

Aperflux 101

Aperflux 101 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**.



Gas liquefaction



City gates

Gas compression /
booster stations

Heavy industries



Gas storage



Regasification

Features	Values
Design pressure*	up to 8.5 MPa up to 85 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 0.18 to 8.5 MPa from 1.8 to 85 barg
Range of downstream pressure Wd	from 0.08 to 7.4 MPa from 0.8 to 74 barg
Available Accessories	none
Minimum differential pressure	0.1 MPa - recommended > 0.2 MPa 1 barg - recommended > 2 barg
Accuracy class AC	up to 2.5 (depending on working conditions)
Lock-up pressure class SG	up to 10 (depending on working conditions)
Nominal dimensions DN	DN 50 / 2"; DN 80 / 3"; DN 100 / 4";
Connections*	Class 300/600 RF / RTJ according to ANSI B 16.5

(*) 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	Cast steel ASTM A352 LCC for rating 300 and 600
Cover	Rolled or forged carbon steel A350 LF2
Seat	Stainless steel
Diaphragm	Vulcanized rubber
Sealing ring	Nitrile rubber
Compression fittings	According to DIN 2353 in zinc-plated carbon steel

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

Table 2 Materials

Aperflux 101 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

Aperflux 101 competitive advantages



Compact and simple design



Easy maintenance



1:500 High turn-down ratio



Balanced type



Low noise



Biomethane compatible and available with specific versions for full Hydrogen or blending



Top Entry