

# 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 <sup>1</sup> / DP <sup>2</sup> )	up to 2.5 MPa up to 362 psig
Ambient temperature* (TS <sup>1</sup> )	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 <sub>umax</sub> <sup>1</sup> )	from 50 kPa to 2.5 MPa from 7.25 to 3.62 psig
Range of downstream pressure (Wd <sup>1</sup> )	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 <sub>min</sub> <sup>1</sup> )	10 kPa 1.45 psig
Accuracy class (AC <sup>1</sup> )	up to 2.5
Lock-up pressure class (SG <sup>1</sup> )	up to 5   up to 1% absolute (depending on working conditions)
Nominal size (DN <sup>1,2</sup> )	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

(<sup>1</sup>) according to EN334 standard

(<sup>2</sup>) 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

## 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



Top Entry



Operate with low differential pressure



Easy maintenance



High accuracy



Low noise



3 functions in 1 body



Built-in accessories



Built-in pilot filter



Biomethane compatible and 10% Hydrogen blending compatible. Higher blending available on request