

Mod. FEX

FEX 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 **FEX** regulator is classified as **Fail Close** (only the version with slam-shut device for downstream overpressure).

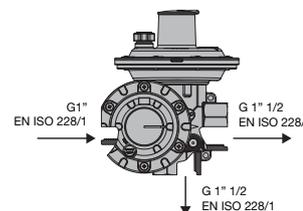


Commercial fixtures



Residential fixtures

Features	Values	
Design pressure (DP)	0.86 MPa 8.6 bar	
Inlet pressure range	0.01 - 0.86 MPa 0.1 - 8.6 bar	
Regulator capacity	1765 - 3530 ft ³ /h 50 - 100 m ³ /h	
Adjustment range of downstream pressure	BP Version	1.3 - 9.9 kPa 13 - 99 mbar
	MP version	10 - 35 kPa 100 - 350 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
	Low temperature version (Subzero)	from -40°C to + 60°C from -40 °F to +140 °F
Permissible gas temperature	Standard version	from -10°C to + 60°C from +14 °F to +140 °F
	Low temperature version (Subzero)	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet connection	G 1" EN ISO 228/1 (modular connections on request)	
Outlet connection	<ul style="list-style-type: none"> In-line outlet: G 1" 1/2 EN ISO 228/1 Outlet in a square pattern: G 1" 1/2" 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 (MP 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 	Aluminium alloy

Table 2 Materials

Construction Standards and Approvals

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



EN 13611



UNI 8827



EN 16129



EN 88-2



UNI 11655



CSA 6.18



ANSI
B109.4



NF
E29-190-2

FEX competitive advantages



Operates with low differential pressure



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



Two-stage regulation with balanced first and second stage plug



High customisation



Built-in filter



Integrated thermal valve option



Suitable for outdoor installations



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