EXPANSION VALVES:-

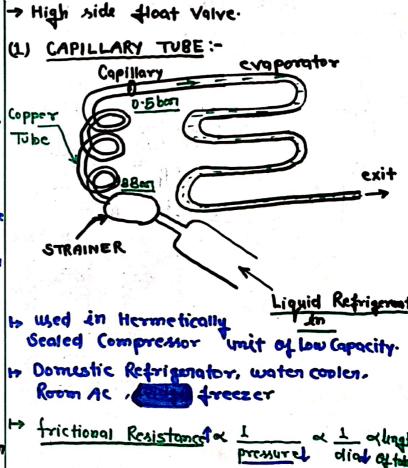
- Also called as Throttle Valve:
- pressure side.
- to fixed b/w Condenser and evaporator

Functions of expansion Valve:

- Herigonants into low pressure before sending to evaporation.
- High pressure and Low pressure.
- on high load on evaporator.

Types of Expansion Devices:-

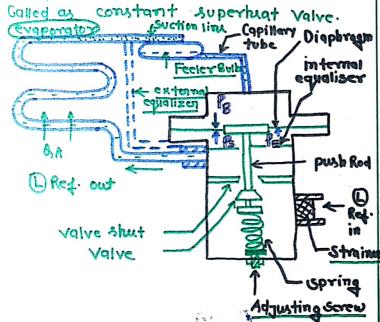
- Capillary tube
- -> Hand operated expansion valve.
- → Automatic or Constant pressure expansion
 Valve.
- → Thermostatic expansion valve
- > Low side float volve.



(Q)

THERMOSTATIC EXPANSION VALVE:-

Retrigeration unit



PB > feelen Bulb premure.
PB > Evaporator premure.

Main Components:

Needle Valve; Valve Shut; Diaphragm Spring; Adjusting Screw Feeler (04) Thurmal Bulb.

MORKING

When load increased (cooling)

Refrigerant evaporates factor rate

Degree of Superheat a pressure increases

It allow more flow of Refriguent
in evaporator.

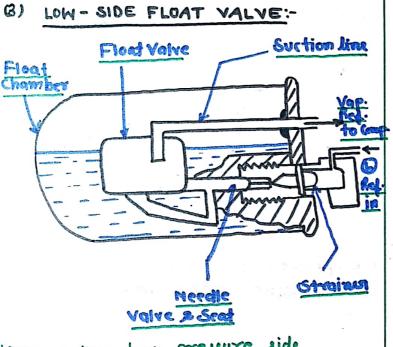
This the opposite of Automatic expansion valve.

RE increased.

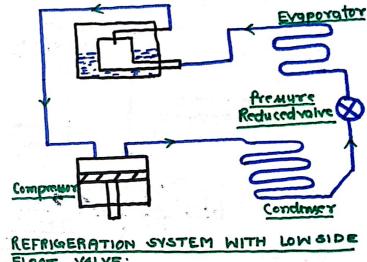
Requirements.

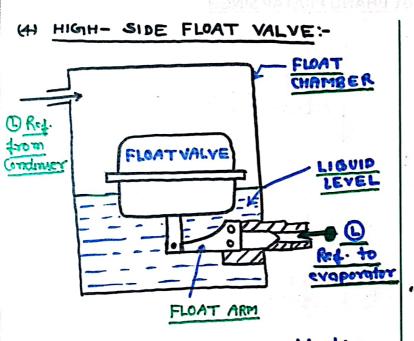
Hence

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- H Fixed b/W Low pressure side (BIM Compressor Suction line and evaporator)
- HIT maintains constant flow rate in evaporation of Retrigeran+ (Liquid) float chamber.



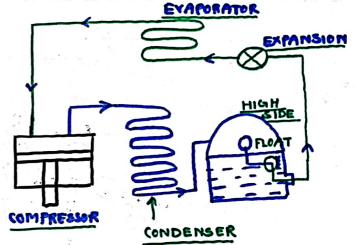


Fixed on High pressure side blu

Condenser and evaporator

based on weight in evaporator

and float room.



REFRIGERATION SYSTEM WITH HIGH-SIDE FLOAT VALYE!