Pietro Fiorentini

ASX 176



The **ASX 176** 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 ASX 176 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 up to 102 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 0.08 to 10 MPa from 0.8 to 100 barg
Range of downstream pressure (Wd[1])	from 0.03 to 7.4 MPa from 0.3 to 74 barg
Available accessories	LDB/176 Silencer, PM/176 Monitor, SSX/176 Slam shut
Minimum operating differential pressure (Δp_{min} [1])	0.05 MPa 0.5 barg
Accuracy class (AC[1])	up to 1 (depending on working conditions)
Lock-up pressure class (SG[1])	up to 5 (depending on working conditions)
Nominal size (DN[1,2])	DN 25 | 1"; DN 50 | 2"; DN 80 | 3"; DN 100 | 4"; 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	Nitrile 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** regulator is designed according to the European standard EN 334.
The regulator reacts in closing (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

ASX 176 competitive advantages

- Balanced type
- Operates with low differential pressure
- High accuracy
- High turn-down ratio
- Built-in pilot filter
- High capacity
- High reliability vs elemental sulphur presence
- Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

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