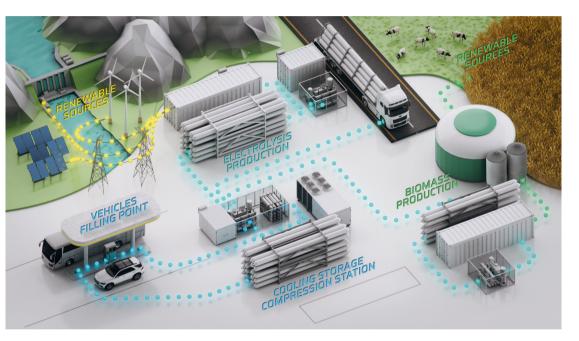


PETROLMECCANICA

All the services and solutions for the hydrogen distribution and production cycle in a single partner.



The skills and expertise of Petrolmeccanica and other companies in the Cedem consortium allow us to support our customers throughout the hydrogen production chain, with, for example:

- The installation of hydrogen production systems from renewable or conventional sources.
- Compression and storage systems that store hydrogen at pressures of up to 1000 bar, and can be sized according to customer requirements, such as the quantities of hydrogen to compress, and the required pressure and flow rates.
- Hydrogen filling stations and dispensers for light and heavy-duty vehicles.
- Cooling systems for pre-cooling the hydrogen before dispensing it at up to -40 °C and a pressure of 350 and 700 bar.

Would you like more information?

- **Call us at:** +39 051 794 611
- Write to us at: info@petrolmeccanica.it | cedem@cedem.it

Products and services for the energy transition

HYDROGEN Solutions

PM SERVICE srl

PETROLMECCANICA.IT

Legal headquarters Via Finlandia, 70 - 41122 Modena, Italy Operational headquarters Via Tolara di Sopra, 51 - 40064 Ozzano dell'Emilia (BO), Italy

WWW.CEDEM.IT











Successfully active for over 50 years,
Petrolmeccanica has developed, produced
and implemented services and solutions
dedicated to fuel stations, from their design
and construction to maintenance and supply
of spare parts, becoming a benchmark in the
fuel stations sector. Transparency, trust and
continuity is the base in our relationships with
customers and suppliers.

Today Petrolmeccanica is one of the leading producers that can also offer services and solutions for new hydrogen technologies, like dispensers, safety valves and a customised testing service.



Certificazione del Sistema di Gestione Qualità

Our hydrogen dispensers.

H35

Single Nozzle

General Specifications

Max. Flow rate: 7.2 kg/min

Maximum operating pressure: 437.5 bar

Temperature Class H₂: up to T40 (-40 °C<T<-33 °C) **Accuracy:** OIML R-139 CLASS 2

MPE dispenser: 1.5%



H70

Single Nozzle

General Specifications

Max. Flow rate: 3.6 kg/min

Maximum operating pressure: 875 bar

Temperature Class H₂: up to T40 (-40 °C<T<-33 °C)

Accuracy: OIMLR-139 CLASS 2

MPE dispenser: 1.5%



H35 - H70

Double Nozzle

General Specifications

Max. Flow rate H35: 7.2kg/min Max. Flow rate H70: 3.6 kg/min

Maximum operating pressure H35: 437.5 bar **Maximum operating pressure H70:** 875 bar

Temperature Class H₂ H35 and H70: fino a T40 (-40 °C<T<-33 °C)

Accuracy H35 and H70: OIML R-139 CLASSE 2

MPE dispenser H35 and H70: 1.5%



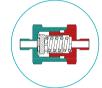
Our services, at your service.

New product developments

EFV Excess Flow Valves

Excess Flow Valves (EFV) are fitted in lines that supply hydrogen (gas or liquid) to dispensing dispensers in order to avoid product leaks in the event of a broken valve or stop the maximum set flow rate being exceeded in the case of a fault or malfunction.

Our EFV - Excess Flow Valves

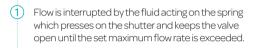


VEF1 Resistance to operating pressure 875 bar (for H70 dispensers)

EFV 2 Resistance to operating pressure 437.5 bar

(for H35 dispensers)

How Excess Flow Valves work





3 The maximum set flow rate is equivalent to 150% of the maximum dispenser flow rate, so from 3.6 kg/min up to 7.2 kg/min.



Services and solutions THIRD PARTY TESTING

Petrolmeccanica can conduct tests in similar conditions to those in hydrogen filling stations

More specifically, tests can be conducted with pure hydrogen at a high pressure (up to 1000 bar) and a low temperature (up to -40 °C).

We can therefore accompany customers throughout the test and development stages of projects and prototypes regarding individua components or complex systems for hydrogatilling stations.