Pietro Fiorentini

Dival 507-512



The **Dival 507-512** by Pietro Fiorentini are a **lever-operated** gas pressure regulators controlled by a diaphragm and contrasting regulated spring action. Mainly used for medium and low pressure natural gas distribution networks, as well as commercial and industrial applications. It should to be used with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as **Fail Open**. The Dival 507-512 are **Hydrogen Ready** for NG-H2 blending.

District stations

Medium/small industry

Commercial users

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 1.5 to 11 kPa for BP, from 8 to 30 kPa for MP, from 30 to 300 kPa for TR • from 15 to 110 mbar for BP, from 80 to 300 mbar for MP, from 300 to 3000 mbar for TR
Available accessories	LA slam shut, relief valve, monitor version, silencer (for model 512)
Minimum operating differential pressure (Δp_{min} [1])	0.01 MPa | 0.1 barg
Accuracy class (AC[1])	up to 10 | up to 1% absolute (depending on working conditions)
Lock-up pressure class (SG[1])	up to 20 (depending on version and set point)
Nominal size (DN[1,2])	DN 1"; DN 1" 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.
(**) NOTE: Stated temperature range is the operating range for which the equipment's mechanical resistance and leakage rate are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.
(***) NOTE: Stated temperature range is the range for which the equipment's full performance, including accuracy and lock-up are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.

Table 1 Features

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Materials and **Approvals**

Part	Material
Body	Cast iron GS 400–18 UNI ISO 1083 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 507-512** 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 507-512 competitive advantages

- Balanced type
- Operates with low differential pressure
- High accuracy
- Fail Open
- Token IRV
- Internal sensing line
- Top Entry
- Easy maintenance
- Built-in accessories
- Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

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