

FΕ

Low-pressure gas regulator







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Who we are

We are a global organization that specializes in designing and manufacturing technologically advanced solutions for natural gas treatment, transmission and distribution systems.

We are the ideal partner for operators in the Oil & Gas sector, with a business solutions that span the whole natural gas chain.

We are constantly evolving to meet our customers' highest expectations in terms of quality and reliability.

Our aim is to be a step ahead of the competition, with customized technologies and an after-sale service program undertaken with the highest level of professionalism.



Pietro Fiorentini advantages



Localized technical support



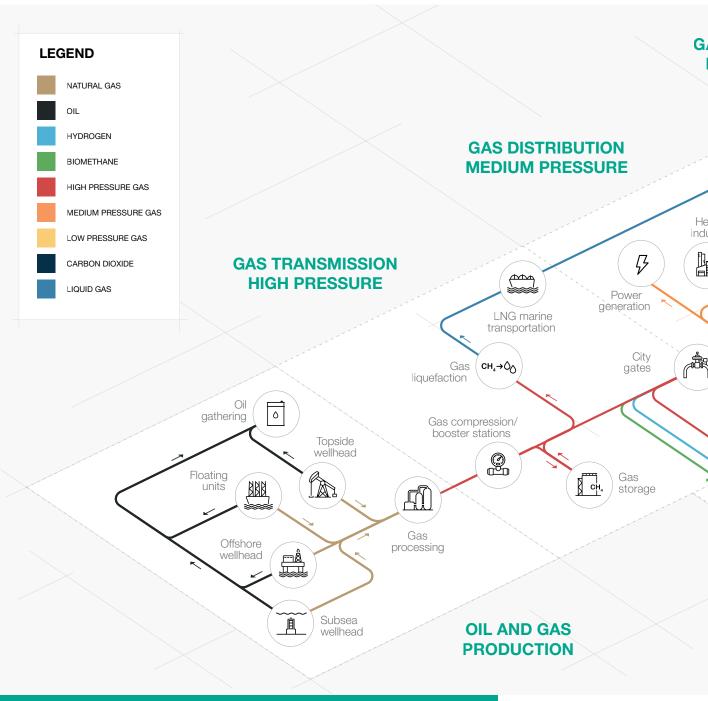
Experience since 1940



Operating in over 100 countries



Area of Application



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Green icon indicates the application where this product is suitable for



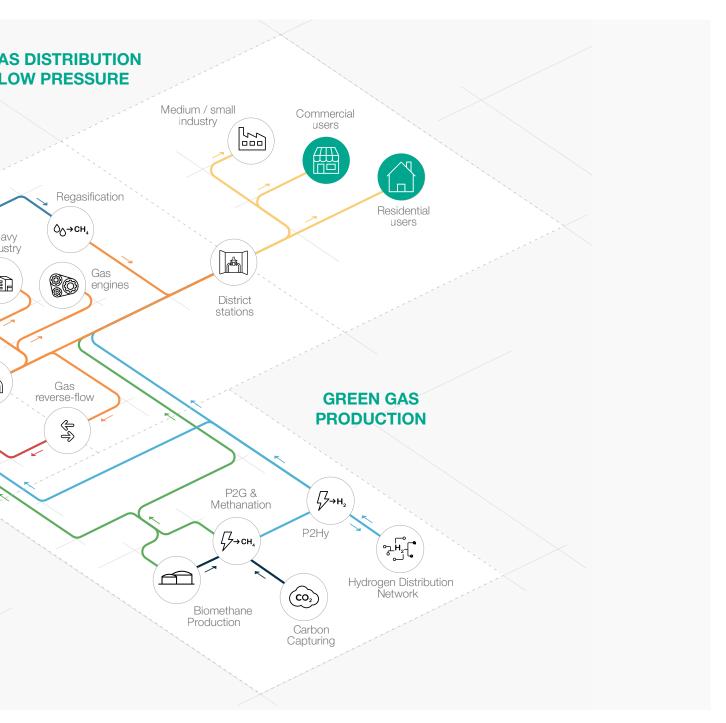


Figure 1 Area of Application Map

Introduction

The **FE** is a two-stage gas pressure regulator by Pietro Fiorentini. There are two types of the regulator:

- FE25 / FE50 spring loaded lever operated;
- FE75 / FE100 spring loaded direct acting.

It is particularly suitable for low pressure natural gas distribution systems for residential and commercial users. It should be used with previously filtered non-corrosive gases including biomethane and natural gas blended with hydrogen.

According to the International Standard ISO 23555-2 and European Standard EN 334, it is classified as **Fail Close** because it is always supplied with an overpressure protection device (slam shut valve).

The FE is **Hydrogen Ready** for NG-H2 blending.

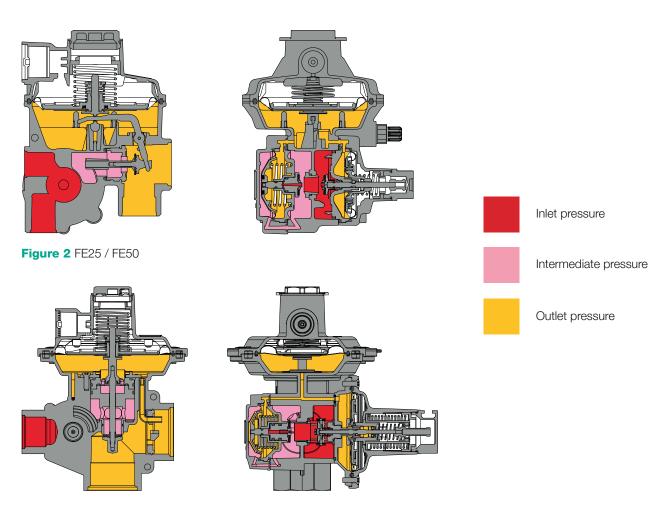


Figure 3 FE75 / FE100



Features and setting ranges

The FE is a two-stage device for low pressure equipped with integrated slam shut (overpressure shut-off OPSO for all models and optional underpressure shut-off UPSO for FE75 / FE100), optional excess flow valve (EFV) which enable UPSO feature (for FE25 / FE50) and fire protection valve.

The balanced first stage regulation limits the pressure variation to the second stage, so it is possible to reach high accuracy of the regulated outlet pressure. Therefore, a balanced double stage regulator has a single-size orifice for all pressure and flow conditions.

The FE can be installed in vertical or horizontal position.

The FE regulator is highly customizable in terms of settings, fittings and accessories.





Figure 4 FE25 (max flow rate 875 scfh | 25 Sm³/h) and FE50 (max flow rate 1,500 scfh | 43 Sm³/h)

Figure 5 FE75 (max flow rate 2,600 scfh | 75 Sm³/h) and FE100 (max flow rate 3,500 scfh | 100 Sm³/h)

FE competitive advantages



Operates with low differential pressure



Slam shut for overpressure Slam shut for underpressure (FE75 / FE100 only)



Two-stage double diaphragm and single orifice regulator



Highly customizable



Suitable for 1 ft clearance installation with 2.5 cf/h limited venting



Built-in thermal valve option



Built-in strainer



Built-in flow limiter valve option which enable UPSO feature (FE25 / FE50 only)



Suitable for outdoor installations



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

Features FE25 / FE50

Features	Values			
Design pressure* (PS¹ / DP²)	up to 860 kPa up to 125 psig			
	Standard version	Arctic version		
Ambient temperature* (TS1)**	-30°C to +65°C -20°F to +150°F	-40°C to +65°C -40°F to +150°F		
Inlet gas temperature*,***	-20°C to +65°C -4°F to +150°F	-30°C to +65°C -20°F to +150°F		
Inlet pressure (MAOP / p _{umax} 1)	from 10 kPa to 0.86 MPa from 1.45 psig to 125 psig			
	BP version	MP version		
Range of downstream pressure Wds	from 1.3 kPa to 18 kPa from 5.2"w.c. to 2.6 psig	from 30 kPa to 40 kPa from 4.35 psig to 5.8 psig		
Range of downstream pressure Wdso	from 3.5 kPa to 24.1 kPa from 14"w.c. to 3.5 psig	from 30 kPa to 80 kPa from 4.3 psig to 11.6 psig		
Minimum inlet pressure and nominal capacity	The state of the s	with 28 kPa 4 psig differential pressure ch with 69 kPa 10 psig differential pressure		
Accuracy class (AC1)	10			
Lock-up pressure class (SG1)	20, minimum 0.75 kPa 3" w.c.			
Connections*	In-line 3/4" or 1" NPT according to AN nections on request	SI B1.20.1, other configurations or con-		

⁽¹⁾ according to EN334 standard

Table 1 Features FE25 / FE50

maximum for which the equipment's full performance, including accuracy is guaranteed. Product may have a different pressure or temperature ranges

^(**) NOTE: Stated temperature range is the operating range for which the equipment's mechanical resistance and leakage rate are guaranteed. Some body

materials, if multiple choices are available, may not be suitable for all the available versions shown.

(***) NOTE: Stated temperature range is the range for which the equipment's full performance, including accuracy and lock-up are guaranteed. Some body



Features FE75 / FE100

Features	Values			
Design pressure* (PS¹ / DP²)	up to 860 kPa up to 125 psig			
	Standard version	Arctic version		
Ambient temperature* (TS1)**	-30°C to +65°C -20°F to +150°F	-40°C to +65°C -40°F to +150°F		
Inlet gas temperature*,***	-20°C to +65°C -4°F to +150°F	-30°C to +65°C -20°F to +150°F		
Inlet pressure (MAOP / p _{umax} 1)	from 50 kPa to 0.86 MPa from 7.25 psig to 125 psig			
	BP version	MP version		
Range of downstream pressure Wds	from 1.3 kPa to 16 kPa from 5.2"w.c. to 2.3 psig	from 14 kPa to 35 kPa from 2 psig to 5.1 psig		
Range of downstream pressure Wdso	from 3.2 kPa to 23.1 kPa from 12.6" w.c. to 3.35 psig	from 21 kPa to 55.2 kPa from 3 psig to 8 psig		
Range of downstream pressure Wdsu	from 0.6 kPa to 25 kPa from 2.4" w.c. to 3.6 psig	-		
Minimum inlet pressure and nominal capacity		th with 50 kPa 7.25 psig differential pressure scfh with 69 kPa 10 psig differential pressure		
Accuracy class (AC1)	10			
Lock-up pressure class (SG1)	20, minimum 0.75 kPa 3" w.c.			
Connections*	In-line 1", 1"1/2 NPT according to ANSI B1.20.1, other configurations or connections on request			
(1) according to EN334 standard				

Table 2 Features FE75 / FE100

⁽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.

(**) NOTE: Stated temperature range is the operating range for which the equipment's mechanical resistance and leakage rate are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.

(***) NOTE: Stated temperature range is the range for which the equipment's full performance, including accuracy and lock-up are guaranteed. Some body materials, if multiple choices are available, may not be suitable for all the available versions shown.



Materials and Approvals

Part	Material
Body	Aluminum
Cover	Aluminum
Diaphragms and seats	Nitrile rubber for BP version Rubberized fabric for MP version
Sealing rings	Nitrile

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

Table 3 Materials

Construction Standards and Approvals

The FE regulator is designed according to the Internation standard ISO 23555-2, European standard EN 16129, Italian Standard UNI 11655, ANSI B109.4, CSA 6.18 and ANSI Z21.80.

The FE25 / FE50 / FE75 / FE100 BP versions are CSA certified.

ANSI Z21.80 certification is limited to 70 kPa | 10 psig maximum inlet pressure.

Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.













EN16129

UNI 11655

ANSI B109.4

CSA 6.18

ANSI Z21.80

ISO 23555-2



Design pressure

Design pressure (PS according to EN334)					
	Body		Slam shut		
	MPa	psig	MPa	psig	
all versions	0.86	125	0.86	125	

Table 4 Design pressure for body and slam shut

Maximum allowable operating pressure

MAOP Maximum Allowable Operating Pressure (p _{umax} according to EN334)						
			Contro	ol head		
	Version	FE BP		FE MP		
		MPa	psig	MPa	psig	
WITHOUT CE MARKING	all versions	0.86	125	0.86	125	

Table 5 MAOP Maximum Allowable Operating Pressure without CE marking



Springs ranges and control heads

Control heads pressure ranges						
	Contro B	ol head P	Contro M	Spring Table web link		
Model	kPa	psig	kPa	psig		
FE25 / FE50	1.49 - 18	0.18 - 2.6	30 - 40	4.35 - 5.8	<u>TT 1868</u>	
FE75/FE100	1.3 - 14	0.19 - 2	14 - 35	2 - 5.1	<u>TT 1869</u>	

Table 6 Settings table

Range of the springs for FE25						
Color	Code Model Range					
			kPa	" W.C.		
YELLOW	US64470401GI		1.5 - 2.2	6 - 9		
GREEN	US64470360VE		2.2 - 2.8	8.8 - 11.2		
RED	US64470361RO	BP	2.8 - 3.8	11.2 - 15.3		
		DP	kPa	psig		
GREY	US64470364GR		10 - 14	1.45 - 2.0		
BLACK	US64470365NE		14 - 18	2.0 - 2.6		
BLACK	US64470365NE	MP	30 - 40	4.35 - 5.8		

Table 7 Settings table for FE25

Range of the springs for FE50						
Color	Code Model Range					
			kPa	" W.C.		
BLUE	US64470358BL		1.5 - 2.2	6 - 9		
YELLOW	US64470401GI		2.1 - 2.6	8.5 - 10.5		
GREEN	US64470360VE	DD	2.6 - 3.2	10.5 - 13		
		BP	kPa	psig		
GREY	US64470364GR		10 - 14	1.45 - 2.0		
BLACK	US64470365NE		14 - 18	2.0 - 2.6		
BLACK	US64470365NE	MP	30 - 40	4.35 - 5.8		

Table 8 Settings table for FE50



Range of the springs for FE75 / FE100						
Color	Code	Model	Range			
			kPa	" W.C.		
WHITE	US64470513BI		1.3 - 2	5.2 - 8		
ORANGE	US64470514AR		2 - 2.6	8 - 10.5		
GREEN	US64470515VE		2.6 - 4	10.5 - 16		
RED	US64470516RO	BP	4 - 6	16 - 24		
BLUE	US64470517BL		6 - 8	24 - 32		
			kPa	psig		
YELLOW	US64470518GI		8 - 14	1.16 - 2		
YELLOW	US64470135GI	MP	14 - 21	2.0 - 3.05		
GREY	US64470136GR	IVIP	21 - 35	3.05 - 5.1		

General link to the setting tables: **PRESS HERE** or use the QR code:





Accessories

For the pressure regulators:

- Thermal safety valve
- Univent

Slam Shut

The FE is always supplied with an incorporated slam shut valve.

The main characteristics of this device are:



Slam shut for overpressure (FE75 / FE100 only)



Compact dimensions



Double diaphragm

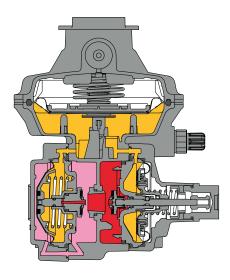


Figure 6 FE25 / FE50 with slam shut

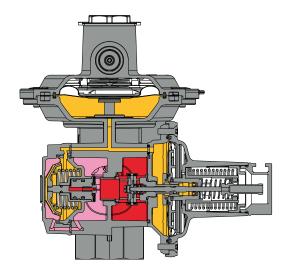


Figure 7 FE75 / FE100 with slam shut



Inlet pressure



Intermediate pressure



Outlet pressure



Slam shut types and range						
SSV Type	Model	Operation	Range	e Wh	Spring Table web link	
			kPa	psig		
FE25 / FE50	BP	OPSO	4 - 24	0.6 - 3.5	<u>TT 1868</u>	
FE25 / FE50	BP	UPSO	UPSO integrated in excess flow function			
FE25 / FE50	MP	OPSO	30 - 80	4.1 - 11.6	<u>TT 1868</u>	
FE25 / FE50	MP	UPSO	UP	SO integrated in e	excess flow function	
			kPa	" W.C.		
FE75 / FE100	BP	OPSO	3.75 - 23.1	15 - 92.8	<u>TT 1869</u>	
FE75 / FE100	BP	UPSO	0.6 - 25	2.4 - 99.7	<u>TT 1869</u>	
FE75 / FE100	MP	OPSO	21 - 55.2	83.1 - 221.7	<u>TT 1869</u>	
FE75 / FE100	MP	UPSO	0.6 - 25	2.4 - 99.7	<u>TT 1869</u>	

Table 10 Slam shut types and range

Range of the springs for FE25 / FE50 OPSO					
Color	Code Model Range			nge	
			kPa	" W.C.	
YELLOW	US64470501GI		4 - 5	16 - 20	
YELLOW	US64470502GI		5 - 8.7	20 - 35	
GREEN	US64470503VE	BP	8.7 - 10.9	35 - 44	
RED	US64470504RO		10.9 - 16.2	44 - 65	
ROSE	US64470505RS		16.2 - 24.1	65 - 97	
		kPa	psig		
GREY	US64470169GR	MP	29.6 - 50	4.3 - 7.2	
WHITE	US64470168BI	IVIE	50 - 80	7.2 – 11.6	

Table 11 Settings table for FE25 / FE50 OPSO

Range of the springs for FE75 / FE100 OPSO					
Color	Code Model			nge	
			kPa	" W.C.	
GREEN	US64470506VE		3.7 - 5.4	15 - 21.9	
LIGHT BLUE	USU64470113AZ		5.4 - 10	21.9 - 40.1	
		BP	kPa	psig	
BROWN	US64470507MA		10 - 16	1.45 - 2.3	
YELLOW	US64470508GI		16 - 23.1	2.3 - 3.3	
YELLOW	US64470116GI	MP	21 - 33	3.05 - 4.8	
FUCHSIA	US64470416RS	IVIP	33 - 55.2	4.79 - 8	

Table 12 Settings table for FE75 / FE100 OPSO



Range of the springs for FE75 / FE100 UPSO								
Color	Code Model Range							
			kPa	" W.C.				
ORANGE	US64470509AR		0.6 - 1.5	2.4 - 6				
GREEN	US64470510VE		1.5 - 4	6 - 16				
WHITE	US64470511BI	BP	4 - 8	16 - 32				
		DP	kPa	psig				
RED	US64470512RO		8 - 14	1.16 - 2				
YELLOW	US64470038GI		14 - 25	2 - 3.6				

Table 13 Settings table for FE75 / FE100 UPSO

IRV

The FE has an integrated token relief valve that discharges a small volume of gas into the atmosphere when the regulator exceeds the relief valve set point. It prevents slam shut valve (with manual reset) to trigger in case of abnormal non-hazardous overpressure conditions. The most common ones are:

- thermal expansion due to the day/night temperature variation
- quick on/off appliance
- small internal leakage

There are two IRV's types available: token relief valve, with discharge rate that depends on the regulator set point, and calibrated relief valve, with a fixed discharge rate. The IRV can be activated or deactivated in the field, if necessary.

Features	Non-relieving (NR) version	Vent-limited calibrated IRV version	Vent-limited token IRV version				
IRV	Deactivated	Active	Active				
Max relief during diaphragm failure	max 2.5 SCFH	max 2.5 SCFH	max 2.5 SCFH				
Thermal safety valve	YES	Optional	Optional				
Possible application Suitable for indoor application. Not suitable for outdoor application ¹		Suitable for outdoor installation with potential ignition sources 1 foot away ¹	Suitable for any outdoor installation with potential ignition souces 3 feet away or more				
(¹) The installation is permitted only if allowed by the local codes, standards and regulations in force.							

Table 14 Relief versions



Relief valve adjustment springs								
Spring item code	Spring color	Spring range						
Opring Item code	opining color	M	in.	Max.				
		kPa	" W.C.	kPa	" W.C.			
US64470027VER	Green	2 + Pd	8 + Pd	5 + Pd	20 + Pd			
US64470029GIA	Yellow	1.1 + Pd	4.4 + Pd	2 + Pd	8 + Pd			
US64470213BL	Blue	0.8 + Pd	3.2 + Pd	1.1 + Pd	4.4 + Pd			
US64470027VER	Green	15 + Pd	60.2 + Pd	25 + Pd	100.3 + Pd			
US64470029GIA	Yellow	Max 14.9 + Pd	Max 59.8 + Pd	Max 14.9 + Pd	Max 59.8 + Pd			

Table 15 Relief valve adjustment springs table

Nylon filter

The FE is equipped with a nylon mesh 100 microns | 140 mesh (FE standard version) and 300 microns | 50 mesh (FE arctic version) to prevent foreign particles, such as weld slag or PE shavings, to get stuck between the orifice and seat/disk thus preventing lockup for new installations.

The purpose of the nylon mesh is to provide protection to the FE and its accessories thus protecting the customers downstream piping system.



Figure 8 Nylon filter



Double diaphragm

The FE second stage and the FE slam shut have two diaphragms each: an operating and a safety ones. In case of rupture of the operating diaphragm, the safety diaphragm ensures the operation of the regulator.

In addition, there is a bleed hole (internal vent limiter) in the diaphragm allowing the leak of a minimal amount of gas (< 1 scfh for FE25/FE50, and < 2.5 scfh FE75/FE100) into the atmosphere and making the failure detectable.

Double diaphragm option is available only for maximum regulator's downstream pressure up to 2 psig.

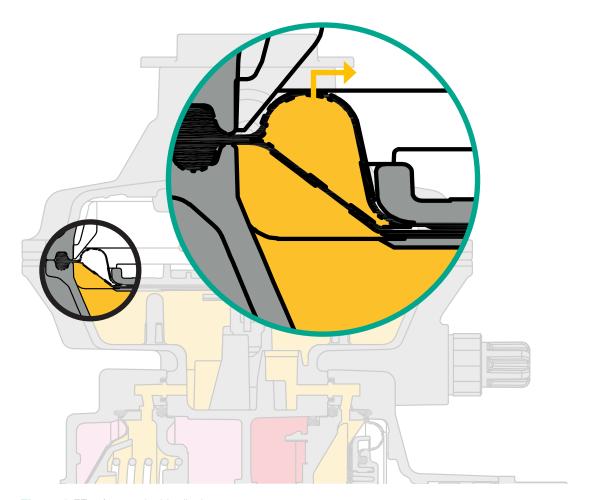


Figure 9 FE 2nd stage double diaphragms



Vent-limited version

The vent-limited version is designed according to CSA 6.22 / ANSI Z21.80 and can be used for outdoor applications or indoor application, when connected to a vent tubing. In this case IRV (token relief valve or calibrated relief valve) is activated. The installation is permitted only if allowed by local codes, standards and regulations in force.

The vent limited version is designed to limit the amount of gas released due to diaphragm failure. In this configuration, the FE's 2nd stage and slam shut are equipped with a double diaphragm. Should the operating diaphragm fail, the safety diaphragm takes over activating a limited vent (<1 scfh for FE25 / FE50, and <2.5 scfh FE75 / FE100). When an additional safety level is required, an optional thermal safety valve is installed on the FE's inlet.

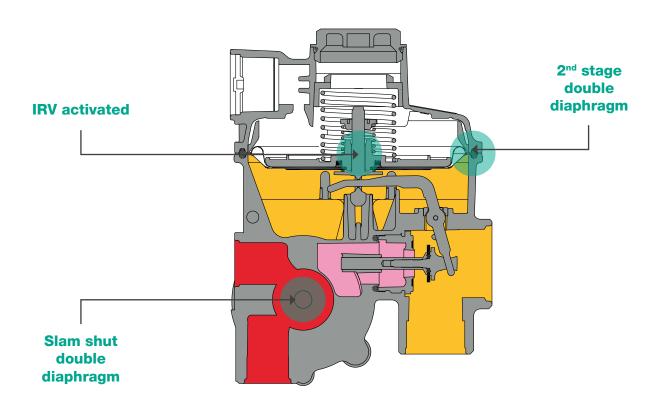


Figure 10 FE vent-limited version



Non-relieving (NR) verison

The NR version is designed according to CSA 6.22 / ANSI Z21.80 and can be used for indoor applications, when a vent tubing is not operationally or regulatory required. In this case IRV is permanently deactivated. The installation is permitted only if allowed by the local codes, standards and regulations in force.

The NR version is designed to limit the amount of gas released due to diaphragm failure. In this configuration, the FE's 2nd stage and slam shut are equipped with a double diaphragm and a thermal safety valve is installed on the FE's inlet. Should the operating diaphragm fail, the safety diaphragm takes over activating a limited vent (< 1 scfh for FE25/FE50, and < 2.5 scfh FE75/FE100).

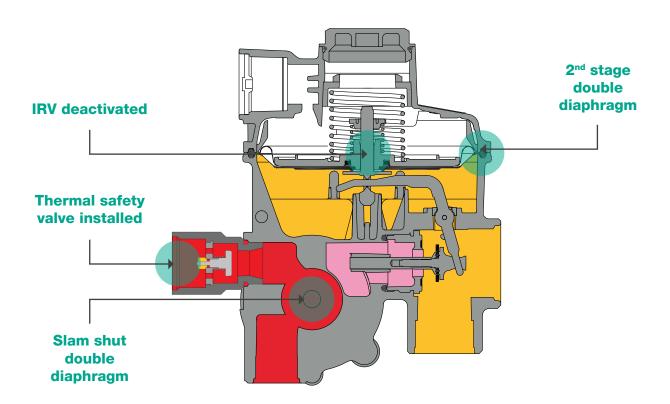


Figure 11 FE NR version



Thermal safety valve

The thermal valve is a safety device that shuts the inlet gas flow in case of excessive temperature, e.g., due to fire.

The valve is rated to stop the gas flow for up to 90 minutes at $1472 \, ^{\circ}\text{F} \mid 800 \, ^{\circ}\text{C}$. The valve mechanism is composed of a seat, plug, spring, and a block of thermoplastic material. The block holds the

valve open under normal conditions, and when the temperature exceeds a certain limit, it softens releasing the plug and stopping the flow. There are two sizes depending on the flow rate and pressure drop: TVD1 (typically for FE25/FE50) and TVD2 (typically for FE75/FE100).

Temperature limits: 320 °F +/- 18 °F | 160°C +/- 10 °C

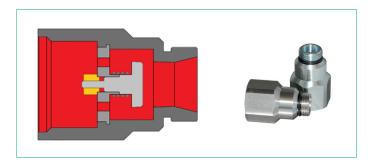


Figure 12 Thermal safety valve

Fire protection valve TVD1 (FE25 / FE50) pressure drop													
			Flow rate										
Inlet pr	ressure	1 m 35 s	n ³ /h scfh	5 m 175	า ³ /h scfh		m³/h scfh	' ' ' '	m³/h scfh		m³/h scfh		m ³ /h) scfh
kPa	psig	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.
6.9	1	0	0	0.3	1.2	1	4	3.73	15	5.5	22	-	-
13.8	2	0	0	0.25	1	0.87	3.5	3.48	14	5	20	-	-
34.5	5	0	0	0.2	0.8	0.75	3	3.23	13	4.5	18	12	50
69	10	0	0	0.15	0.6	0.62	2.5	2.49	10	3.5	14	8	32
≥ 276	≥ 40	0	0	0.1	0.4	0.5	2	1.49	6	2	8	4	16

Table 16 Fire protection valve TVD1 (FE25 / FE50) pressure drop table

Fire protection valve TVD2 (FE75 / FE100) pressure drop													
			Flow rate										
Inlet pr	essure	5 m 175	า ³ /h scfh	"""	m³/h scfh		n³/h scfh	50 r 1750	n³/h) scfh		m³/h) scfh		m³/h) scfh
kPa	psig	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.	kPa	" W.C.
6.9	1	0.2	0.8	0.3	1.2	0.5	2	1.74	7	3.5	14	-	-
13.8	2	0.1	0.4	0.15	0.6	0.45	1.8	1.49	6	3	12	-	26
34.5	5	0.05	0.2	0.25	1	0.37	1.5	1.24	5	2.5	10	5	20
69	10	0	0	0.15	0.6	0.2	0.8	1	4	1.2	4.8	4	17
≥ 276	≥ 40	0	0	0.1	0.4	0.15	0.6	0.5	2	0.9	3.6	1	6

Table 17 Fire protection valve TVD2 (FE75 / FE100) pressure drop table



Univent

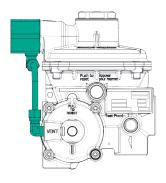
The univent version offers a single vent connection point for 2nd stage and slam-shut.

FE can be converted easily to the univent version using a retrofitting kit.

Since the FE is a vent limited regulator, the size of the vent pipe can be as small as OD 1/4".

Additionally, there is no impact on performance with 3/8" vent pipes up to 40 ft long and with 1/2" vent pipes up to 100 ft long.





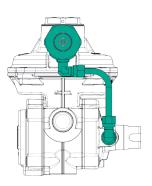


Figure 13 FE univent version



Univent installation video: Click here

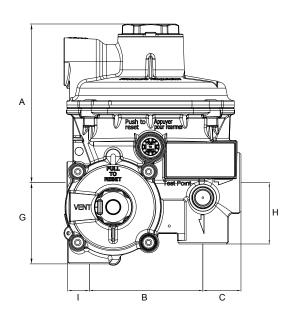
Underground version

FE underground version offers a single vent connection point for 2nd and slam-shut, to be connected to the snorkel. Stainless steel fittings and regulator's surface treatment ensure its operation in harsh and humid environments.



Weights and Dimensions

FE25 / FE50



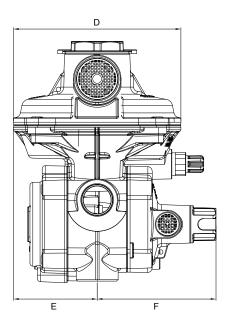


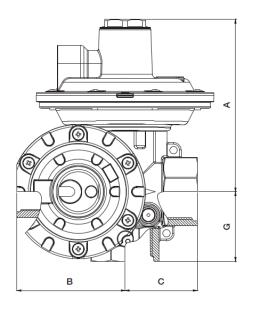
Figure 14 FE25 / FE50 Dimensions

Weights and Dimensions (for other connections, please contact your closest Pietro Fiorentini representative)								
	[mm]	inches						
A	106.5	4.18"						
В	76.2	3"						
С	25.5	1.0"						
D	Ø112	Ø4.4"						
Е	56	2.2"						
F	79	3.1"						
G	54.3	2.13"						
Н	41	1.61"						
I	14.7	0.58"						
Weight	Kg	pounds						
Aluminum regulator (without fittings)	1.0	2.20						
Weight increase with fittings	from 0.13 to 0.68	from 0.3 to 1.5						

Table 18 Weights and dimensions



FE75 / FE100



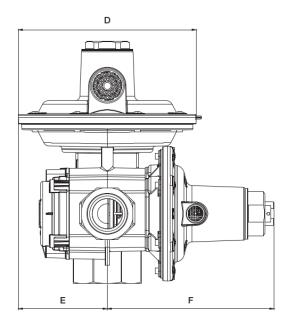


Figure 15 FE75 / FE100 Dimensions

Weights and Dimensions (for other connections, please contact your closest Pietro Fiorentini representative)								
	[mm]	inches						
Α	147	5.8"						
В	92	3.6"						
С	62	2.4"						
D	Ø152	Ø6"						
E	76	3"						
F	143	5.6"						
G	60	2.4"						
Weight	Kg	pounds						
Aluminum regulator (without fittings)	2.2	4.9						

Table 19 Weights and dimensions



Customer Centricity

Customer centricity is a way of running your business — implementing a perfect customer experience at each stage of the pipeline. Pietro Fiorentini is one of the main Italian international company with high focus on product and service quality.

The main strategy is to create a stable, long-term relationship, putting the customer's needs first. Lean management and customer centricity are used to improve and maintain the highest level of customer experience.



Support

Pietro Fiorentini's top priority is to provide support to the client in all phases of project development, during installation, start up and operation. Pietro Fiorentini has developed a highly standardized Intervention-Management-System (IMS), which helps to facilitate the entire process and putting the customer at the forefront of every decision in our process while manufacturing or developing a product to help improve the product and service. With our IMS business model many services are available remotely, avoiding long waiting times, improving service, and avoiding unnecessary expenses.



Training

Pietro Fiorentini offers training services available for both experienced operators and new customers. The training is offered for all levels of our customers which can include one or all of the following: sizing of equipment, application, installation, operation, maintenance and is prepared according to the level of use and the customer's need.



Customer Relation Management (CRM)

The service and care of our customers are one of the main missions and vision of Pietro Fiorentini. For this reason, Pietro Fiorentini has enhanced the customer relation management system. This enables us to track every opportunity and request from our customers into one single information point and allows us to coordinate information allowing us to give the customer improved service.



Here at Pietro Fiorentini, we believe in a world capable of improvement through technology and solutions that can shape a more sustainable future. That is why respect for people, society and the environment form the cornerstones of our strategy.



Our commitment to the world of tomorrow

While in the past we limited ourselves to providing products, systems and services for the oil & gas sector, today we want to broaden our horizons and create technologies and solutions for a digital and sustainable world. We have a particular focus on renewable energy projects to help make the most of our planet's resources and create a future in which the younger generations can grow and prosper.

The time has come to understand how and why we operate now.







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The data is not binding. We reserve the right to make changes without prior notice.

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