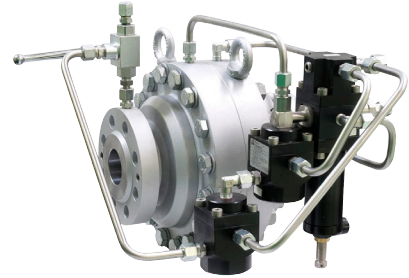


# ASX 176/FO

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

Features	Values
Design pressure* (PS <sup>1</sup> / DP <sup>2</sup> )	up to 10.2 MPa up to 1479 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 0.3 to 10 MPa from 43.5 to 1450 psig
Range of downstream pressure (Wd <sup>1</sup> )	from 0.1 to 7.4 MPa from 14.5 to 1073 psig
Available accessories	LDB/176 Silencer, PM/176 Monitor, SSX/176 Slam shut
Minimum operating differential pressure (Δp <sub>min</sub> <sup>1</sup> )	0.2 MPa 29 psig
Accuracy class (AC <sup>1</sup> )	up to 2.5
Lock-up pressure class (SG <sup>1</sup> )	up to 10
Nominal size (DN <sup>1,2</sup> )	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

(<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	Steel ASTM A350 LF2
Plug	ASTM A 350 LF2 Nickel 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



High capacity



High reliability vs elemental sulphur presence



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