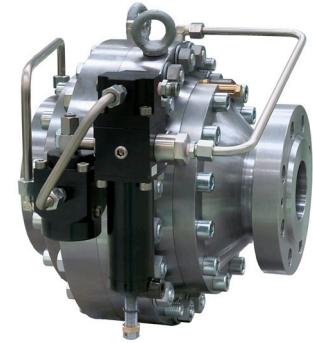







ASX 176

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

Features	Values
Design pressure* (PS ¹ / DP ²)	up to 10.2 MPa up to 1479 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 80 kPa to 10 MPa from 11.6 to 1450 psig
Range of downstream pressure (Wd ¹)	from 30 kPa to 7.4 MPa from 4.35 to 1073 psig
Available accessories	LDB/176 Silencer, PM/176 Monitor, SSX/176 Slam shut
Minimum operating differential pressure (Δp _{min} ¹)	50 kPa 7.25 psig
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

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	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



Built-in pilot filter



Operates with low differential pressure



High capacity



High accuracy



High reliability vs elemental sulphur presence



High turn-down ratio



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