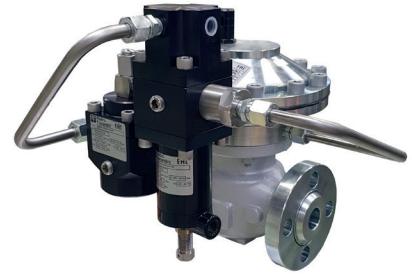





Dixi AP

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 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 0.15 to 8.5 MPa from 21.8 to 1232 psig |
| Range of downstream pressure (Wd ¹) | from 50 kPa to 2.5 MPa from 7.25 to 362 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 2.5 (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 150, 300, 600 RF or RTJ according to ASME B16.5 and PN 16 according to ISO 7005 |

(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 A 352 LCB or ASTM A 216 WCB |
| 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