

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

Features	Values
Design pressure* (PS ¹ / DP ²)	up to 8.5 MPa up to 1232 psig
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 20.3 to 1232 psig
Range of downstream pressure (Wd ¹)	from 0.085 to 0.45 MPa from 12.3 to 65.2 psig
Available accessories	SB/87 Slam shut
Minimum operating differential pressure (Δp _{min} ¹)	0.1 MPa 14.5 psig
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

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



Top Entry



Operates with high differential pressure



Easy maintenance



Balanced type



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