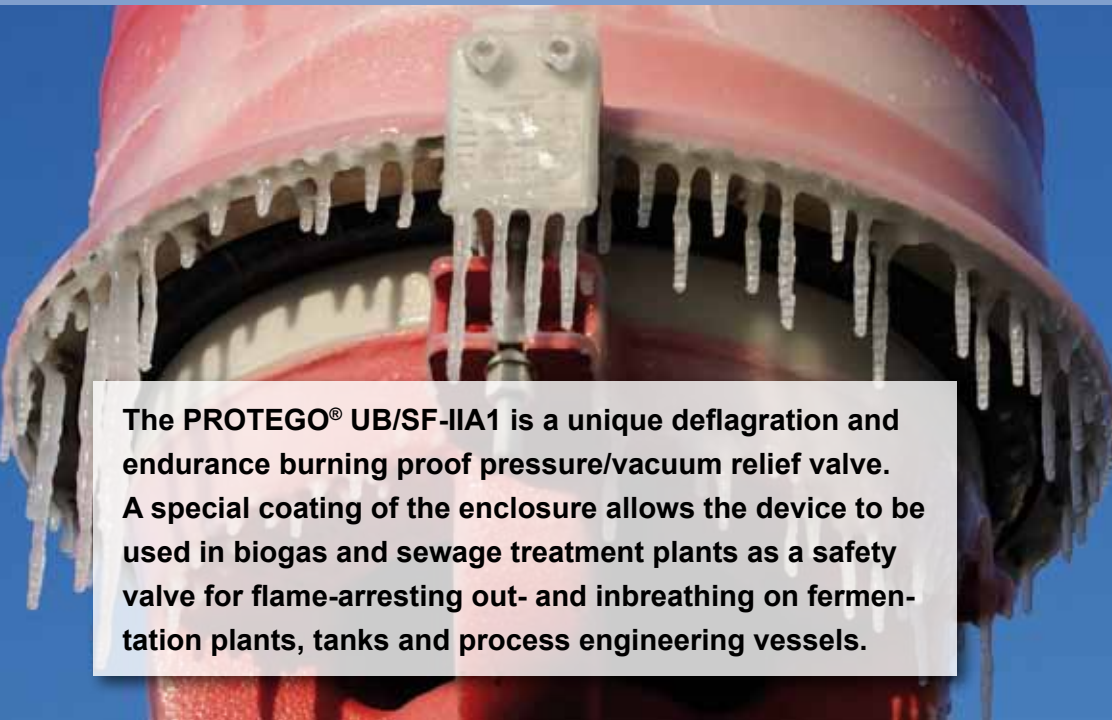


# PROTEGO® UB/SF-IIA1

## Frost-Proof Pressure and Vacuum Diaphragm Valve for Biogas Plants Protective System as per ATEX Directive 2014/34/EU



The PROTEGO® UB/SF-IIA1 is a unique deflagration and endurance burning proof pressure/vacuum relief valve. A special coating of the enclosure allows the device to be used in biogas and sewage treatment plants as a safety valve for flame-arresting out- and inbreathing on fermentation plants, tanks and process engineering vessels.

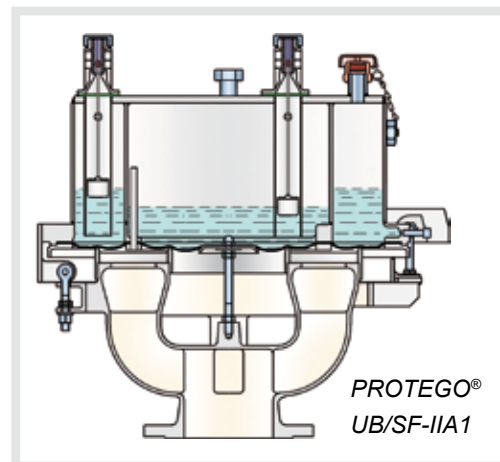


### Benefits

- Approved for vapors in explosion group IIA1 – methane and for set pressure/vacuum from 3.5 mbarg and greater
- Type-approved according to ATEX Directive 2014/34/EU and EN ISO 16852 as well as other international standards; IBExU08ATEX2031X
- High-grade corrosion-resistant coating of enclosure permits use in biogas plants
- Protection against atmospheric deflagrations and endurance burning
- Unique liquid loaded design. Once properly set up, the liquid chambers require little attention. Liquid load not affected by condensate
- Liquid column height is monitored by level indicators
- Freeze protection at sub-zero conditions
- Self draining function for condensate
- High performance seal reducing product loss below EPA's 500ppm rule preventing environmental pollution
- Set pressure close to opening pressure enables optimum pressure maintenance in the system
- Hinged design – maintenance friendly

### See our Video on:

<http://www.protego.com/products/downloads.html>



Feel free to contact us with any questions!

Our PROTEGO® team is happy to consult you!

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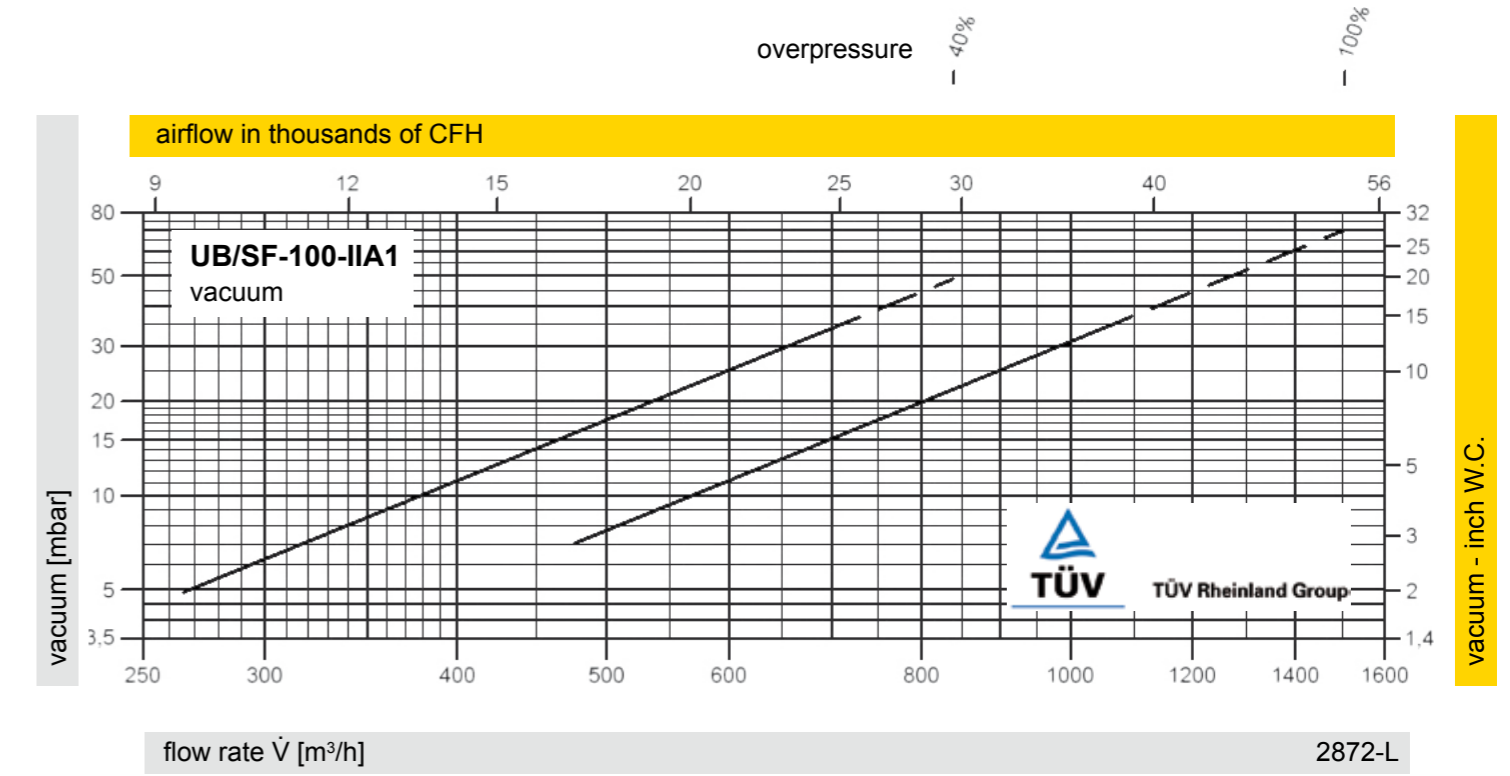
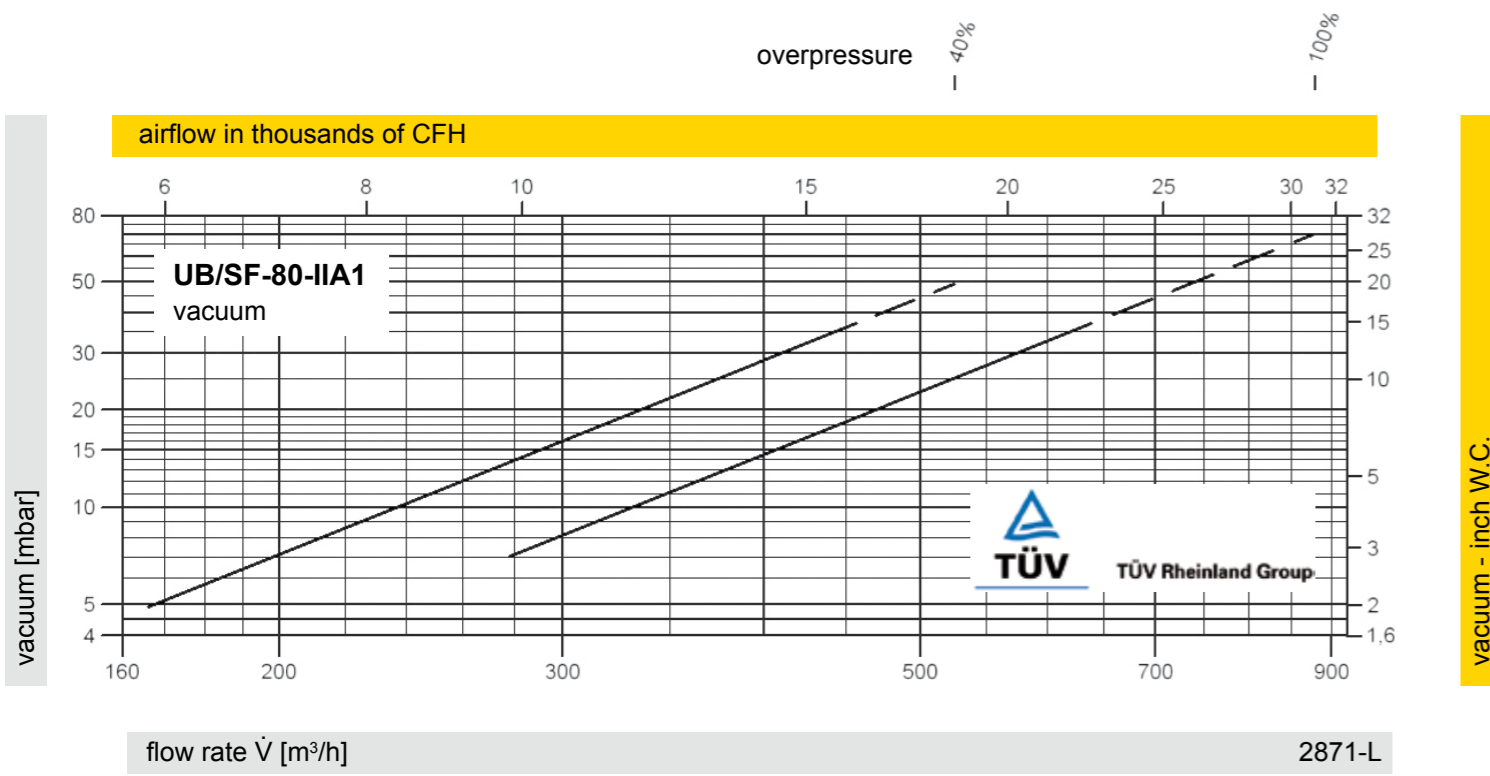
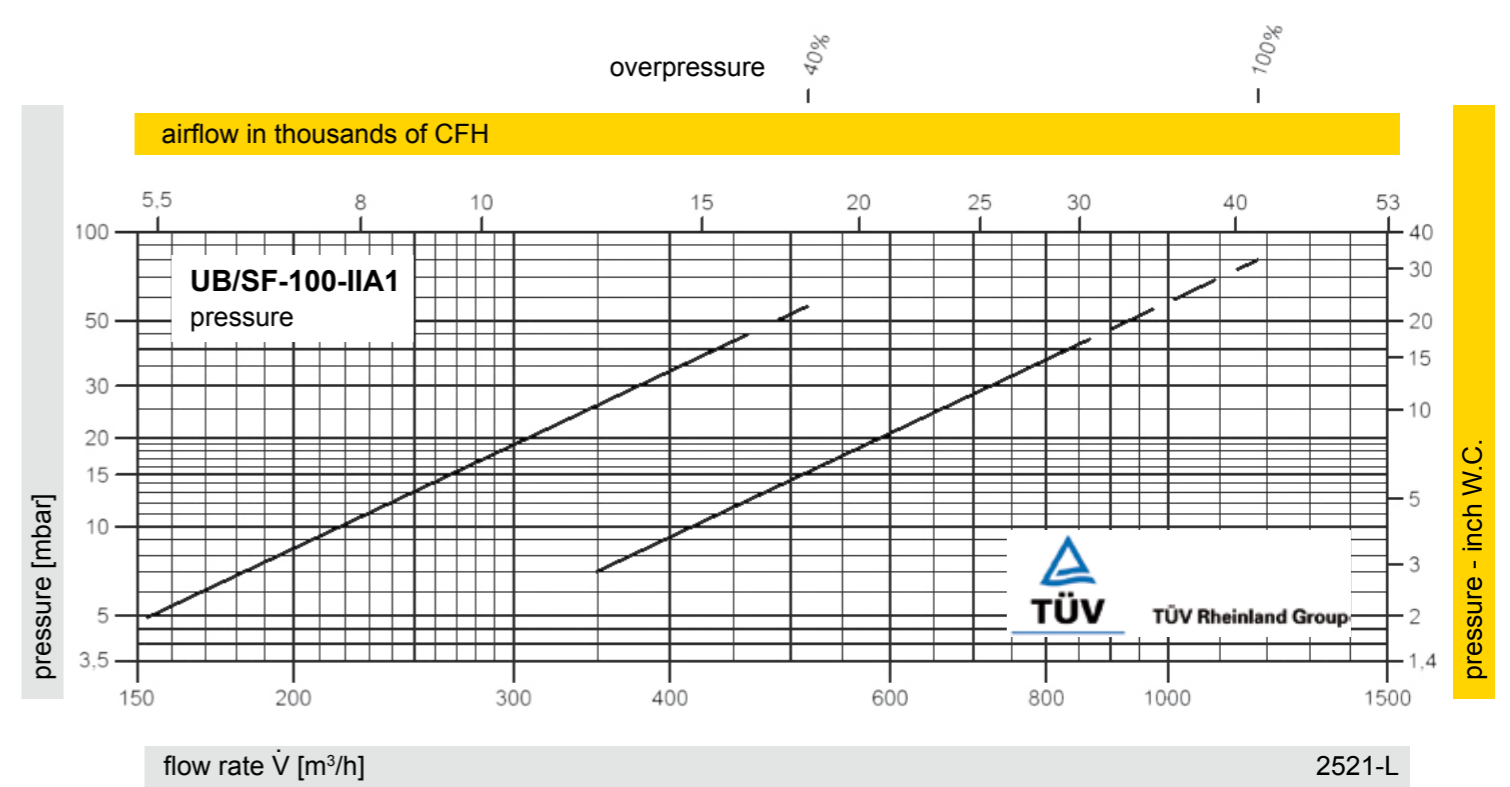
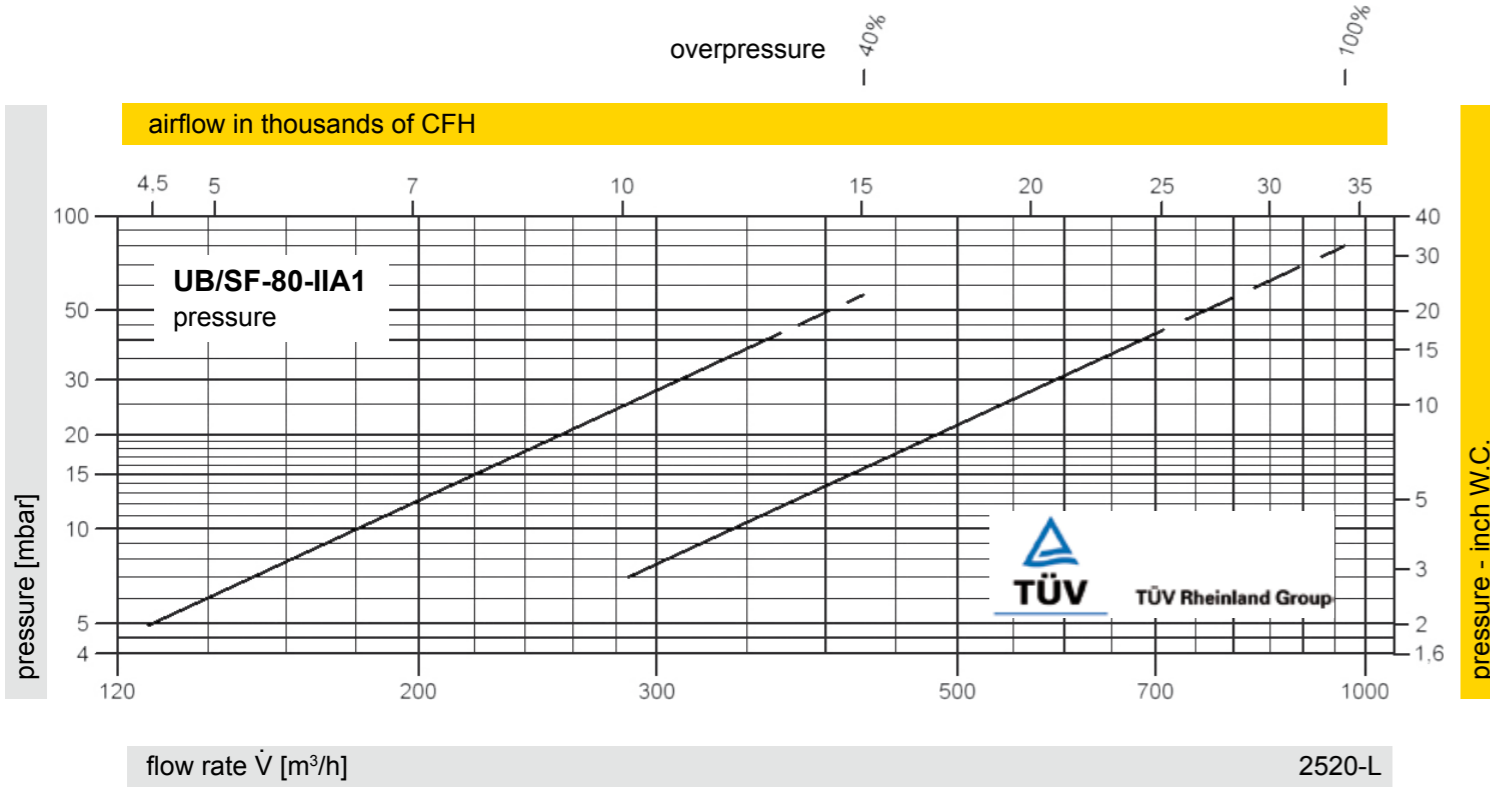


for safety and environment

**Frost-Proof Pressure and Vacuum Diaphragm Valve for Biogas Plants  
Protective System as per ATEX Directive 2014/34/EU**

**Flow Capacity Chart**

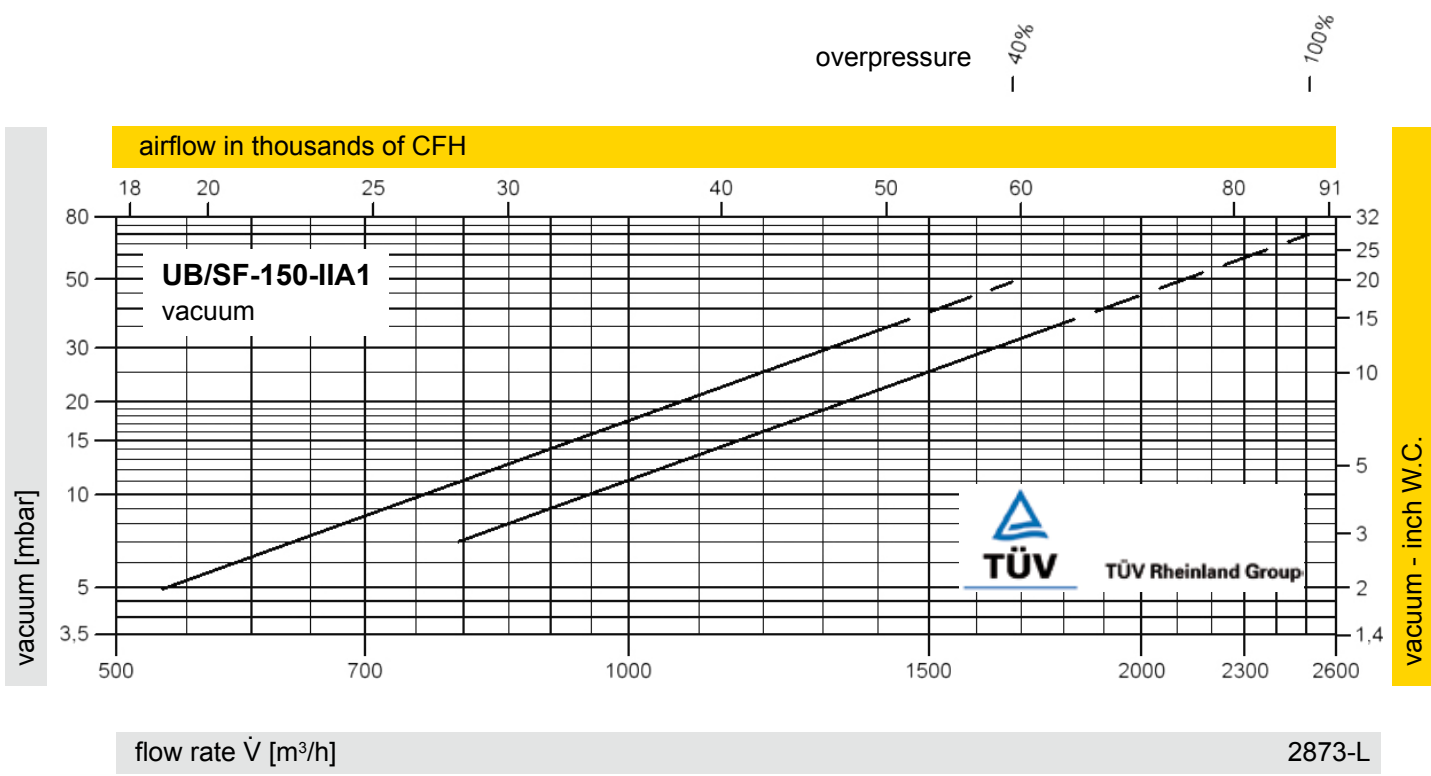
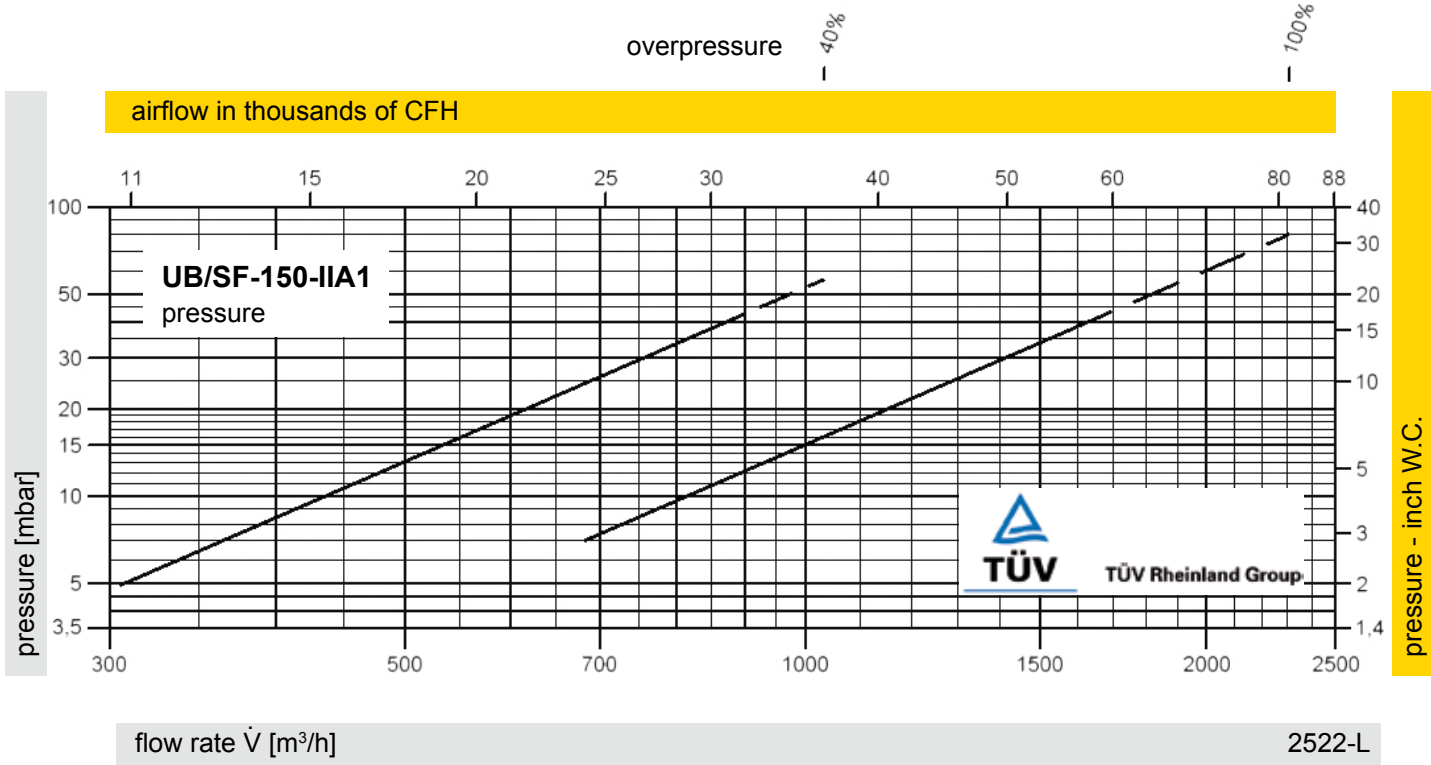
$$\text{set pressure} = \frac{\text{opening pressure resp. tank design pressure}}{1 + \frac{\text{overpressure \%}}{100\%}}$$



# Frost-Proof Pressure and Vacuum Diaphragm Valve for Biogas Plants Protective System as per ATEX Directive 2014/34/EU

## Flow Capacity Chart

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pressure - inch W.C.

vacuum - inch W.C.