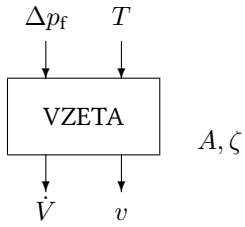
Block VZETA

The VZETA block calculates the volume flow for a given zeta value.





Name	VZETA
Function	st0019
Inputs	2
Outputs	2
Parameters	2
Strings	0
Group	S

Inputs

1 Pressure drop Δp_f / Pa
2 Air temperature T / °C

Outputs

1 Volume flow $\dot{V}$ / $m^3\,h^{-1}$
2 Flow velocity v / $m\,s^{-1}$

Parameters

1 Channel area A / m^2
2 Zeta value ζ

Strings

None

vzeta.vseit



Assuming a pressure drop of 1 Pascal and an air temperature of 20 °C as defined by two CONST blocks the VZETA block calculares the volume flow through a 1 m^2 channel with a zeta value of 0.3.

The SCREEN block displays the resulting volume flow and flow velocity.

```
8527.4  2.36873
```