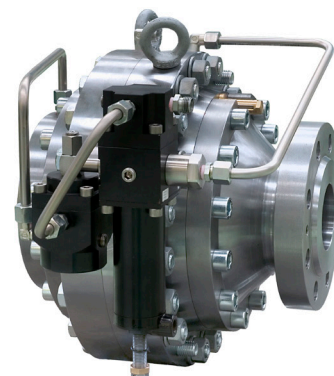


# ASX 176

**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**.



Gas liquefaction



City gates



Power generation



Gas compression / booster stations



Heavy industries



LNG marine



Gas storage



Regasification



Gas reverse-flow

Features	Values
Design pressure*	up to 10.2 MPa up to 102 barg
Ambient temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature range*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure range bpu (MAOP)	from 0.08 to 10 MPa from 0.8 to 100 barg
Range of downstream pressure Wd	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 differential pressure	0.05 MPa 0.5 barg
Accuracy class AC	up to 1 (depending on working conditions)
Lock-up pressure class SG	up to 5 (depending on working conditions)
Nominal dimensions DN	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

**(\*) REMARK: Different functional features and/or extended temperature ranges available on request. Stated temperature ranges are the maximum for which the equipment's full performance, including accuracy, are fulfilled. Standard product may have a narrower range.**

**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

**REMARK:** The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

**Table 2** Materials

**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 available with specific versions for full Hydrogen or blending