

Dival 500

The **Dival 500** by Pietro Fiorentini is a **lever-operated** gas pressure regulator 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 be used with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as **Fail Open**. The Dival 500 is **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 145 psig for BP, up to 290 psig 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 + 1.45) psig to 145 psig from BP from (Pd + 1.45) psig to 290 psig for MP and TR
Range of downstream pressure (Wd ¹)	<ul style="list-style-type: none"> from 1.3 to 10 kPa for BP, from 10 to 30 kPa for MP, from 30 to 250 kPa for TR from 5 to 40 "w.c. for BP, from 1.45 to 4.3 psig for MP, from 4.3 to 36 psig for TR
Available accessories	LA slam shut, relief valve, monitor version
Minimum operating differential pressure (Δp _{min} ¹)	0.01 MPa 1.45 psig
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 1"x1"; DN 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

Materials and Approvals

Part	Material
Body	Cast Iron GS 400-18 UNI EN 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 500** regulator is designed according to EN 334 and certified according to ANSI B109.4 and CSA 6.18 standards.

The product is certified according to European Directive 2014/68/EU (PED).

The regulator reacts in opening (Fail Open) according to EN 334.

Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.



EN 334



PED-CE



ANSI B109.4



CSA 6.18

Dival 500 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



Biomethane compatible and
20% Hydrogen blending compatible.
Higher blending available on request