

Reflux 919

The **Reflux 919** by Pietro Fiorentini is a control diaphragm valve specifically designed for natural gas or other preliminarily filtered non-corrosive gases applications. It can be supplied as direct-action (air to close) or reverse action (air to open) configuration. This device is mainly used in high-pressure transmission systems and in medium pressure gas distribution networks.



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 1479 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 0.1 to 10.0 MPa from 14.5 to 1450 psig
Range of downstream pressure when in pressure control mode	from 50 kPa to 9.5 MPa from 7.25 to 1377 psig
Pneumatic control loop input (applicable to pneumatic positioner option)	from 21 to 103 kPa or from 42 to 206 kPa from 3 to 15 psig or from 6 to 30 psig
Electric control loop (applicable for electro-pneumatic positioner option)	4 ÷ 20 mA
Available Accessories	DB/819 Silencer, PM/819 Monitor, SB/82 Slam shut, HB/97 Slam shut
Nominal dimensions DN	DN 25 1"; DN 50 2"; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10";
Connections*	Class 150, 300, 600 RF or RTJ according to ASME B16.5 and PN16 according to ISO 7005

(*) 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	Die stamped carbon steel
Stem	AISI 416 stainless steel
Plug	ASTM A 350 LF2 nickel-plated steel
Seat	Carbon steel + vulcanized rubber
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 919** valve is designed according to the European standard EN 334. The control valve can react in opening (Fail Open) or closing (Fail Close) according to EN 334 depending on the purchased version. 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 919 competitive advantages



Compact and simple design



High accuracy



1:500 High turn-down ratio



Fail to Close or Fail to Open option



High efficiency silencer option



Top Entry



Easy maintenance



Built-in accessories



Electro-pneumatic control loop option



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