

# HYtap-stopple



## Introduction

Currently, methods to realise new connections and for repairing steel gas pipelines under operational conditions are well established for natural gas. When the internal fluid however changes to hydrogen from natural gas there is very limited knowledge on how to perform these actions safely. Changing operation for existing pipelines from natural gas to hydrogen can result in possible other users and suppliers in different locations along the pipeline requiring new connections. But to be able connect new lines safely, full knowledge is required to enable hot tapping and stoppling under hydrogen gas conditions. This will help to avoid shutting down full lengths of transmission lines to drive out the hydrogen and replace this with nitrogen. Obtaining the knowledge for safe hot tapping and stoppling operations under hydrogen service is the main reason to perform this study and execute tests. At the same time this type of hot tap and stoppling operations can be used in case pipeline sections need to be replaced or temporarily be out of service in case of integrity issues.

## HYtap-stopple involves:

- Experimental hydrogen hot tap and stopple
- Hydrogen pipeline maintenance
- Safe operation and working environment
- High-pressure experiment  
67bar 100% hydrogen, diameter 20"/DN500
- Welding under hydrogen conditions
- Cooperation with TD Williamson
- Execution Q1-2023 registration to participate ends en 2022



To participate in this experiment and get information out of first hand, contact Gasunie Infrastructuur where also a more detailed project explanation is available.

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