

# IDROSTATICA

## esercizi risolti

Claudio Quaresima L.S.

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:

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

## 1

### 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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**R Sandford**



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