Pietro Fiorentini

Reval 182

The **Reval 182** 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 medium and low pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as Fail Close (pilot series 200/A) or Fail Open (pilot series 210/A) according to the installed pilot (except for the PM/182 monitor).

Gas engines

Medium / small industry

District stations

Features	Values	
Design pressure* (PS[1] / DP[2])	up to 2.5 MPa up to 25 barg	
Ambient temperature* (TS[1])**	**Standard version** from -20 °C to +60 °C from -4 °F to +140 °F	**Arctic version** from -29°C to + 60°C from -20 °F to +140 °F
Inlet gas temperature*,***	**Standard version** from -20 °C to +60 °C from -4 °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 0.02 to 2.5 MPa from 0.2 to 25 barg	
Range of downstream pressure (Wd[1])	from 0.7 KPa to 1.2 MPa from 7 mbarg to 12 barg	
Available accessories	DB/182 Silencer, PM/182 Monitor, SB/82 Slam shut, SA Slam shut HB/97 Slam shut, opening indicator	
Minimum operating differential pressure (Δp_{min} [1])	0.01 MPa | 0.1 barg	
Accuracy class (AC[1])	up to 2.5 | up to 1% absolute (depending on working conditions)	
Lock-up pressure class (SG[1])	up to 5	
Nominal size (DN[1,2])	DN 25 | 1"; DN 50 | 2"; DN 65 | 2" 1/2; DN 80 | 3"; DN 100 | 4"; DN 150 | 6"; DN 200 | 8"; DN 250 | 10"	
Connections	Class 150 RF or RTJ according to ASME B16.5 and PN16, 25 and 40 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.
(**) NOTE: Stated temperature range is the operating range for which the equipment's mechanical resistance and leakage rate are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.
(***) NOTE: Stated temperature range is the range for which the equipment's full performance, including accuracy and lock-up are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.

Table 1 Features

Pietro Fiorentini

Materials and Approvals

Part	Material
Body	Cast steel ASTM A216 WCB for all sizes Ductile iron GS 400-18 ISO 1083 for Size ≤ 8”
Heads	Die stamped carbon steel
Stem	AISI 416 Stainless steel
Plug	ASTM A 350 LF2 Nickel coated on sealing surfaces
Seat	Steel + vulcanized rubber
Diaphragm	Rubberized canvas
O-rings	Nitrile Rubber
Compression fittings	In zinc-plated carbon steel according to DIN 2353 Stainless steel on request
NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.	

Table 2 Materials

The **Reval 182** regulator is designed according to the 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

Reval 182 competitive advantages

- Compact and simple design
- High accuracy
- 1:500 High turn-down ratio
- Fail Close plug and seat regulator
- Built-in pilot filter
- Top Entry
- Easy maintenance
- In-built accessories
- Balanced type
- Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

Pietro Fiorentini S.p.A.
Via E.Fermi, 8/10 | 36057 Arcugnano, Italy | +39 0444 968 511
sales@fiorentini.com