Pietro Fiorentini

Terval/R

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*	up to 2.5 MPa up to 25 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 0.05 to 2.5 MPa from 0.5 to 25 barg
Range of downstream pressure Wd	from 0.0008 to 1.2 MPa from 0.008 to 12 barg
Available Accessories	DB/182 Silencer
Minimum differential pressure	0.01 MPa 0.1 barg
Accuracy class AC	up to 2.5
Lock-up pressure class SG	up to 5
Nominal dimensions DN	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

(*) 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	Cast steel ASTM A216 WCB for all sizes Ductile iron GS 400-18 ISO 1083 for Size ≤ 8”
Heads	Dye 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

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

Table 2 Materials

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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