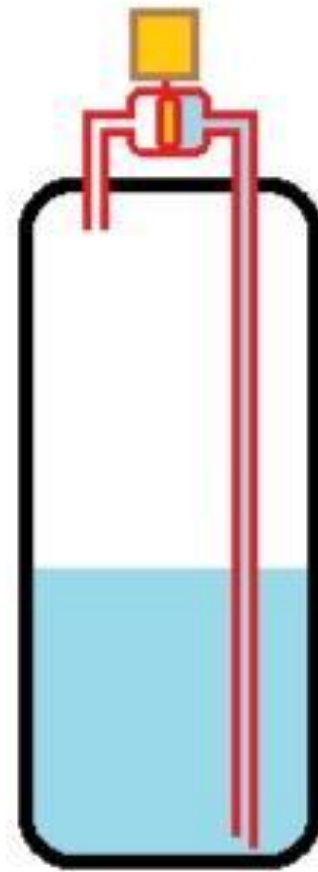
**MECHANICAL
& MAGNETIC**



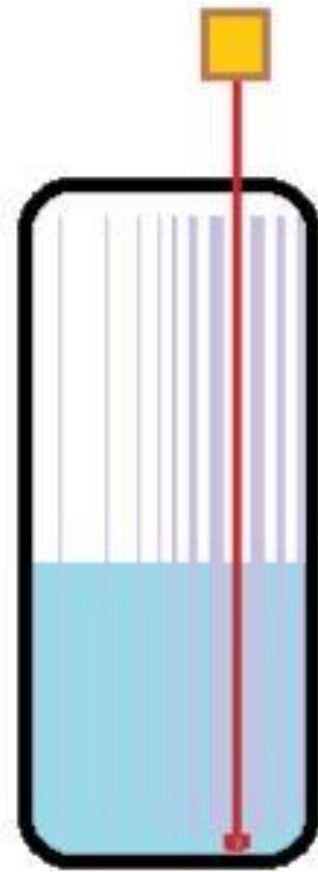
HYDROSTATIC



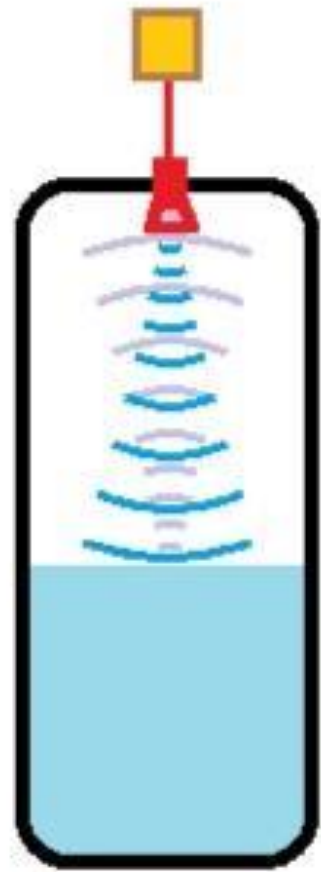
**BUBBLER
PRESSURE**



DIFFERENTIAL

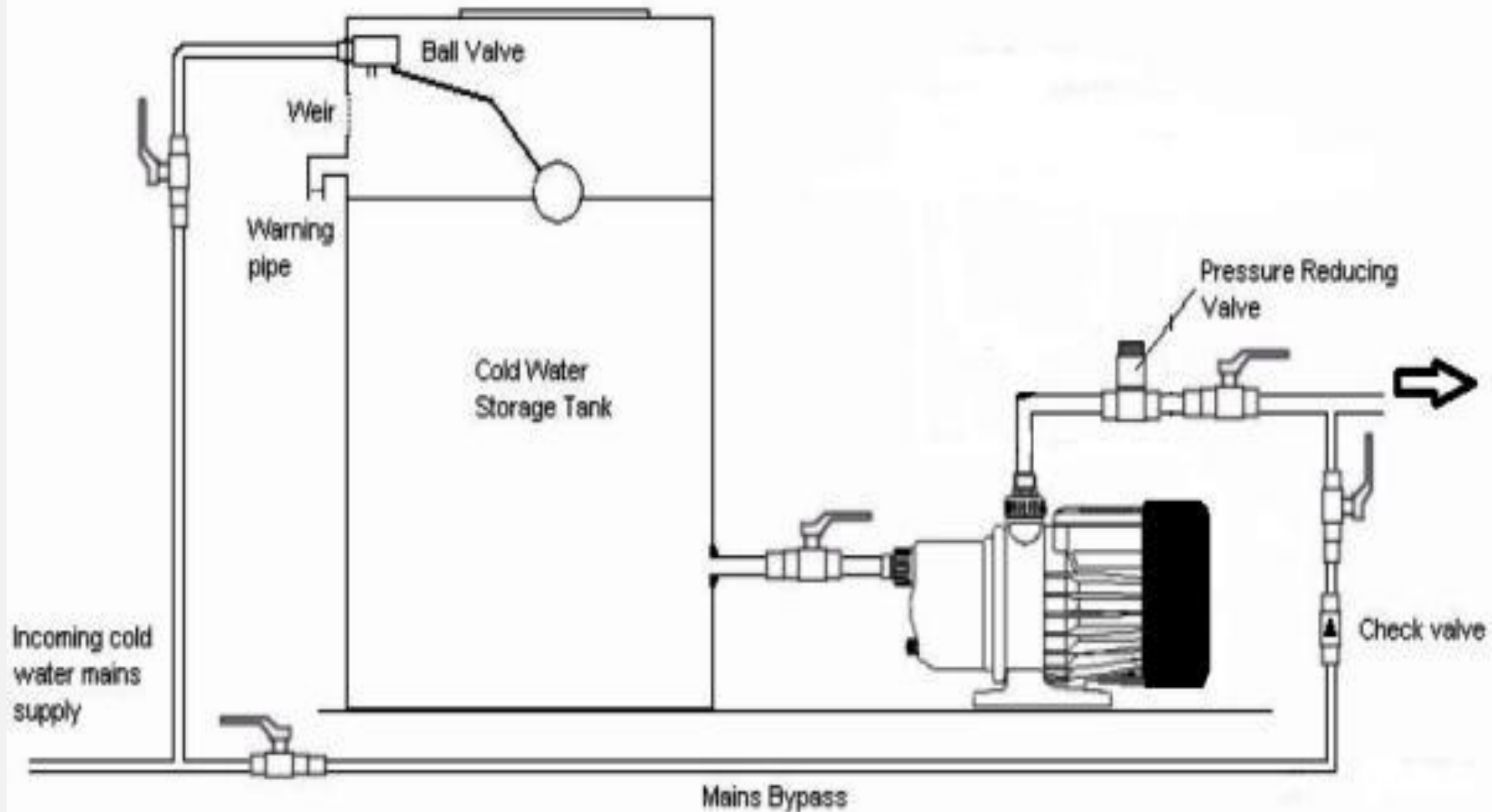


**ELECTRO-
-STATIC**

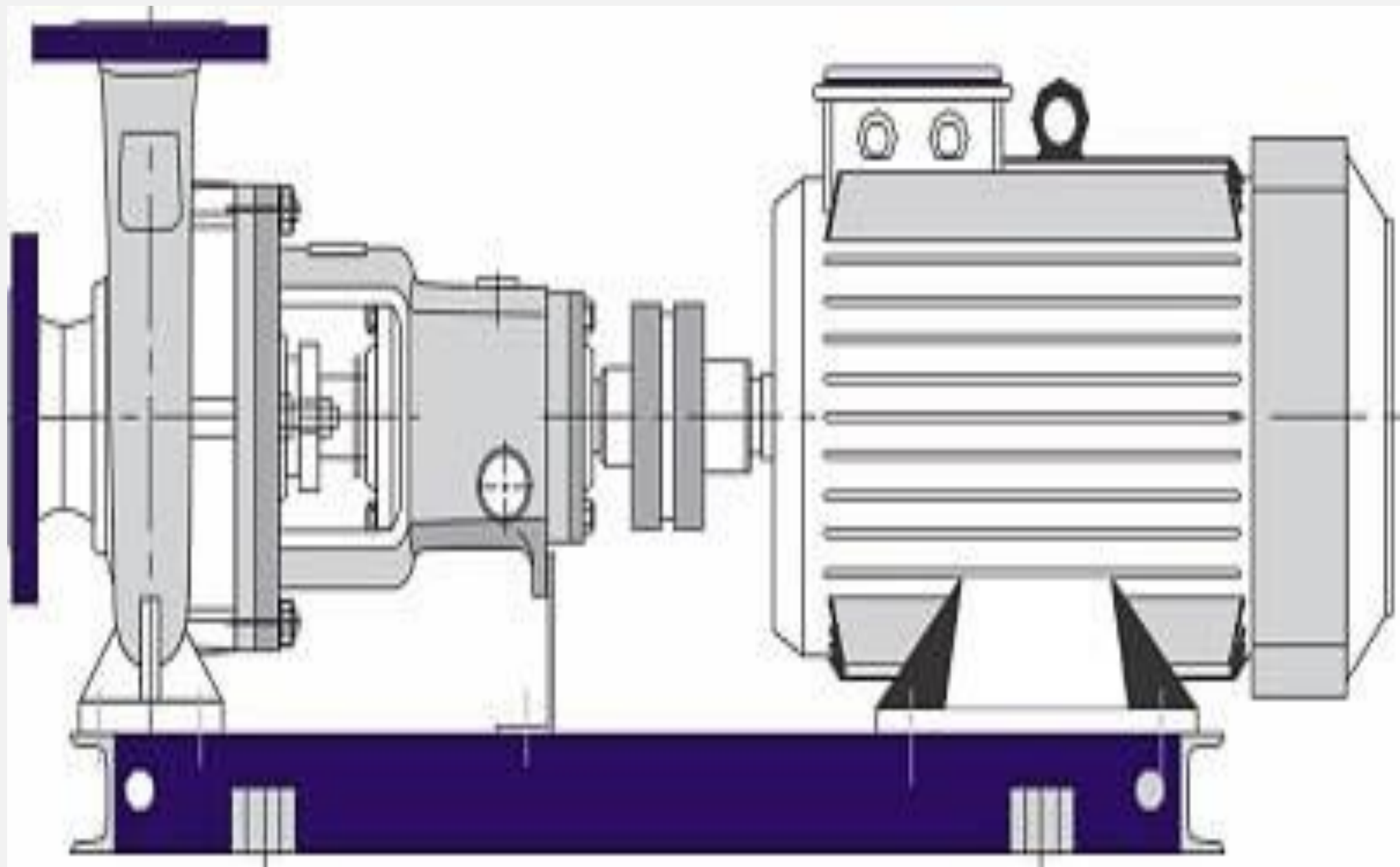


**ULTRASONIC
& RADAR**

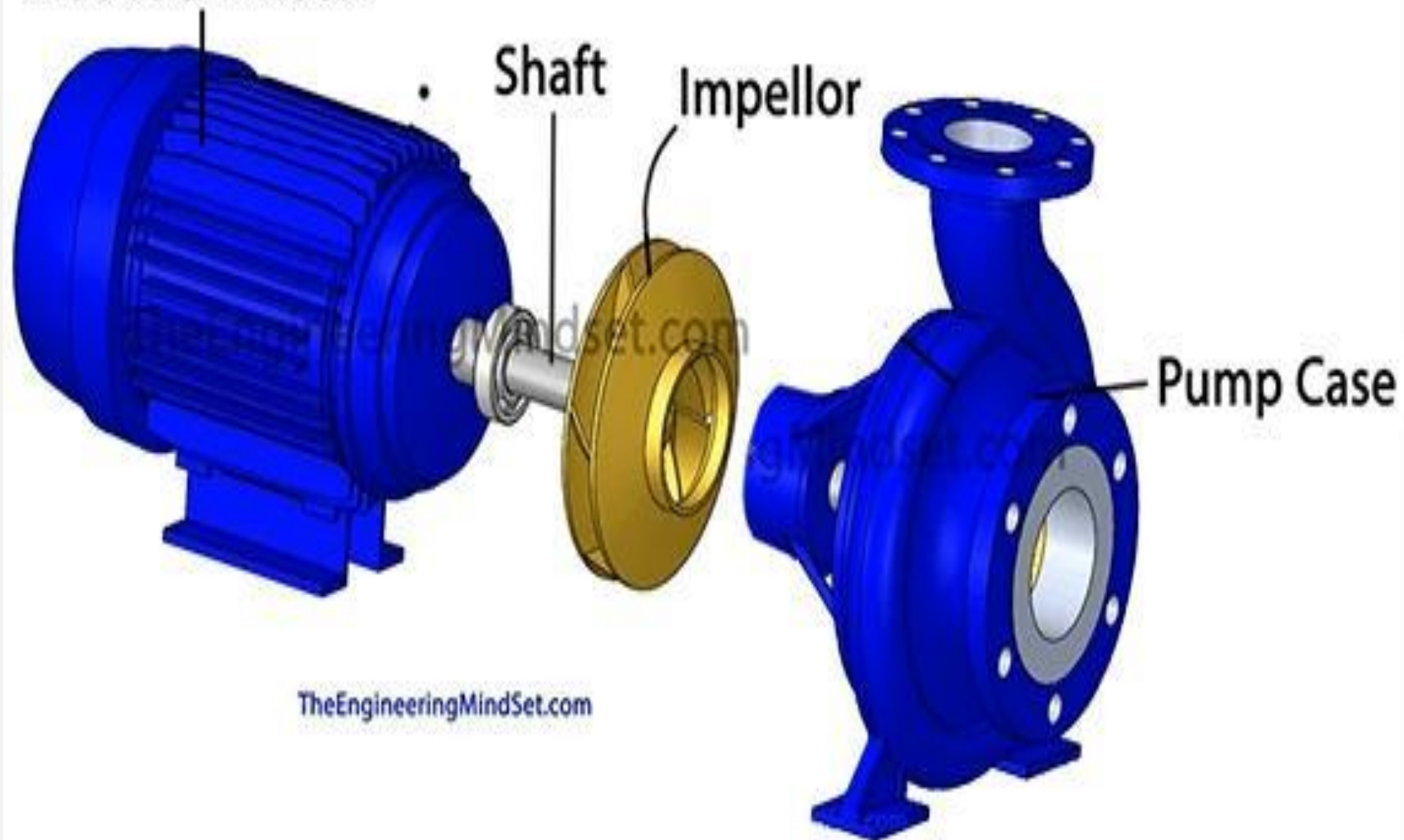
Shahar suvquvur tarmog'idagi bosim yetarli bo'lmasa, ichki suv bilan ta'minlash tarmog'ida bosimni ko'tarish uchun nasos vapnevmatik qurilmalardan foydalaniladi. Markazdan qochma nasosli qurimalar keng qo'llaniladi. Markazdan qochma nasoslar tuzilishi jihatdan bir g'ildirakli, bir pog'onali hamda ikki va undan ko'p g'ildirakli ko'p pog'onali xillarga bo'linadi.



- Bir pog'onali markazdan qochma nasos korpuslarga mahkamlangan parrakli g'ildirakdan iborat. Parrakli g'ildirakda ikkita disk ichiga olingan bir necha bukilgan parraklar bo'ladi. G'ildirak aylanganida, parraklar suvni ilintirib oladi va bunda hosil bo'ladigan markazdan qochma kuch ta'sirida suvni oldinga irg'itib, nasos korpusida suv bosimini vujudga keltiradi.



Induction Motor

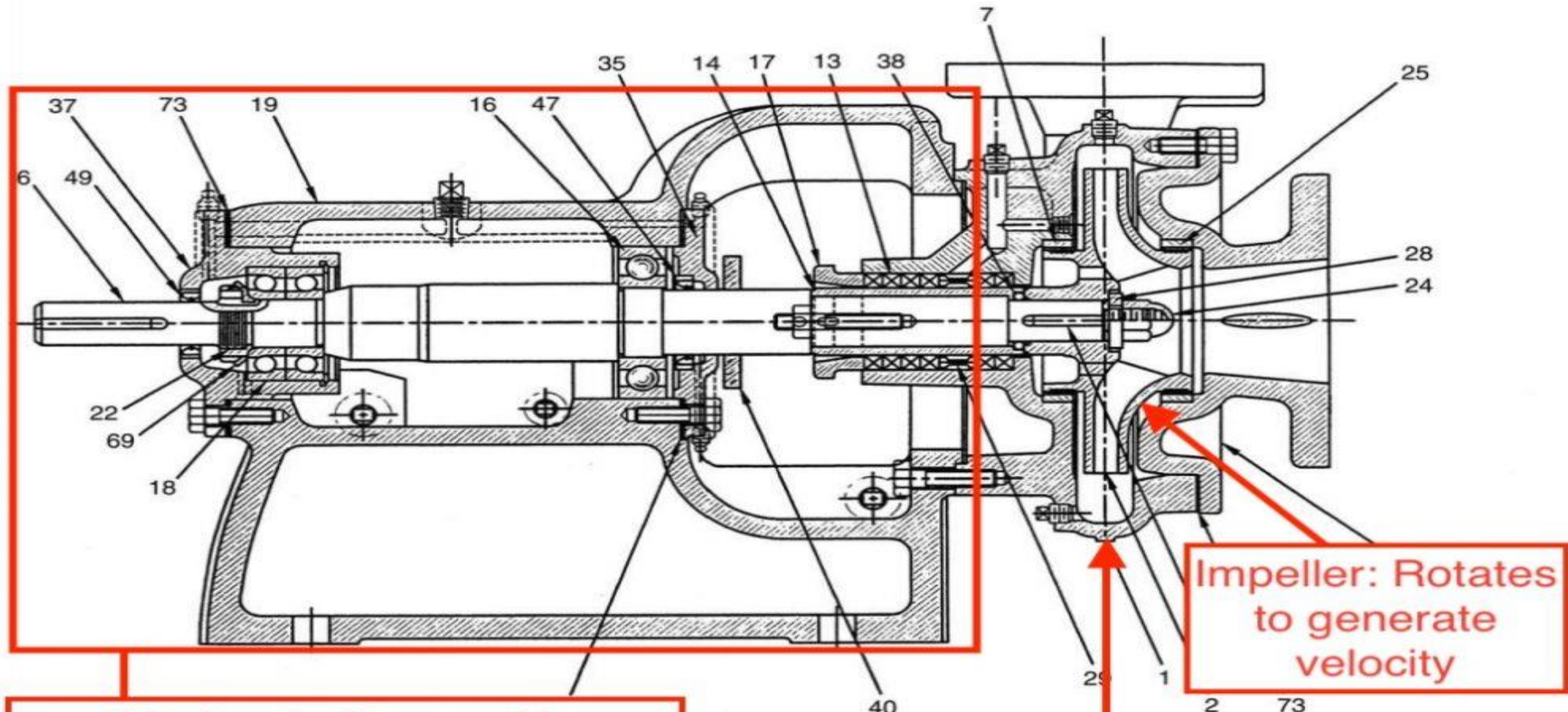


Shaft

Impellor

Pump Case

Suv bosim ostida nasosdan bosim naychasi bo'ylab tarmoqqa yo'naladi. Ayni vaqtida, ish g'ildiragi markazida havoning siyraklanishi hisobiga shuncha miqdordagi suv suruvchi quvurga kiradi. Suvquvur tarmoqlariga o'rnatilgan nasoslar har doim suvga to'la, ishga tayyor turadi, chunki ularga suv shahar suvquvur tarmog'i bosimi ostida kiradi



Mechanical assembly consisting of a shaft, bearings, sealing arrangement, and structural components.

Casing: Converts velocity into flow

Impeller: Rotates to generate velocity

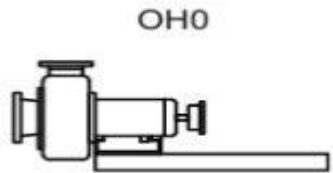
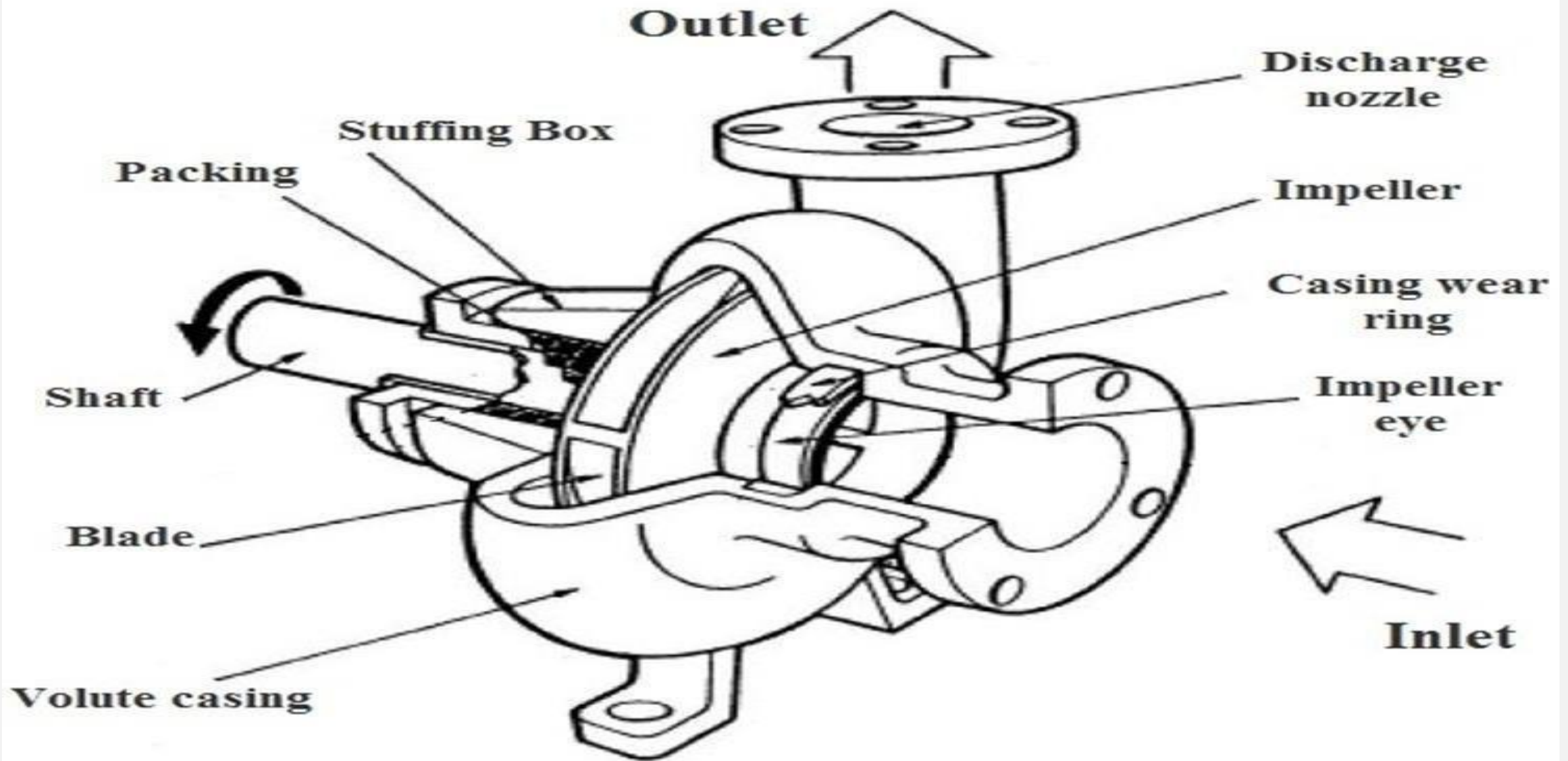
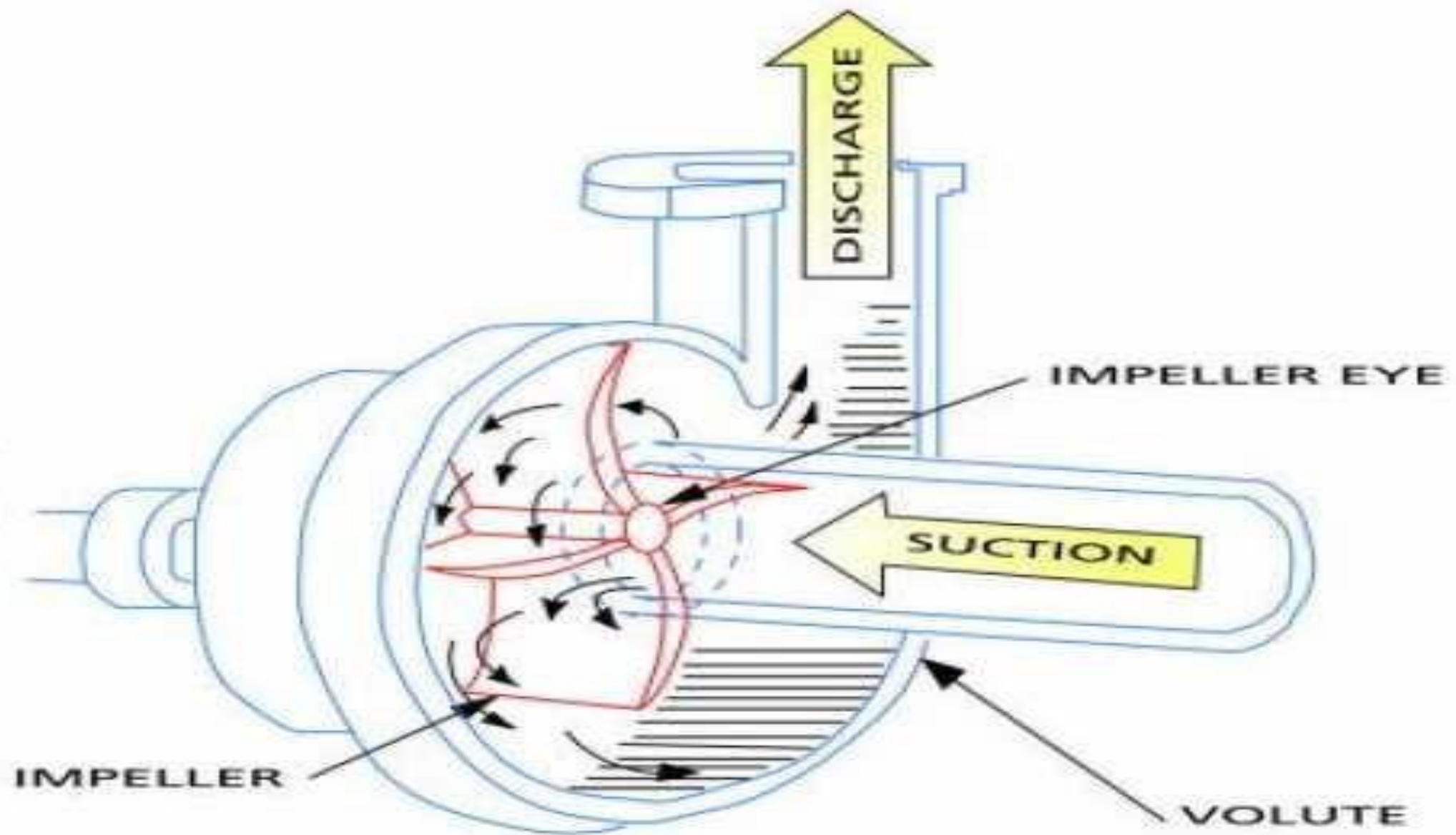


Figure 1.1.5a — Overhung impeller – flexibly coupled – single stage – frame mounted



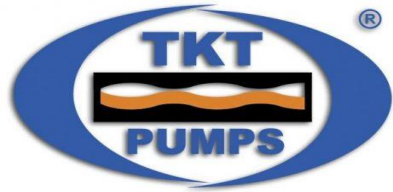
Markazdan qochma nasos haydaydigan suv miqdori ish g'ildiragining aylanishlar soniga bog'liq bo'ladi va g'ildirakning aylanishlar soni oshishiga proporsional ravishda oshadi. Nasos vujudga keltiradigan bosim quyidagi tarzda oshadi: g'ildirakning aylanishlar soni ikki barobar oshganida, bosim to'rt barobar oshadi, aylanishlar soni uch barobar oshganda bosim to'qqiz barobar oshadi va h. k..



Nasoslarning ish umumdorligi ularning vaqt birligida uzatgan suyuqligi hajmi bilan ifodalanadi va m^3 /soatda o'lchanadi. Nasosvujudga keltirgan bosim m suv ust. Da ifodalanadi. Nasos qurilmalariga nasoslardan tashqari rezerv nasoslar ham o'rnatilishi kerak. Har qaysi nasoslar guruhi uchun rezerv agregatlar soni ish nasoslari soniga bog'liq bo'ladi: ish nasoslari soni bittadan uchtagacha bo'lganida, bitta rezerv agregat ish nasoslari soni to'rttadan oltitagacha bo'lganida, ikkita rezerv agregat olinadi.

HAJIM JIHATDAN KATTA SUV NASOSLARI





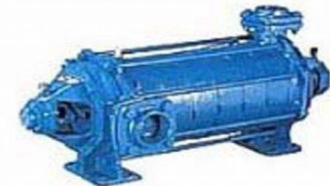
PUMPS

TRỤC NGANG – HORIZONTAL

cap



Enriching Lives



FOYDALANILGAN ADABIYOTLAR:

1. <https://www.york.ca/environment/water-and-wastewater/inflow-and-infiltration>
2. https://www.researchgate.net/figure/Water-Supply-System-of-Highlake-city_fig1_301932765
3. Google scholar
4. <https://www.sylvanlake.ca/en/public-services/water-and-sewer.aspx>

**E'TIBORINGIZ
UCHUN
RAHMAT!**