

Terval/AP

The **Terval/AP** by Pietro Fiorentini is a **pilot-operated** gas pressure regulator. Mainly used for high and medium pressure natural gas distribution networks. It should be used with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as **Fail Close**. The Terval/AP is **Hydrogen Ready** for NG-H2 blending.



City gates

Features	Values
Design pressure* (PS ¹ / DP ²)	up to 10.2 MPa up to 102 barg
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 0.05 to 10.0 MPa from 0.5 to 100 barg
Range of downstream pressure (Wd ¹)	from 0.03 to 7.4 MPa from 0.3 to 74 barg
Available accessories	DB/819 Silencer
Minimum operating differential pressure (Δp _{min} ¹)	0.05 MPa 0.5 barg
Accuracy class (AC ¹)	up to 1
Lock-up pressure class (SG ¹)	up to 2.5
Nominal size (DN ^{1,2})	DN 25 1"; DN 50 2"; DN 80 3"; DN 100 4" **;
Connections	Class 300, 600 RF or RTJ according to ASME B16.5

(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.
(**) available on special request.

Table 1 Features

Materials and Approvals

Part	Material
Body	ASTM A 352 LCC cast steel for classes ANSI 600 and 300
Heads	ASTM A 350 LF2 steel
Stem	AISI 416 stainless steel
Plug	ASTM A 350 LF2 nickel-plated steel
Seat	Vulcanized Nitrile Rubber on metal support
Diaphragm	Rubberised Canvas (pre-formed by hot-pressing process)
O-rings	Nitrile Rubber
Compression fittings	Made of zinc-plated steel according to DIN 2353; on request, stainless steel

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

Table 2 Materials

Terval/AP 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*

*limited to 1" and 2"

Terval/AP competitive advantages



Balanced type



Top Entry



Fail Close plug and seat regulator



Easy maintenance



High accuracy



High turn-down ratio



3 functions in 1 body



Built-in accessories



Built-in pilot filter



Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request