

Pressure regulating installations (PRIs) for new and repurposing of existing PRIs for transmission of Natural Gas (NG)/Hydrogen blends for pressures not exceeding 7 bar

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*Founded 1863
Royal Charter 1929*



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SECTION 1: INTRODUCTION

S1.4 This Supplement provides additional requirements for new pressure regulating installations (PRIs) with operating pressure not exceeding 7 bar to be used for the transmission of Natural Gas/Hydrogen blended mixtures (subsequently referred to as NG/H blends), and for the repurposing of Natural Gas (NG) not exceeding 7 bar PRIs for NG/H blend service and is only to be used in conjunction with IGEM/TD/13 Edition 2.

This Supplement applies to the safe design, construction, inspection, testing operation and maintenance of PRIs in accordance with current knowledge and operational experience.

The clause numbers in this Supplement (preceded by 'S'), refer to the clause numbers in the main document and specify the requirements and qualifications which are in addition to those in the main document. Where there is no numbered clause in this Supplement corresponding to a clause in the main document, the requirements of the main document apply in full.

This version of Supplement has been developed using the latest publicly available information and may include some conservative requirements which further research may deem not necessary. The Supplement will be updated regularly following the publication of new research into the application of NG/H blends.

S1.11 This Supplement was published in January 2023.

SECTION 2: SCOPE

S2.1 This Supplement gives additional recommendations for PRIs and installations with upstream maximum operating pressure (MOP) not exceeding 7 bar for use with

- NG/H blends with less than or equal to 20 mol % Hydrogen.

S2.2 This Supplement also gives additional recommendations relating to the repurposing of NG PRIs for NG/H blend service. These recommendations are in addition to those in the main body of the document, which continue to be applied except where explicitly superseded by the recommendations of this Supplement.

Repurposing in accordance with the recommendations of this supplement is only be considered for PRIs and installations which have been operated in accordance with IGEN/TD/13 and a full maintenance history is available.