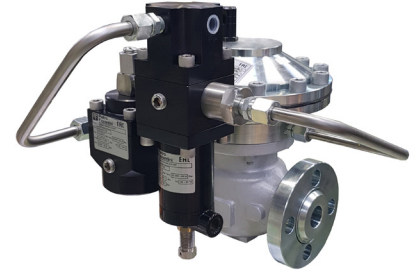







# Dixi AP

The **Dixi AP** is one of the **pilot-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 Close**. The Dixi AP is **Hydrogen Ready** for NG-H2 blending.



-  Gas storage
-  City gates
-  Power generation
-  Regasification
-  Heavy industries
-  LNG marine
-  Gas reverse-flow

Features	Values
Design pressure* (PS <sup>1</sup> / DP <sup>2</sup> )	up to 8.5 MPa up to 1232 psig
Ambient temperature* (TS <sup>1</sup> )	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 <sub>umax</sub> <sup>1</sup> )	from 0.15 to 8.5 MPa from 21.8 to 1232 psig
Range of downstream pressure (Wd <sup>1</sup> )	from 50 kPa to 2.5 MPa from 7.25 to 362 psig
Available accessories	SB/87 Slam shut
Minimum operating differential pressure (Δp <sub>min</sub> <sup>1</sup> )	0.1 MPa 14.5 psig
Accuracy class (AC <sup>1</sup> )	up to 2.5 (depending on working conditions)
Lock-up pressure class (SG <sup>1</sup> )	up to 10 (depending on working conditions)
Nominal size (DN <sup>1,2</sup> )	DN 25   1"
Connections	Class 150, 300, 600 RF or RTJ according to ASME B16.5 and PN 16 according to ISO 7005

(<sup>1</sup>) according to EN334 standard

(<sup>2</sup>) 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 A352 LCB
Heads	ASTM A350 LF2 Forged steel
Stem	AISI 416 stainless steel
Plug	AISI 416 + Vulcanized rubber
Seat	Stainless steel
Diaphragm	Vulcanized rubber
Sealing ring	Nitrile rubber
Compression fittings	According to DIN 2353 in zinc-plated carbon steel. Stainless steel on request

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

**Table 2** Materials

The **Dixi AP** regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Close) 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

## Dixi AP competitive advantages



Compact and simple design



High accuracy



1:500 High turn-down ratio



Fail Close plug and seat regulator



Built-in pilot filter



Top Entry



Easy maintenance



Built-in accessories



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



Balanced type