

Dival 600 H

Dival 600 H is part of Pietro Fiorentini's range of **direct-acting** gas pressure regulators with diaphragm control and spring contrast. This device is suitable for **100% hydrogen applications**. It is used in medium and low-pressure gas distribution networks. It is classified as **Fail Open** according to the European Standard EN 334.



Regasification plants



District stations



Commercial users



Small/medium industry



Electrolyzers
downstream applications



Blending units

Features	Values
Design pressure* (PS ¹ / DP ²)	up to 2 MPa up to 20 barg
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 2 MPa from (Pd + 0.1) barg to 20 barg
Range of downstream pressure (Wd ¹)	from 1.2 KPa to 420 KPa from 12 mbarg to 4200 mbarg
Available accessories	LA slam shut, built-in silencer, monitor version, relief valve
Minimum operating differential pressure (Δp _{min} ¹)	0.01 MPa 0.1 barg
Accuracy class (AC ¹)	up to 5
Lock-up pressure class (SG ¹)	up to 10 (depending on version and set point)
Nominal size (DN ^{1,2})	DN 25 1"; DN 40 1" 1/2; DN 50 2";
Connections	<ul style="list-style-type: none"> Flanged: class 150 RF according to ASME B16.5 and ASME B16.42 ANSI Class 125 FF according to ASME B16.1, PN16/25 according to ISO 7005-1 and ISO 7005-2 Threaded: Rp EN 10226-1, NPT ASME B1.20.1 (only size DN50 2")

(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 steel ASTM A216 WCB (with specific chemical composition requirements)
Cover	Aluminium
Seat	Brass
Diaphragm	Canvas rubber
O-rings	Nitrile rubber

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

Table 2 Materials

The **Dival 600 H** regulator is designed according to 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 600 H competitive advantages



Balanced type



Token IRV



Operates with low differential pressure



Top entry



High accuracy



Easy maintenance



Fail Open



Built-in accessories



High turn-down ratio



Suitable for 100% Hydrogen