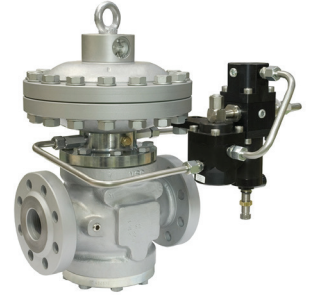









Reflux 819

The **Reflux 819** 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, power plants and for medium pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Close**. The Reflux 819 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
-  Gas engines

Features	Values
Design pressure* (PS ¹ / DP ²)	up to 10.2 MPa up to 1,479 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 0.05 MPa to 10.0 MPa from 7.25 psig to 1,450 psig
Range of downstream pressure (Wd ¹)	from 0.03 MPa to 7.4 MPa from 4.35 psig to 1,073 psig
Available accessories	DB/819 Silencer, LDB/171 Silencer, PM/819 Monitor, SB/82 Slam shut, HB/97 Slam shut
Minimum operating differential pressure (Δp _{min} ¹)	0.05 MPa 7.25 psig
Accuracy class (AC ¹)	up to 1
Lock-up pressure class (SG ¹)	up to 2.5
Nominal size (DN ^{1,2})	DN 25 1"; DN 50 2"; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10"; DN 300 12"
Connections	Class 150, 300, 600 RF or RTJ according to ASME B16.5 and PN16 according to ISO 7005

(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	ASTM A 352 LCC cast steel for classes ANSI 600 and 300; ASTM A 216 WCB cast steel for classes ANSI 150 and PN 16/40
Heads	ASTM A 350 LF2 steel
Stem	AISI 416 stainless steel
Plug	ASTM A 350 LF2 nickel-plated steel
Seat	Vulcanized Nitrile Rubber on metal support
Diaphragm	Rubberised Canvas (pre-formed by hot-pressing process)
O-rings	Nitrile Rubber
Compression fittings	Made of zinc-plated steel according to DIN 2353; on request, stainless steel

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

Table 2 Materials

The **Reflux 819** 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

Reflux 819 competitive advantages



Compact and simple design



Top Entry



High accuracy



Easy maintenance



1:1000 High turn-down ratio



Built-in accessories



Fail Close plug and seat regulator



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



Built-in pilot filter



Balanced type