



Use of hydrogen with Elektrogas components

The standard version of the Elektrogas solenoid valves can be used with a low H₂ concentration in the gas mixture up to 20% (safe) and up to 40% (at own risk).

For higher percentages of hydrogen, the use of a special version is highly recommended. Therefore, Elektrogas has just completed a special version of valves (and other products) suitable for use with pure hydrogen.

This version is subject to special procedures during production and testing and is called **HF**.

Certificates:

Currently, no specific certification for H₂-suitable components exists, so a declaration of suitability by the manufacturer is formally sufficient.

A recently issued qualified declaration by KIWA can be found as an attachment or on

https://www.tetec-mueller.com/Dokumente/Pdf/Elektrogas/P21941_Declaration_VMR-HF_e.pdf

According to this declaration, all VMR valves in HF version are suitable for use with 100% H₂.

The HF version was also mentioned in our CE declaration EN161 - GAR as a special version for H₂.

As the same approach to development, manufacturing and testing has been used for the entire product range, based on this third-party declaration Elektrogas as manufacturer can confirm the suitability of almost all products for use with H₂.

Prices of the special version HF:
on request

Please note:

ATEX features are often required for use with hydrogen. This special ATEX design is also available from Elektrogas.