Pietro Fiorentini

HP 100

The **HP 100** by Pietro Fiorentini is a **spring loaded** gas pressure regulator controlled by a diaphragm and contrasting regulated spring action. Mainly used for medium and low pressure natural gas distribution networks, as well as commercial and industrial applications. It should to be used with previously filtered non-corrosive gases and it has available a specific version for liquefied petroleum gas (LPG). According to the European Standard EN 334, it is classified as **Fail Open**. The HP 100 is **Hydrogen Ready** for NG-H2 blending.

Medium/small industry

Commercial users

Features	Values	
Design pressure* (PS[1] / DP[2])	up to 2 MPa up to 290 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 0.1 to 2 MPa from 14.5 to 290 psig	
Range of downstream pressure (Wd[1])	• from 20 to 79.9 kPa for AP, from 80 to 450 kPa for AP TR • from 2.9 to 11.59 psig for AP, from 11.6 to 65.2 psig for AP TR	
Available accessories	Relief valve, slam shut (SSV can not be retrofitted after purchase)	
Minimum operating differential pressure (Δp_{min} [1])	0.05 MPa 7.25 psig	
Accuracy class (AC[1])	up to 10 (AC 5 available on request)	
Lock-up pressure class (SG[1])	up to 10	
Nominal size (DN[1,2])	**inline version**	1”x1”
	90° version	1”x1-1/2”
Connections	Threaded EN 10226-1 (for all version), NPT ASME B1.20.1 (for inline version only), custom fittings available on request	

([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	Aluminum
Cover	Aluminum
External treatments	High resistance dust polyurethane coating
NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.	

Table 2 Materials

The **HP 100** regulators are designed according to the European standard EN 334.
The regulator reacts in opening (Fail Opening) according to EN 334.
The product is certified according to European Directive 2014/68/EU (PED).
Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.

EN 334

PED-CE

HP 100 competitive advantages

- Balanced type
- Operates with high differential pressure
- High accuracy
- Fail Open
- Top Entry
- Easy maintenance
- Built-in accessories
- Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

Pietro Fiorentini S.p.A.
Via E.Fermi, 8/10 | 36057 Arcugnano, Italy | +39 0444 968 511
sales@fiorentini.com

Pietro Fiorentini USA Inc
606 Park Drive | Weirton, WV 26062, USA | +1 304 232 9115
fio.westvirginia@fiorentini.com