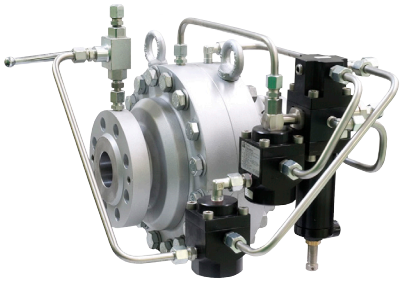
Pietro Fiorentini

# ASX 176/FO



The **ASX 176/FO** 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 Open**. The ASX 176/FO 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 10.2 MPa<br>up to 102 barg |
| Ambient temperature* (TS[1]) | from -20 °C to +60 °C<br>from -4 °F to +140 °F |
| Inlet gas temperature* | from -20 °C to +60 °C<br>from -4 °F to +140 °F |
| Inlet pressure (MAOP / $p_{umax}$ [1]) | from 0.3 to 10 MPa<br>from 3 to 100 barg |
| Range of downstream pressure (Wd[1]) | from 0.1 to 7.4 MPa<br>from 1 to 74 barg |
| Available accessories | LDB/176 Silencer, PM/176 Monitor, SSX/176 Slam shut |
| Minimum operating differential pressure ($\Delta p_{min}$ [1]) | 0.2 MPa<br>2 barg |
| Accuracy class (AC[1]) | up to 2.5 |
| Lock-up pressure class (SG[1]) | up to 10 |
| Nominal size (DN[1,2]) | DN 25 \| 1"; DN 50 \| 2"; DN 80 \| 3"; DN 100 \| 4";<br>DN 150 \| 6" |
| Connections | Class 300, 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 | Steel ASTM A350 LF2 |
| Plug | ASTM A 350 LF2 Nikel coated on sealing surface |
| Seat | Polimer / Nitril rubber vulcanized on a metal support |
| Diaphragm | Rubberized canvas (performed by hot-pressing process) |
| Sealing ring | Nitril rubber |
| Compression fittings | In zinc-plated carbon steel according to DIN 2353; 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 **ASX 176/FO** 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

## **ASX 176/FO** competitive advantages

- Balanced type
- High accuracy
- 1:500 High turn-down ratio
- True Fail Open plug and seat regulator
- Built-in pilot filter
- Cg High capacity
- 16 S High reliability vs elemental sulphur presence
- $H_2$ Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

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