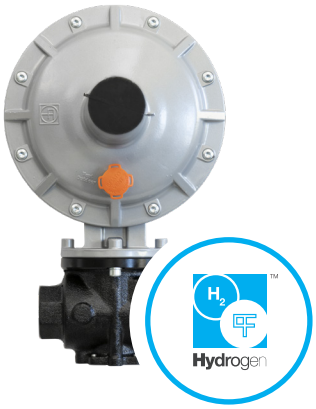
Pietro Fiorentini

Dival 500 H



The **Dival 500 H** by Pietro Fiorentini is a **lever-operated** gas pressure regulator controlled by a diaphragm and contrasting regulated spring action. This device is suitable for **100% hydrogen applications**. It is used for medium and low pressure gas distribution networks, as well as commercial and industrial applications. According to the European Standard EN 334, it is classified as **Fail Open**.

- District stations
- Medium/small industry
- Commercial users
- Electrolyzers downstream applications
- Blending units

Features	Values
Design pressure* (PS[1] / DP[2])	up to 1 MPa for BP, up to 2 MPa for MP and TR up to 10 bar for BP, up to 20 bar for MP and TR
Ambient temperature* (TS[1])	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure (MAOP / p_{umax}[1])	• from (Pd + 0.01) MPa to 1 MPa from BP from (Pd + 0.01) MPa to 2 MPa for MP and TR • from (Pd + 0.1) bar to 10 bar from BP from (Pd + 0.1) bar to 20 bar for MP and TR
Range of downstream pressure (Wd[1])	• from 1.3 to 10 kPa for BP, from 10 to 30 kPa for MP, from 30 to 250 kPa for TR • from 13 to 100 mbar for BP, from 100 to 300 mbar for MP, from 300 to 2500 mbar for TR
Available accessories	LA slam shut, relief valve, monitor version
Minimum operating differential pressure (Δp_{min}[1])	0.01 MPa | 0.1 barg
Accuracy class (AC[1])	up to 10
Lock-up pressure class (SG[1])	up to 20 (depending on version and set point)
Nominal size (DN[1,2])	DN 25x25 | 1"x1"; DN 25x40 | 1"x1" 1/2
Connections	Threaded Rp EN 10226-1, NPT ASME B1.20.1

([1]) according to EN334 standard
([2]) according to ISO 23555-1 standard
(*) NOTE: Different functional features and/or extended temperature ranges may be available on request. Stated inlet gas temperature range is the maximum for which the equipment's full performance, including accuracy is guaranteed. Product may have a different pressure or temperature ranges according to the version and/or installed accessories.

Table 1 Features

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Materials and **Approvals**

Part	Material
Body	Aluminium EN AC 43300 UNI EN 1706
Cover	Aluminium
Seat	Brass
Diaphragm	Fabric finish rubber
O-ring	Nitrile Rubber

NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

Table 2 Materials

The **Dival 500 H** regulator is designed according to the European standard EN 334.
The regulator reacts in opening (Fail Open) according to EN 334.
The product is certified according to European Directive 2014/68/EU (PED).
Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.

EN 334

PED-CE

Dival 500 H competitive advantages

- Balanced type
- Operates with low differential pressure
- High accuracy
- Fail Open plug and seat regulator
- Token IRV
- Internal sensing line
- Top Entry
- Easy maintenance
- Built-in accessories
- Suitable for 100% Hydrogen

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