Pietro Fiorentini

Terval/R

The **Terval/R** 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.**

District stations

Features	Values
Design pressure* (PS[1] / DP[2])	up to 2.5 MPa up to 362 psig
Ambient temperature* (TS[1])	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure (MAOP / p_{umax}[1])	from 50 kPa to 2.5 MPa from 7.25 to 3.62 psig
Range of downstream pressure (Wd[1])	from 0.8 kPa to 1.2 MPa from 3.2"w.c. to 174 psig
Available accessories	DB/182 Silencer
Minimum operating differential pressure (Δp_{min}[1])	10 kPa 1.45 psig
Accuracy class (AC[1])	up to 2.5
Lock-up pressure class (SG[1])	up to 5
Nominal size (DN[1,2])	DN 50 | 2"; DN 65 | 2" 1/2; DN 80 | 3"; DN 100 | 4"
Connections	Class 150 RF or RTJ according to ASME B 16.5 and PN 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.

Table 1 Features

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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	According to DIN 2353 in zinc-plated carbon steel

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

Table 2 Materials

The **Terval/R** regulator is designed according to the European standard EN 334.
The regulator reacts in closing (Fail Close) according to EN 334.
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

Terval/R competitive advantages

- Balanced type
- Operate with low differential pressure
- High accuracy
- 3 functions in 1 body
- Built-in pilot filter
- Top Entry
- Easy maintenance
- Low noise
- Built-in accessories
- Biomethane compatible and 10% Hydrogen blending compatible. Higher blending available on request

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