

Dival 507-512 H

The **Dival 507-512 H** by Pietro Fiorentini are a **lever-operated** gas pressure regulators controlled by a diaphragm and contrasting regulated spring action. These devices are suitable for **100% hydrogen applications**. They are used for medium and low pressure gas distribution networks, as well as commercial and industrial applications. According to the European Standard EN 334, they are 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> 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
Lock-up pressure class (SG ¹)	up to 20 (depending on version and set point)
Nominal size (DN ^{1,2})	DN 25 1"; DN 40 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.

Table 1 Features

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 507-512 H** regulators are designed according to the European standard EN 334. The regulators react in opening (Fail Open) according to EN 334. These products are 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 H competitive advantages



Balanced type



Internal sensing line



Operates with low differential pressure



Top Entry



High accuracy



Easy maintenance



Fail Open



Built-in accessories



Token IRV



Suitable for 100% Hydrogen