

Self Assessment

1. ____ is used to generate the pressure variation in a GM system.
2. In a GM cycle, the relation between the pressure pulse and the _____ is vital.
3. Rubbing seals between the displacer and the cylinder is perfect at _____ frequencies.
4. In a ____ system, miniaturization is not possible due to the valves.
5. In GM systems, ____ is done in order to reach lower temperatures.
6. ____ is the most vital component and is often called as a heart of a cryocooler.
7. ____ decreases with the decrease in temperature.

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8. Materials like ____, ____ and ____ exhibit high heat capacities at lower temperatures.
9. Rotary valve should operate at an ____ frequency.
10. Commercially available cryocoolers have ____ types of valves to control/regulate the flow.

Answers

1. Valve mechanism
2. Expander – displacer piston.
3. Low
4. GM
5. Multistaging
6. Regenerator
7. C_p
8. Lead, Er_3Ni and Neodymium
9. Optimum
10. Rotary