**Vježba 8.**

**PROUČAVANJE OPĆA PLINSKE JEDNADŽBE STANJA IDEALNOG PLINA**

**Zadaci:**

1. Istražiti ovisnost volumena, tlaka i temperature uz stalnu količinu plina.
2. Matematički (formulom) formulirajte ovisnost volumena, tlak i temperature plina uz stalnu količinu tvari.
3. Provedite diskusiju nakon obavljenog mjerenja.

**Pribor**: U-cijev s vodom, termometar, tikvica, čaša s vodom, kuhalo

Složi aparaturu kao na slici!



* Hoće li će se pri promjeni temperature promijeniti volumen plina u tikvici?

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* Hoće li će se pri promjeni temperature promijeniti tlak plina u tikvici?

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* Možemo li pomoću ovog pribora istražiti ovisnost volumena, tlaka i temperature uz stalnu količinu plina? Opišite kako bi proveli mjerenja! \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Kako ćete odrediti početni volumen plina?

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* Koliki je tlak plina na početku?

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* Napravite pet mjerenja i rezultate mjerenja upišite u tablicu:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Redni broj mjerenja | Δ*V* /cm3 |  h/cm | *V* /cm3 |  *t* / 0C |  *T* /K |  p /Pa |
| 1. |  |  |  |  |  |  |
| 2. |  |  |  |  |  |  |
| 3. |  |  |  |  |  |  |
| 4. |  |  |  |  |  |  |
| 5. |  |  |  |  |  |  |

* Promatrajući rezultate iz tablice, što možete zaključiti o vezi volumena, tlak i temperature plina pri stalnoj količini plina?

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