

Terval/A

The **Terval/A** 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 Open**.



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 362 psig
Range of downstream pressure (Wd ¹)	from 0.5 to 950 kPa from 2" w.c. to 137 psig
Available accessories	DB Silencer
Minimum operating differential pressure (Δp _{min} ¹)	45 kPa 6.5 psig
Accuracy class (AC ¹)	up to 5 up to 1% absolute (depending on working conditions)
Lock-up pressure class (SG ¹)	up to 10
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

Materials and Approvals

Part	Material
Body	Cast steel ASTM A216 WCB for all sizes Ductile iron GS 400-18 ISO 1083 for all sizes
Cover	Rolled or forged carbon steel
Seat	Technopolymer
Diaphragm	Vulcanized rubber
Sealing ring	Nitrile rubber
Compression fittings	According to DIN 2353 in zinc-plated carbon steel. 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 **Terval/A** regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Open) 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/A competitive advantages



Balanced type



Top Entry



Operates 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