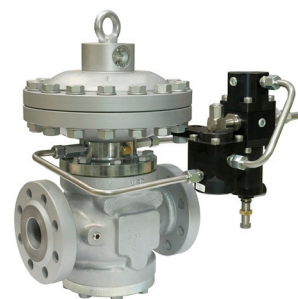



Reflux 819

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 or Fail Open according to the installed pilot (except for the PM819 monitor).



 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 1479 psig	
Ambient temperature* (TS ¹)	Standard version from -20 °C to +60 °C from -4 °F to +140 °F	Arctic version from -40 °C to +60 °C from -40 °F to +140 °F
Inlet gas temperature*	Standard version from -10 °C to +60 °C from +14 °F to +140 °F	Arctic version from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure (MAOP / p _{umax} ¹)	from 50 kPa to 10.0 MPa from 7.25 to 1450 psig	
Range of downstream pressure (Wd ¹)	from 30 kPa to 7.4 MPa from 4.35 to 1073 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)	50 kPa 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

Reflux 819 regulator is designed according to European standard EN 334.

The regulator reacts in closing (Fail Close) or opening (Fail Open) according to EN 334 depending on the pilot installed.

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*

*Not applicable for regulators with pilot series 210

Reflux 819 competitive advantages



Compact and simple design



High accuracy



1:1000 High turn-down ratio



Fail Close or Fail open plug and seat regulator



Built-in pilot filter



Top Entry



Easy maintenance



Built-in accessories



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



Balanced type