Pietro Fiorentini

FE515

The **FE515** is a two-stage gas pressure regulator by Pietro Fiorentini. It is particularly suitable for low pressure natural gas distribution networks for residential and commercial users. It should be used with previoulsy filtered non-corrosive Natural Gas or LPG. According to the European Standard EN 334, it is classified as **Fail Close** because it is always supplied with an overpressure protection device (slam shut valve).

Commercial users

Residential users

Features	Values		
Design pressure* (PS1 / DP[2])	0.515 MPa 5.15 bar		
Inlet pressure (MAOP / pumax[1])	10 - 515 kPa 0.1 - 5.15 bar		
Nominal capacity	6 - 25 m^3/h 212 - 875 ft^3/h		
	BP version	**TR version**	
Range of downstream pressure Wds	1.3 - 18 kPa 13 - 180 mbar	18.1 - 50 kPa 181 - 500 mbar	
Range of downstream pressure Wdso	2.5 - 30 kPa 25 - 300 mbar	30 - 80 kPa 300 - 800 mbar	
Accuracy class (AC)	10		
Lock-up over pressure (SG)	20		
	Standard version	**Extended temperature version**	**Arctic version**
Ambient temperature* (TS[1])	from -20 °C to +60 °C from -4 °F to +140 °F	from -30°C to + 60°C from -22 °F to +140 °F	from -40°C to + 60°C from -40 °F to +140 °F
Inlet gas temperature*	from -10°C to + 60°C from +14 °F to +140 °F	from -20°C to + 60°C from -4 °F to +140 °F	from -30 °C to +60 °C from -22 °F to +140 °F
Body connection	Inlet G 1/2" and outlet G 1" or G 3/4" according to ISO 228/1, other configurations or connections on request		
Fittings	• Gas (as per UNI EN ISO 228-1:2003); • Flat swivel joint (as per NF E29-533: 2014 and NF E29-536: 2017); • NPT (according to ASME B1.20.1, excluding connections with metal/metal sealing).		

connections 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
Diaphragm and seats	Nitrile rubber for BP version Rubberized fabric for TR version
Sealing rings	Nitrile
Body and cover	Zamak
Seat	Zamak

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

Table 2 Materials

The **FE515** regulator is designed in compliance with European standard EN 13611.
Based on the version/configuration, the FE515 regulator complies with:

EN 13611 | UNI 8827 | EN 16129 | EN 88-2 | UNI 11655

FE515 competitive advantages

- Operates with low differential pressure
- Slam shut for overpressure
- Two-stage regulation with balanced first stage plug
- High customisation
- Integrated thermal valve option
- Built-in filter
- Integrated flow limiter valve option which enable UPSO
- Suitable for outdoor installations

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