Pietro Fiorentini

Dival 160 AP



The **Dival 160 AP** is one of the **direct-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for use with previously filtered non-corrosive gases, and it is mainly used for high-pressure transmission systems and for medium pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Open.** The Dival 160 AP is **Hydrogen Ready** for NG-H2 blending.

- Gas liquefaction
- Gas compression / booster stations
- Gas storage
- City gates
- Heavy industries
- Regasification
- Power generation
- LNG marine
- Gas reverse-flow

Features	Values
Design pressure* (PS[1] / DP[2])	up to 8.5 MPa up to 85 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 0.14 to 8.5 MPa from 1.4 to 85 barg
Range of downstream pressure (Wd[1])	from 0.085 to 0.45 MPa from 0.85 to 4.5 barg
Available accessories	SB/87 Slam shut
Minimum operating differential pressure (Δp_{min} [1])	0.1 MPa 1 barg
Accuracy class (AC[1])	up to 5 (depending on working conditions)
Lock-up pressure class (SG[1])	up to 10 (depending on working conditions)
Nominal size (DN[1,2])	DN 25 | 1”;
Connections	Class 300 and 600 RF or RTJ according to ASME B16.5

([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	ASTM A 216 WCB cast steel
Cover	ASTM A 105
Seat	AISI 303
Diaphragm	Vulcanized rubber
Sealing ring	Nitrile Rubber
Compression fittings	Zinc-plated carbon steel

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

Table 2 Materials

The **Dival 160 AP** 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 VIII according to ANSI/FCI 70-3.

EN 334

PED-CE

Dival 160 AP competitive advantages

- Compact and simple design
- Operates with high differential pressure
- Balanced type
- Top Entry
- Easy maintenance
- Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

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