

IDROSTATICA

esercizi risolti

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In questa dispensa, verrà riportato lo svolgimento di alcuni esercizi inerenti la statica dei fluidi, nei quali vengono discussi proprietà dei fluidi in quiete.

Siprendiamo alcuni concetti vitali.

- **Densità:** per un qualsiasi corpo, è definita come rapporto fra la massa ed il volume:

$$d = \frac{m}{V}$$

Nel S.I. si misura in kg/m^3 , ma altre unità sono il kg/dm^3 oppure il g/cm^3 .

- **Pressione:** E' definita per tutti i corpi e viene calcolata facendo il rapporto fra il modulo della forza F agente e la superficie S su cui agisce la forza, in formula:

$$P = \frac{F}{S}$$

La pressione si misura nel S.I. in Pascal ($1Pa = 1N/1m^2$). Altre unità di misura sono il Bar = $10^5 Pa$ e l'Atmosfera ($1atm = 1,013 Bar$).

- **Legge di Stevino:** Ci dà la pressione che un fluido esercita ad una certa profondità, dipendente solo dalla sua densità d e non dalla superficie su cui agisce. Vale:

$$P = d \cdot g \cdot h$$

essendo g l'accelerazione di gravità terrestre (che vale $9,81m/s^2$).

- **Spinta di Archimede:** E' la forza che un corpo immerso in un fluido subisce per effetto del fluido stesso. E' diretta sempre verso l'alto ed è pari al peso del liquido spostato. In formula vale:

$$F_a = d_{liquido} \cdot V_{corpo\ immerso} \cdot g$$

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LA LEGGE DI STEVINO

Quanto deve essere alto un tubo riempito di mercurio ($d = 13.590 Kg/m^3$) per esercitare sulla base una pressione di 2Atm sulla sua base?

Si tratta di un'applicazione inversa della legge di Stevino: tale esercizio ha lo scopo di familiarizzare con i calcoli.

Se

$$P = d \cdot g \cdot h$$

allora è ovvio che

$$h = \frac{P}{g \cdot d}$$

Inserendo i valori numerici, dobbiamo fare attenzione nell'esprimere tutte le misure in unità del S.I. E' pertanto necessario trasformare la pressione in Pascal.

$$2Atm = 2 \cdot 1,013 \cdot 10^5 Pa = 2,026 \cdot 10^5 Pa$$

Quindi:

$$h = \frac{2,026 \cdot 10^5}{9,81 \cdot 13.590} = 1,52 m$$

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Francesco Marzolo



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