Pietro Fiorentini

Reflux 919

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
- Gas compression / booster stations
- Gas storage
- City gates
- Heavy industries
- Regasification
- Power generation
- LNG marine
- 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 0.1 to 10.0 MPa from 1 to 100 barg
Range of downstream pressure when in pressure control mode	from 0.05 to 9.5 MPa from 0.5 to 95 barg
Pneumatic control loop input (applicable to pneumatic positioner option)	from 0.021 to 0.103 MPa or from 0.042 to 0.206 MPa 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

(*) 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

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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	Dye 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 zync-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 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
- 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