

# Reflux 819/FO

**Reflux 819/FO** 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 Open**.



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 1,479 psig
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 0.3 MPa to 10.2 MPa from 43.5 psig to 1,479 psig
Range of downstream pressure Wd	from 0.1 MPa to 7.4 MPa from 14.5 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 differential pressure	0.2 MPa   29 psig
Accuracy class AC	up to 2.5
Lock-up pressure class SG	up to 5
Nominal dimensions DN	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

**(\*) 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	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
Membrane	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

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

**Table 2** Materials

**Reflux 819/FO** 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). DVGW certified as a truly Fail Open regulator. Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE



DVGW

## Reflux 819/FO competitive advantages



Compact and simple design



Top Entry



High accuracy



Easy maintenance



1:1000

High turn-down ratio



Built-in accessories



True Fail Open plug and seat regulator



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



Built-in pilot filter



Balanced type