

# API 618 Reciprocating Compressors for Feed Gas, Tail Gas and Product Hydrogen for PSA Hydrogen production Plants

Knowledge of the different construction standards for PSA plants for Hydrogen.

Excellent flexibility in adapting to different process conditions.

SIAD Macchine Impianti compressors for  $H_2$  PSA plants are:

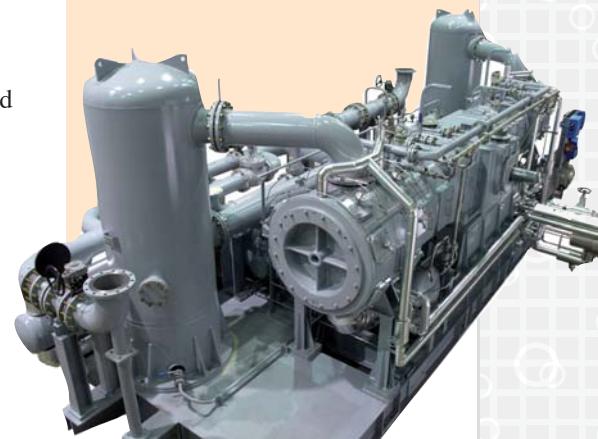
- *skid-mounted* to facilitate installation and start-up operations;
- *easy to maintain*. The design facilitates maintenance operations by the final user.

## Technical characteristics

- Piston rods specifically treated to prevent *brittle steel due to the hydrogen*.
- *Purging* of the distance piece and crankcase with inert gas.
- *Use of specific materials for hydrogen* in flanges, gaskets and seals.
- *Valves* specifically designed for use with hydrogen.

## Industrie

- Petrochemical
- Refinery
- Technical Gas



### API618 Reciprocating Compressors for Feed Gas

Outlet pressure	up to 600 bar oil-free or lubricated
Capacity	up to 90 000 m <sup>3</sup> /h

### API618 Reciprocating Compressors for Boil-off Gas

Outlet pressure	up to 600 bar oil-free or lubricated
Capacity	up to 90 000 m <sup>3</sup> /h

### API618 Reciprocating Compressors for hydrogen produced with high purity

Outlet pressure	up to 600 bar oil-free or lubricated
Capacity	up to 90 000 m <sup>3</sup> /h

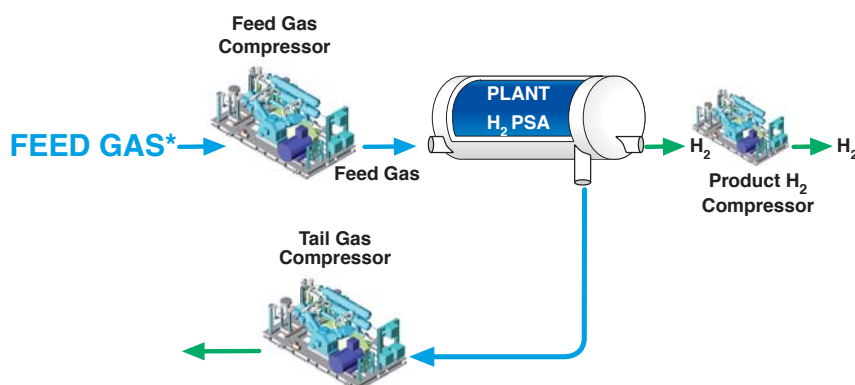
## Technical Standard

- Compressors engineered to high standards in compliance with International Safety Standard and Manufacturing Codes.
- Compressors designed in accordance with the requirements and specifications of the different end users.
- The experience of SIAD Macchine Impianti engineers, in terms of the service we offer our customers, has resulted in a certified standard which can be adapted to the many requirements of small, medium-size and large industries.



## International manufacturing and safety standards

- ATEX Directive 94/9/EC
- Standard API618 Fifth Edition



\* Feed Gas can be either **Syngas** coming from Reformer or Hydrotreater, or **Permeate Gas** coming from membrane plant

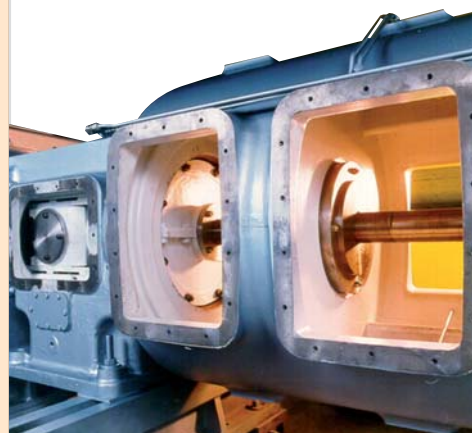
Find out more about our range of services at [www.siadmi.com](http://www.siadmi.com)

## Global Service Division: a complete range of services

To reduce operating costs and to maintain our compressors in conditions of maximum efficiency, SIAD Machine Impianti offers clients a complete range of services, as well as a network of Certified Service Centers run by qualified technicians that extends across all five continents.

### Activities

- Original parts
- Services in the field
- Technical support
- Refurbishment and upgrade
- Engineering services:
  - analysis
  - revamping
  - monitoring-diagnostics
- Training



For further information:  
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