

# Re: Venturi question

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- *From:* [matt271829-news@xxxxxxxxxxx](mailto:matt271829-news@xxxxxxxxxxx)
  - *Date:* 13 Sep 2006 05:51:20 -0700
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RP wrote:

Sorcerer wrote:

<matt271829-news@xxxxxxxxxxx> wrote in message  
[news:1158097941.649861.101980@xx](mailto:news:1158097941.649861.101980@xx)  
| Sorcerer wrote:  
| > <matt271829-news@xxxxxxxxxxx> wrote in message  
| >  
[news:1158004973.423968.104990@xx](mailto:news:1158004973.423968.104990@xx)  
| > | Hi  
| > |  
| > | It seems to be a well-established fact that the temperature drops  
| > | inside a venturi tube (e.g. causing icing in carburetors). The only  
| > | explanation I've been able to find is that "the expansion of fluid as  
| > | it passes the throat causes a temperature decrease". I'm not sure what  
| > | "passes" means here. The pressure inside the throat is lower than the  
| > | pressure either side, right?  
| > |  
| > | No, not right. A venturi is narrower in the middle.  
| > | The gas is squeezed down, that RAISES its pressure and temperature,  
| > | it cools by losing heat to the tube, but then it cools again as it  
| > | leaves  
| > | the exit upon expansion.  
| > |  
| > | The standard explanations (e.g.  
[http://en.wikipedia.org/wiki/Venturi\\_tube](http://en.wikipedia.org/wiki/Venturi_tube)) say that pressure is lower  
| > | in the narrow part of the tube.

"Wikipedia does not have an article with this exact name. Please search for Venturi tube) in Wikipedia to check for alternative titles or spellings."

Wackypedia is a disaster, any idiot can write it, and they do.

Let's put it this way... As a piston falls in the engine, the lowest pressure is in the manifold, the highest is atmospheric in the air filter.

Venturi tubes are also used to measure water flow and the introduction of chlorine gas to kill bacteria; the lowest pressure is in the reservoir,

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the highest at the faucet. Likewise air pressure is lowest at the top of the atmosphere.

Thus in the case of a carburettor the flow is from high pressure to low, but in the water example it is from low pressure to high. If you say th