

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 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 0.3 to 10.2 MPa from 3 to 102 barg
Range of downstream pressure Wd	from 0.1 to 7.4 MPa from 1 to 74 barg
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 2 barg
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