

Mod. FE

FE is one of the **direct-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for use with previously filtered, non-corrosive gases and is particularly indicated for low-pressure natural gas distribution networks for residential and commercial fixtures. The **FE** regulator is classified as **Fail Close** (only version with slam-shut device valve for downstream overpressure).

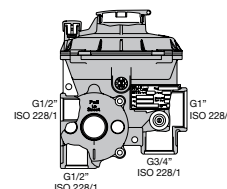


Commercial fixtures



Residential fixtures

Features	Values	
Design pressure (DP)	0.86 MPa 8.6 bar	
Inlet pressure range	0.01 - 0.7 MPa (on request up to 0.86 MPa) 0.1 - 7 bar (on request up to 8.6 bar)	
Regulator capacity	212 - 1765 ft ³ /h 6 - 50 m ³ /h	
Adjustment range of downstream pressure	BP Version	1.3 - 18 KPa 13 - 180 mbar
	TR Version	18.1 - 50 KPa 181 - 500 mbar
Accuracy class (AC)	10	
Lock-up over pressure (SG)	20	
Operating ambient temperature*	Standard version	from -20 °C to +60 °C from -4 °F to +140 °F
	Extended minimum temperature version	from -30°C to +60°C from -22 °F to +140 °F
	Low temperature version (Subzero)	from -40°C to +60°C from -4 °F to +140 °F
Permissible gas temperature	Standard version	from -10°C to +60°C from +14 °F to +140 °F
	Extended minimum temperature version	from -15°C to +60°C from +5 °F to +140 °F
	Low temperature version (Subzero)	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet connection	G 1/2" EN ISO 228/1 (modular connections on request)	
Outlet connection	<ul style="list-style-type: none"> In-line outlet: G 1" EN ISO 228/1 Outlet in a square pattern: G 3/4" EN ISO 228/1 (modular connections on request)	
Modular connections	<ul style="list-style-type: none"> 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); Special accessories (on request). 	



(*) REMARK: Different functional features and/or extended temperature ranges available on request. Stated temperature ranges are the maximum for which the equipment's full performance, including accuracy, are fulfilled. Standard product may have a narrower range.

Table 1 Features

Materials and Approvals

Part	Material
<ul style="list-style-type: none"> Diaphragm O-rings 	Nitrile rubber (TR rubberised canvas)
<ul style="list-style-type: none"> Caps Discs 	Plastic
<ul style="list-style-type: none"> Springs 	Steel
<ul style="list-style-type: none"> Equipment body Lids Seat 	Zamak metal alloy
<ul style="list-style-type: none"> Equipment body Lids 	Aluminium alloy (on request) (standard for CSA version)
NOTE: the materials indicated above refer to the standard models. Different materials can be provided according to specific needs.	

Table 2 Materials

The **FE** regulator is designed in compliance with European standard EN 334. Based on the version/configuration, the FE regulator complies with:



EN 334



UNI 8827



EN 16129



EN 88-2



UNI 11655



CSA 6.18



ANSI
B109.4



NF
E29-190-2

FE competitive advantages



Operates with low differential pressure



Slam-shut valve for overpressure
Slam-shut valve for underpressure



Two-stage regulation with balanced first stage plug



High customisation



Integrated thermal valve option



Built-in filter



Integrated flow limiter valve option



Suitable for outdoor installations



Compatible with biomethane and blended hydrogen up to 20%. Higher mixtures available on request