

North America

Measurement and
pressure control
portfolio





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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



Pietro Fiorentini Group

Pietro Fiorentini is now one of the largest industrial companies in the North East of Italy, with its main headquarters at Arcugnano, near Vicenza. The Group has about thirty production sites and commercial offices both in Italy and abroad, employing around 2,000 people worldwide.



More than **2,000 collaborators** around the world



14 production facilities: **8** in Italy and **7** abroad



Offices in **Europe, America, Africa** and **Asia**



Services **to over 100** countries

North America plant

Pietro Fiorentini USA is the North American operation and production facility of Pietro Fiorentini Group.

Strategically based in Weirton (WV) the manufacturing area is covering 30,000 sqf on a 32 acres property suitable for further expansion. The new plant, build from scratches to incorporate the 20 years' experience of lean manufacturing of the Group, operates since 2019. While promoting diversity, gender equality and supporting the local community, Pietro Fiorentini USA is considered among the top Pietro Fiorentini Group's subsidiaries operating worldwide.



Meters applications and H₂ compatibility

| Segment | Model | H ₂ Compatibility | | Main applications | Made in USA |
|----------------------|--------------|------------------------------|------|-------------------|-------------|
| | | ≤ 20% | 100% | | |
| Industrial metering | Fiosonic | | | | |
| Residential metering | SSM-iCON 250 | | | | * |

Table 2 Meters compatibility and application

Already available

Upon request

Specific model already available

Slam-shut valves applications and H₂ compatibility

| Segment | Model | H ₂ Compatibility | | Main applications | Made in USA |
|-----------------|---------|------------------------------|------|-------------------|-------------|
| | | ≤ 20% | 100% | | |
| Transmission HP | HBC 975 | | | | |
| Transmission HP | SBC 782 | | | | |
| Distribution MP | SCN | | | | |

Table 1 Slam-shut valves compatibility and application

Already available

Upon request

Specific model already available

Pressure regulators applications and H₂ compatibility

| Segment | Model | H ₂ Compatibility | | Main applications | Made in USA |
|-----------------|---------------|------------------------------|------|-------------------|-------------|
| | | ≤ 20% | 100% | | |
| Transmission HP | Aperflux 101 | ✓ | ✓ | | |
| Transmission HP | Aperflux 851 | ✓ | ✓ | | |
| Transmission HP | FT 518 | ✓ | ✓ | | |
| Transmission HP | Norflux | ✓ | ✓ | | |
| Transmission HP | Reflux 819 | ✓ | ✓ | | |
| Transmission HP | Reflux 819/FO | ✓ | ✓ | | |
| Transmission HP | Staflux 187 | ✓ | ✓ | | |
| Transmission HP | Staflux Mini | ✓ | ✓ | | |
| Distribution MP | Cirval | ✓ | ✓ | | |
| Distribution MP | Dival 500 | ✓ | ✓ | | |
| Distribution MP | Dival 600 | ✓ | ✓ | | |
| Distribution MP | Norval | ✓ | ✓ | | |
| Distribution MP | Reval 182 | ✓ | ✓ | | |
| Distribution LP | FE 25/50 | ✓ | ✓ | | |
| Distribution LP | FE 75/100 | ✓ | ✓ | | |
| Distribution LP | Governors | ✓ | ✓ | | |
| Distribution LP | PF 400 | ✓ | ✓ | | |

NOTE: all optionals available with each pressure regulator (i.e. monitors, slam shut valves, silencers) have the same compatibility degree of the device they are equipped to.
 (*) planned. Currently manufactured in Italy until production line can be moved to United States.

Table 3 Pressure regulators compatibility and application

- Already available
- Upon request
- Specific model already available

Sustainability

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.

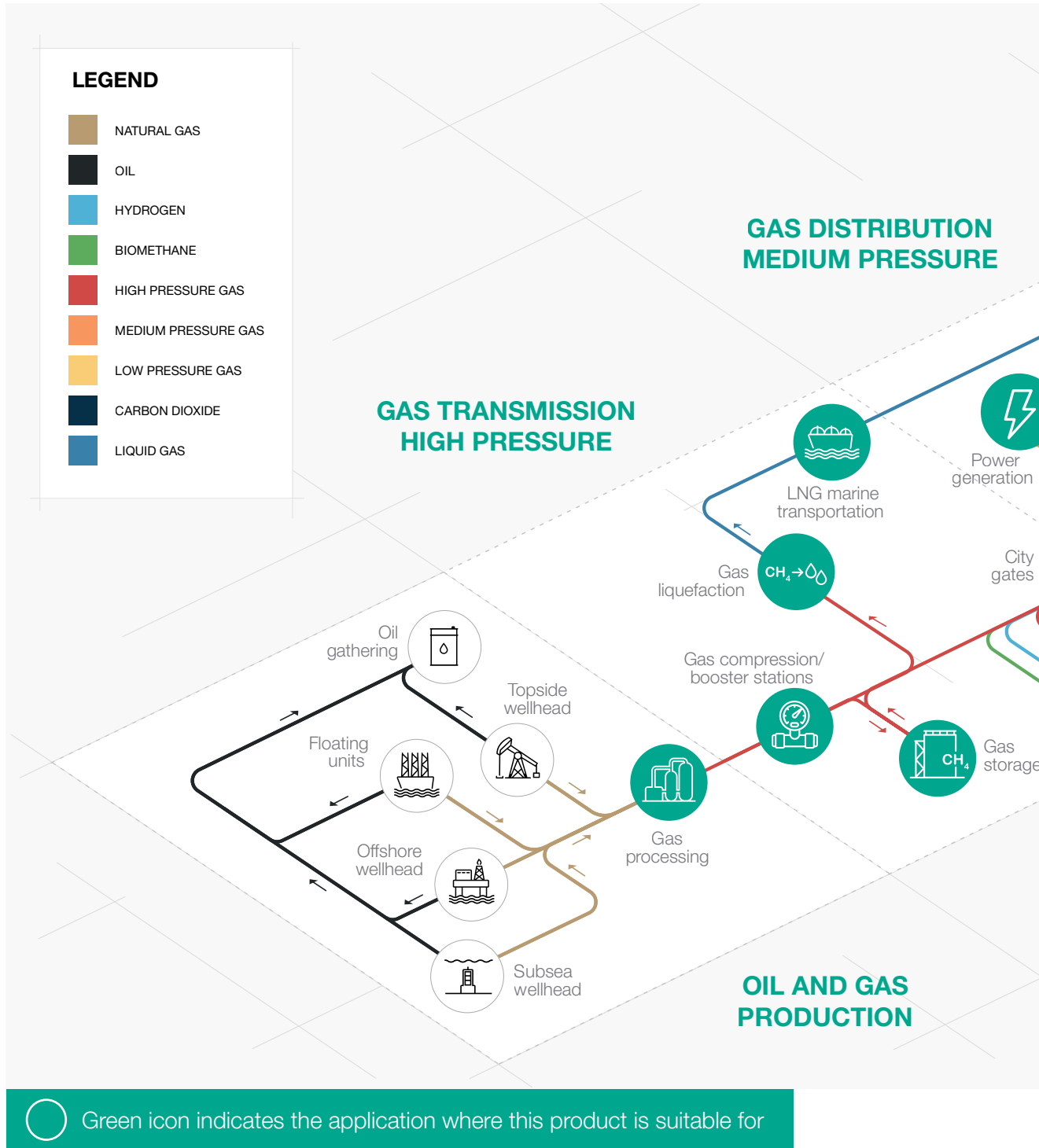
The time has come to understand how and why we operate now.



Area of Application

LEGEND

- NATURAL GAS
- OIL
- HYDROGEN
- BIOMETHANE
- HIGH PRESSURE GAS
- MEDIUM PRESSURE GAS
- LOW PRESSURE GAS
- CARBON DIOXIDE
- LIQUID GAS



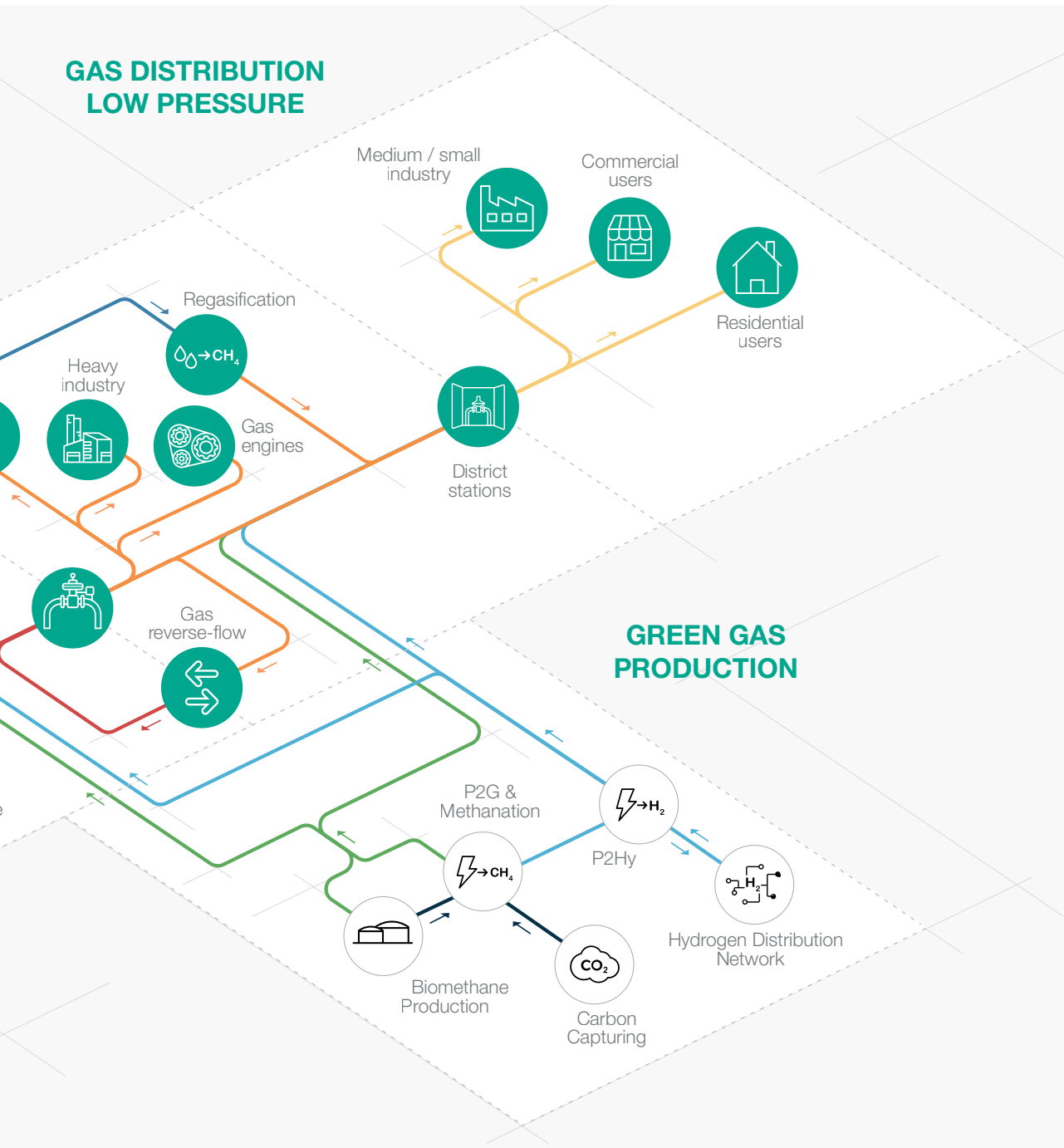


Figure 4 Area of application map

FioSonic

The **FioSonic** is the natural evolution of the Pietro Fiorentini know-how and experience in the gas industry. With its multi path-chordal ultrasonic technology the **FioSonic** provides real time diagnostics high accuracy and redundancy for custody transfer gas flow measurement. The FioSonic is **Hydrogen Ready** for NG-H2 blending.



Gas liquefaction



Heavy industries



Gas processing

Gas compression /
booster stationsMedium/small
industries

Regasification



Gas storage



District stations



Gas reverse flow



City gates

| Features | Values |
|--------------------------------|---|
| Design pressure* | up to 15.3 MPa(a) up to 2,219 psi(a) |
| Ambient temperature* | <ul style="list-style-type: none"> Ambient Temperature for Non custody Transfer: from -40 °C to +60 °C from -40 °F to +140 °F Ambient Temperature Custody Transfer (MID and OIML certified): from -25 °C to +55 °C from -13 °F to +131 °F |
| Operating (gas) temperature* | from -30 °C to +80 °C from -22 °F to +176 °F |
| Accuracy | Up to 0.5% with factory calibration Up to 0.2% with high pressure flow calibration |
| Rangeability | Up to 1:160 for non-custody transfer Up to 1:125 for custody transfer acc. to OIML R-137/MID |
| Repeatability | 0.1% |
| Ingress Protection | IP 66 / NEMA 4X |
| Applicable metrology standards | AGA-9; OIML R137-1&2 ; MID 2014/32/EU |
| Power supply and consumption | Main power: 14 - 0,710 mW max I/O option board power: 10.8 - 1,626 mW max |
| Hazardous area certification | ATEX II 1 G Ex ia IIC/IIB T4 Ga (intrinsically safe) IECEX Ex ia IIC/IIB T4 Ga (intrinsically safe) cQPSus Class 1 Div.1 Gr. ABCD T4-T1 (intrinsically safe) |
| Accessories | Transducers Extraction Tool ≥ 8" (DN200) |
| Nominal dimensions DN | From DN80 3" to DN 750 30" for four-paths meter From DN50 2" to DN 750 30" for three-paths meter Above DN750 30" on request |
| Connections* | Class 150/300/600/900 RF / RTJ according to ASME B 16.5 or PN 16/25/40 according to EN 1092-1 |

(* Note: 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 |
|----------------------|--|
| Body | Forged steel ASTM A350 LF2 Cl.1 Other material on request |
| Electronic enclosure | Epoxy painted low copper aluminum alloy Stainless Steel 316, on request |
| Transducers | Titanium ASTM B348 Ti GR.2 |
| Sealing ring | FKM or other material according to process conditions |

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

Table 2 Materials

The **FioSonic** is designed to meet AGA report N.9, ISO 17089-1, OIML R137-1&2 requirements.



AGA9



ISO17089-1



ANSI B109.0
(draft)

The product is certified according to European Directives 2014/68/EU (PED) as well as 2014/32/EU (MID), OIML R137 -1&2, ATEX, IECEx, CSA, UL (cQPSus).



OIML
R137-1&2



PED-CE



MID



IECEx



cQPSus



ATEX

FioSonic competitive advantages



Titanium transducers for long durability



BCW processing for reduction of noise interferences



Low voltage sensors



Easy maintenance



No moving parts



30% Hydrogen blending compatible. Higher blending available on request



1:160 High rangeability



Metallic wetted parts



Bi-directional Flow measurements

SSM-iCON 250

The **SSM-iCON 250 smart meter** by Pietro Fiorentini incorporates the latest ultrasonic measurement technology to the flexibility of the interchangeable communication module. Equipped with the state of the art monitoring sensors it can stop the gas flow for temperature (fire), pressure or seismic events as well as from remote, to enhance customers and network safety. Suitable for use with natural gas, biomethane and and hydrogen blends (up to 20%), this device is used for residential applications on low pressure gas distribution networks.



Residential users

| Features | Values |
|---------------------------------------|---|
| Capacity | 7 m ³ /h at 0.125 kPa differential pressure 250 cfh at 1/2" w.c. differential pressure |
| Measurement Range (Qmin - Qmax) | 0.007 to 7.1 m ³ /h 0.25 to 250 cfh |
| Minimum Flow rate (Qstart) | 0.007 m ³ /h 0.25 cfh |
| Maximum Operating Pressure* | up to 34.5 kPa up to 5 psig |
| Ambient temperature* | from -35°C to 55°C from -30°F to 130°F |
| Gas temperature range* | from -35°C to 55°C from -30°F to 130°F |
| Accuracy | Class 1 (according to ANSI B109.0) |
| Ingress protection | Compliant to IP67 and NEMA 4X |
| Power supplies and operating lifetime | Lithium batteries 20 years for metrological battery (non-replaceable) Up to 20 years for communication battery (replaceable) |
| Remote communication interface | Both NB-IoT and Cat-M1 in the same module |
| Hazardous area certification | Class 1 Division 1 Group D as per ANSI/ISA 121201 |
| Gas volume compensation | Temperature compensated (TC) and non temperature compensated (NTC) options available |
| Nominal dimensions | Connection distance – 6" (152,4mm) |
| Connections | 10LT, 20LT, Sprague (other on request) |

(* Note: 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 |
|----------------------|--|
| Body | Die cast aluminum ANSI/AA 384.0 with epoxy finishing for the meter case |
| Electronic enclosure | Plastic polycarbonate for the electronics case suitable for outdoor installation |

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

Table 2 Materials

The SSM iCON 250 is designed to meet ANSI B109.1, AGA Ultrasonic Gas Meters Engineering Technical Note as well as key features compliance of OILM R137, ANSI B109.0 (draft), PS-G-06 and EN14236.



ANSI B109.1



OILM R137



ANSI B109.0
(draft)



EN 14236*



AGA
Engineering
Technical Note



PS-G-06

*Limited to "5.7 Contaminants in the gas stream".

The product is certified cULus Class1 Div1 for Hazardous area installation.



cULus
Class1 Div1

SSM iCON 250 competitive advantages



Emergency gas shut off for
fire event



Emergency gas shut off for
earthquake



NB-IoT and Cat-M1 multi standard
IoT modem



Advanced diagnostic with pressure
and temperature monitoring sensors



Simple HMI with LCD display.
Single button operation



20 years metrological battery



20 years communication battery life
with NB-IoT module (both 4G and
5G networks)



Open protocol and interchangeable
communication module



Suitable for outdoor installations



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

HBC 975

The **HBC 975** is a safety device, also called slam shut valve, suitable to quickly interrupt the gas flow when the pressure reaches a calibration set value. This device is mainly used in high-pressure transmission systems and in medium pressure gas distribution networks.



Gas compression /
booster stations



Gas reverse-flow



Power generation



Gas liquefaction



LNG marine
transportation



Heavy industry



Gas storage



Regasification



District stations



City gates

| Features | Values |
|-------------------------------------|--|
| Design pressure* | up to 10.2 MPa up to 1479.4 psi |
| Ambient temperature* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Inlet gas temperature range* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Available Accessories | Limit switch, remote tripping |
| Maximum inlet pressure | 10 MPa 1450 psi |
| Accuracy class AG | up to 2.5 for OPSO (depending on working conditions) up to 2.5 for UPSO (depending on working conditions) |
| Over pressure setting range (OPSO) | from 0.02 MPa to 9 MPa from 2.9 psi to 1305 psi |
| Under pressure setting range (UPSO) | from 0.02 MPa to 9 MPa from 2.9 psi to 1305 psi |
| Nominal dimensions DN | DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10"; DN 300 12" |
| Connections* | ANSI 150, 300 and 600 according to ASME B16.5 and PN 16 according EN 1092 |
| End to end dimensions | according to EN 334, EN 14382 |

(* Note: 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 |
|----------------------|---|
| Body | Cast steel ASTM A 352 LCC for classes ANSI 300 and 600; Cast steel ASTM A 216 WCB for classes ANSI 150 and PN 16 |
| Stem | AISI 416 stainless steel |
| Plug | ASTM A 350 LF2 Nickel coated |
| Valve seat | Carbon steel + vulcanized rubber |
| Sealing ring | Nitrile rubber |
| Compression fittings | Zinc-plated carbon steel according to DIN 2353; Stainless steel on request |

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

Table 2 Materials

The **HBC 975** slam shut valve is designed according to the European standard EN 14382. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.













EN 14382



PED-CE

HBC 975 competitive advantages

-  **OPSO** Over Pressure Shut-Off
-  **UPSO** Under Pressure Shut-Off
-  Internal by-pass
-  Push button for tripping test
-  Top Entry
-  Compact dimensions
-  Easy maintenance
-  Remote tripping option
-  Limit switch option
-  Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request

SBC 782

The **SBC 782** is a safety device, also called slam shut valve, suitable to quickly interrupt the gas flow when the pressure reaches a calibration set value. This device is mainly used in high-pressure transmission systems and in medium pressure gas distribution networks.



Gas compression / booster stations



Gas liquefaction



Gas storage



City gates



Gas reverse-flow



LNG marine transportation



Regasification



Power generation



Heavy industry



District stations



Medium/small industry



Commercial users

| Features | Values |
|-------------------------------------|--|
| Design pressure* | up to 10.2 MPa up to 1,479 psig |
| Ambient temperature* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Inlet gas temperature range* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Available Accessories | Limit switch, remote tripping |
| Accuracy class AG | up to 2.5 for OPSO (depending on working conditions) up to 2.5 for UPSO (depending on working conditions) |
| Over pressure setting range (OPSO) | from 2 kPa to 9 MPa from 8" w.c. to 1,305 psig |
| Under pressure setting range (UPSO) | from 1 kPa to 9 MPa from 4" w.c. to 1,305 psig |
| Nominal dimensions DN | DN 25 1"; DN 50 2"; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10" |
| Connections* | Class 150/300/600 RF / RTJ according to ASME B 16.5 or PN 16/25/40 according to EN 1092-1 |
| End to end dimensions | according to EN 334, EN 14382 |

(* Note: 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 |
|----------------------|--|
| Body | Cast steel ASTM A 352 LCC for class ANSI 600 and 300 Cast steel ASTM A 216 WCB for class ANSI 150 and PN 16 |
| Stem | AISI 416 stainless steel |
| Plug | Stainless steel |
| Valve seat | Stainless steel |
| Sealing ring | Nitrile rubber |
| Compression fittings | According to DIN 2353 in zinc-plated carbon steel |

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

Table 2 Materials

The **SBC 782** slam shut valve is designed according to the European standard EN 14382. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 14382



PED-CE

SBC 782 competitive advantages



Over Pressure Shut-Off



Under Pressure Shut-Off



Internal by-pass



Push button for tripping test



Top Entry



Compact dimensions



Easy maintenance



Remote tripping option



Limit switch option



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

SCN

The **SCN** is a safety device, also called slam shut valve, suitable to quickly interrupt the gas flow when the pressure reaches a calibration set value. This device is mainly used in medium and low pressure gas distribution networks.



LNG marine transportation



Power generation



District stations



Gas reverse-flow



Heavy industry



Medium/small industry



Regasification



Gas engines



Commercial users

| Features | Values |
|-------------------------------------|---|
| Design pressure* | up to 1.6 MPa up to 232 psig |
| Ambient temperature* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Inlet gas temperature range* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Available Accessories | Limit switch, remote tripping |
| Accuracy class AG | up to 2.5 for OPSO (depending on working conditions) up to 5 for UPSO (depending on working conditions) |
| Over pressure setting range (OPSO) | from 2.5 kPa to 0.5 MPa from 10" w.c. to 72 psig |
| Under pressure setting range (UPSO) | from 1 KPa to 0.3 MPa from 4" w.c. to 44 psig |
| Nominal dimensions DN | DN 25 1"; DN 40 1-1/2"; DN 50 2"; DN 65 2-1/2"; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; |
| Connections* | Class 150 RF according to ASME B16.5 and PN16 according to ISO 7005 |
| End to end dimensions | EN 14382 |

(* Note: 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 |
|----------------------|---|
| Body | Cast steel ASTM A 216 WCB (all DN). Spheroidal ductile iron GS 400 – 18 ISO 1083 DN 150 (6") included. |
| Stem guide | AISI 416 |
| Plug | AISI 416 + TN028 |
| Valve seat | AISI 420 |
| Sealing ring | Nitrile rubber |
| Compression fittings | According to DIN 2353 in zinc-plated carbon steel. Stainless steel on request |

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

Table 2 Materials

The **SCN** slam shut valve is designed according to the European standard EN 14382. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 14382



PED-CE

SCN competitive advantages



Over Pressure Shut-Off



Under Pressure Shut-Off



Internal by-pass



Push button for tripping test



Top Entry



Compact dimensions



Easy maintenance



Remote tripping option



Limit switch option



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

Aperflux 101

The **Aperflux 101** is one of the **pilot-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for use with previously filtered non-corrosive gases, and it is mainly used for high-pressure transmission systems and for medium pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Open**. The Aperflux 101 is **Hydrogen Ready** for NG-H2 blending.



Gas liquefaction



Gas storage



Heavy industries



Gas compression / booster stations



City gates



Regasification

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 8.5 MPa up to 1,232 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 0.18 MPa to 8.5 MPa from 26 psig to 1,232 psig |
| Range of downstream pressure (Wd ¹) | from 0.08 MPa to 7.4 MPa from 11,6 psig to 1,073 psig |
| Available accessories | none |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.1 MPa - recommended > 0.2 MPa 14.5 psig - recommended > 29 psig |
| Accuracy class (AC ¹) | up to 1 (depending on working conditions) |
| Lock-up pressure class (SG ¹) | up to 2.5 (depending on working conditions) |
| Nominal size (DN ^{1,2}) | DN 50 2"; DN 80 3"; DN 100 4"; |
| Connections | Class 300/600 RF / RTJ according to ANSI B 16.5 |

(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

Materials and Approvals

| Part | Material |
|----------------------|---|
| Body | Cast steel ASTM A352 LCC for rating 300 and 600 |
| Cover | Rolled or forged carbon steel A350 LF2 |
| Seat | Stainless steel |
| Diaphragm | Vulcanized rubber |
| Sealing ring | Nitrile rubber |
| Compression fittings | According to DIN 2353 in zinc-plated carbon steel |

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

Table 2 Materials

The **Aperflux 101** regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Open) according to EN 334. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

Aperflux 101 competitive advantages



Compact and simple design



Easy maintenance



1:500 High turn-down ratio



Balanced type



Low noise



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



Top Entry

Aperflux 851

The **Aperflux 851** is one of the **pilot-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for use with previously filtered non-corrosive gases, and it is mainly used for high-pressure transmission systems and for medium pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Open**. The Aperflux 851 is **Hydrogen Ready** for NG-H2 blending.



Gas liquefaction



City gates



Gas storage



Gas compression / booster stations



Heavy industries



Regasification

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 10.2 MPa up to 1,479 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 0.13 MPa to 8.5 MPa from 18.9 psig to 1,232 psig |
| Range of downstream pressure (Wd ¹) | from 0.08 MPa to 7.4 MPa from 11.6 psig to 1073 psig |
| Available accessories | DB/851 Silencer, SB/82 Slam-shut, HB/97 Slam shut, PM/819 Monitor, opening indicator |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.05 MPa - recommended 0.2 MPa 7.25 psig - recommended 29 psig |
| Accuracy class (AC ¹) | up to 2.5 (depending on working conditions) |
| Lock-up pressure class (SG ¹) | up to 10 (depending on working conditions) |
| Nominal size (DN ^{1,2}) | DN 25 1"; DN 50 2"; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10" |
| Connections | Class 150/300/600 RF / RTJ according to ASME B 16.5 or PN 16/25/40 according to ISO 7005 |

(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

Materials and Approvals

| Part | Material |
|----------------------|--|
| Body | Cast steel ASTM A352 LCC for classes 300 and 600 ASTM A216 WCB for classes 150 and PN16 |
| Cover | Rolled or forged carbon steel |
| Seat | Stainless steel for DN ≤3" Carbon Steel with seal edge in stainless steel for size ≥ 4" |
| Diaphragm | Vulcanized rubber |
| Sealing ring | Nitril rubber |
| Compression fittings | Zinc-plated carbon steel |

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

Table 2 Materials

The **Aperflux 851** regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Open) according to EN 334. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

Aperflux 851 competitive advantages



Balanced type



Top Entry



Operates with low differential pressure



Easy maintenance



High accuracy



Low noise



High turn-down ratio



Built-in accessories



Built-in pilot filter



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

FT 518

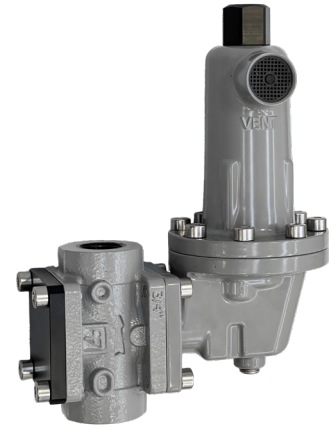
FT 518 is a **lever-operated** regulator controlled by a diaphragm and setting spring which controls the valve. It is mainly used for farm tap applications, high-pressure transmission systems and for medium pressure natural gas distribution networks with previously filtered non-corrosive gases. According to the European Standard, it is classified as **Fail Open**.



Medium / small industries



District stations



| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 6.94 MPa up to 1000 psig |
| Ambient temperature* (TS ¹) | from -40 °C to +60 °C from -40 °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 0.14 to 6.94 MPa from 20 to 1000 psig |
| Range of downstream pressure (Wd ¹) | from 0.034 to 3.4 MPa from 5 to 500 psig |
| Available accessories | Token IRV, built-in strainer, incorporated monitor, incorporated slam-shut |
| Minimum operating differential pressure (Δp _{min} ¹) | 49 kPa 7 psig |
| Accuracy class (AC ¹) | up to 20 (depending on working conditions) |
| Lock-up pressure class (SG ¹) | up to 20 (depending on working conditions) |
| Nominal size (DN ^{1,2}) | DN 20 3/4"; DN 25 1"; DN 50 2" |
| Orifice | 3/32"; 1/8"; 3/16"; 1/4"; 3/8"; 1/2" |
| Connections | threaded NPT, flanged or SW (available soon) |

(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

Materials and Approvals

| Part | Material |
|--------------|---|
| Body | Ductile iron GS400-18 equivalent to ASTM 536 60-40-18 |
| Cover | Die cast aluminum |
| Valve | Nitrile rubber / High performance compound |
| Seat | Brass |
| Diaphragm | Nitrile rubber |
| Sealing ring | Nitrile rubber |
| Stem | Stainless steel |

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

Table 2 Materials

The **FT 518** regulator, is designed according to the ANSI B 109.4 standard where applicable. The regulator reacts in opening (Fail Open) according to EN 334 classification. Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.



ANSI B109.4

FT 518 competitive advantages



Compact and simple design



Top entry



Operates with high differential pressure



Built-in accessories



Built-in filter



Easy maintenance



Token IRV



Biomethane compatible and available with specific versions for full Hydrogen or blending

Norflux

The **Norflux** is a **direct-operated** regulator controlled by a diaphragm and setting spring which controls the valve. It is mainly used for high-pressure transmission systems and for medium pressure natural gas distribution networks with previously filtered non-corrosive gases. According to the European Standard, it is classified as **Fail Open**. The Norflux is **Hydrogen Ready** for NG-H2 blending.



City gates



District stations

| Features | Values |
|---|---|
| Design pressure* (PS ¹ / DP ²) | up to 10.0 MPa up to 1450 psig |
| Ambient temperature* (TS ¹) | from -40 °C to +60 °C from -40 °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 0.14 to 10 MPa from 20 to 1450 psig |
| Range of downstream pressure (Wd ¹) | from 0.07 to 0.45 MPa from 10 to 65 psig |
| Available accessories | incorporated slam-shut |
| Minimum operating differential pressure (Δp _{min} ¹) | 48 kPa 7 psig |
| Accuracy class (AC ¹) | up to 10 (depending on working conditions) |
| Lock-up pressure class (SG ¹) | up to 10 (depending on working conditions) |
| Nominal size (DN ^{1,2}) | DN 50 2" |
| Orifice Sizes | 2" |
| Connections | Class 300/600 RF / RTJ according to ASME B 16.5 |

(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

Materials and Approvals

| Part | Material |
|----------------------|--------------------------|
| Body | Cast steel ASTM A352 LCC |
| Cover | ASTM A 350 LF2 steel |
| Seat | Stainless steel |
| Diaphragm | Vulcanized rubber |
| Sealing ring | Nitrile rubber |
| Compression fittings | Zinc-plated carbon steel |

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

Table 2 Materials

The **Norflux** regulator is designed according to European standard EN 334. The regulator reacts in opening (Fail Open) according to EN 334. Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.



EN 334

Norflux competitive advantages



Compact and simple design



Built-in accessories



Operates with high differential pressure



Easy maintenance



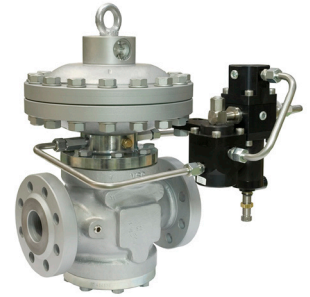
Spring loaded regulator for high pressure













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

Reflux 819

The **Reflux 819** is one of the **pilot-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for use with previously filtered non-corrosive gases, and it is mainly used for high-pressure transmission systems, power plants and for medium pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Close**. The Reflux 819 is **Hydrogen Ready** for NG-H2 blending.



-  Gas liquefaction
-  City gates
-  Power generation
-  Gas compression / booster stations
-  Heavy industries
-  LNG marine
-  Gas storage
-  Regasification
-  Gas reverse-flow
-  Gas engines

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 10.2 MPa up to 1,479 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 0.05 MPa to 10.0 MPa from 7.25 psig to 1,450 psig |
| Range of downstream pressure (Wd ¹) | from 0.03 MPa to 7.4 MPa from 4.35 psig to 1,073 psig |
| Available accessories | DB/819 Silencer, LDB/171 Silencer, PM/819 Monitor, SB/82 Slam shut, HB/97 Slam shut |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.05 MPa 7.25 psig |
| Accuracy class (AC ¹) | up to 1 |
| Lock-up pressure class (SG ¹) | up to 2.5 |
| Nominal size (DN ^{1,2}) | DN 25 1"; DN 50 2"; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10"; DN 300 12" |
| Connections | Class 150, 300, 600 RF or RTJ according to ASME B16.5 and PN16 according to ISO 7005 |

(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

Materials and Approvals

| Part | Material |
|----------------------|--|
| Body | ASTM A 352 LCC cast steel for classes ANSI 600 and 300; ASTM A 216 WCB cast steel for classes ANSI 150 and PN 16/40 |
| Heads | ASTM A 350 LF2 steel |
| Stem | AISI 416 stainless steel |
| Plug | ASTM A 350 LF2 nickel-plated steel |
| Seat | Vulcanized Nitrile Rubber on metal support |
| Diaphragm | Rubberised Canvas (pre-formed by hot-pressing process) |
| O-rings | Nitrile Rubber |
| Compression fittings | Made of zinc-plated steel according to DIN 2353; on request, stainless steel |

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

Table 2 Materials

The **Reflux 819** regulator is designed according to the European standard EN 334. The regulator reacts in closing (Fail Close) according to EN 334. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

Reflux 819 competitive advantages



Compact and simple design



Top Entry



High accuracy



Easy maintenance



1:1000 High turn-down ratio



Built-in accessories



Fail Close plug and seat regulator



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



Built-in pilot filter



Balanced type

Reflux 819/FO

The **Reflux 819/FO** is one of the **pilot-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for use with previously filtered non-corrosive gases, and it is mainly used for high-pressure transmission systems, power plants and for medium pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Open**. The Reflux 819/FO is **Hydrogen Ready** for NG-H2 blending.



-  Gas liquefaction
-  City gates
-  Power generation
-  Gas compression / booster stations
-  Heavy industries
-  LNG marine
-  Gas storage
-  Regasification
-  Gas reverse-flow

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 10.2 MPa up to 1,479 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 0.3 MPa to 10.2 MPa from 43.5 psig to 1,479 psig |
| Range of downstream pressure (Wd ¹) | from 0.1 MPa to 7.4 MPa from 14.5 psig to 1,073 psig |
| Available accessories | DB/819 Silencer, LDB/171 Silencer, PM/819 Monitor, SB/82 Slam shut, HB/97 Slam shut |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.2 MPa 29 psig |
| Accuracy class (AC ¹) | up to 2.5 |
| Lock-up pressure class (SG ¹) | up to 5 |
| Nominal size (DN ^{1,2}) | DN 25 1"; DN 50 2"; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10"; DN 300 12" |
| Connections | Class 150, 300, 600 RF or RTJ according to ASME B16.5 and PN16 |

(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

Materials and Approvals

| Part | Material |
|----------------------|--|
| Body | ASTM A 352 LCC cast steel for classes ANSI 600 and 300; ASTM A 216 WCB cast steel for classes ANSI 150 and PN 16/40 |
| Heads | ASTM A 350 LF2 steel |
| Stem | AISI 416 stainless steel |
| Plug | ASTM A 350 LF2 nickel-plated steel |
| Seat | Vulcanized Nitrile Rubber on metal support |
| Membrane | Rubberised Canvas (pre-formed by hot-pressing process) |
| O-rings | Nitrile Rubber |
| Compression fittings | Made of zinc-plated steel according to DIN 2353; on request, stainless steel |

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

Table 2 Materials

The **Reflux 819/FO** regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Open) according to EN 334. The product is certified according to European Directive 2014/68/EU (PED). DVGW certified as a truly Fail Open regulator. Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE



DVGW

Reflux 819/FO competitive advantages



Compact and simple design



High accuracy



1:1000 High turn-down ratio



True Fail Open plug and seat regulator



Built-in pilot filter



Top Entry



Easy maintenance



Built-in accessories



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




Balanced type

Staflux 187

Staflux 187 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 it is mainly used for high-pressure transmission systems and for medium pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Open**. The Staflux 187 is **Hydrogen Ready** for NG-H2 blending.



-  Gas liquefaction
-  City gates
-  Power generation
-  Gas compression / booster stations
-  Heavy industries
-  LNG marine
-  Gas storage
-  Regasification
-  Gas reverse-flow

| Features | Values |
|---|---|
| Design pressure* (PS ¹ / DP ²) | up to 25.0 MPa up to 3,625 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 0.2 MPa to 20 MPa from 29 psig to 2,900 psig |
| Range of downstream pressure (Wd ¹) | from 0.1 MPa to 7.5 MPa from 14.5 psig to 1,088 psig |
| Available accessories | stand alone SBC 187 slam shut valve |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.1 MPa 14.5 psig |
| Accuracy class (AC ¹) | up to 5 (depending on working conditions) |
| Lock-up pressure class (SG ¹) | up to 10 (depending on working conditions) |
| Nominal size (DN ^{1,2}) | DN 25 1"; |
| Connections | Class 1500 RF or RTJ according to ASME B16.5 |

(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

Materials and Approvals

| Part | Material |
|----------------------|----------------------------|
| Body | Cast steel ASTM A352 LCC |
| Cover | ASTM A350 LF2 carbon steel |
| Stem | AISI 416 stainless steel |
| Seat | Stainless steel |
| Diaphragm | Vulcanized rubber |
| Sealing ring | Nitrile rubber |
| Compression fittings | Zinc-plated carbon steel |

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

Table 2 Materials

The **Staflux 187** regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Open) according to EN 334. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

Staflux 187 competitive advantages



Compact and simple design



Easy maintenance



Operates with high differential pressure



Balanced type



Does not require gas pre-heating



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



Top Entry

Staflux Mini

The **Staflux Mini** is a **direct-operated pressure regulator** controlled by a diaphragm and contrasting regulated counter pressure action. Mainly used for CNG trailers, high-pressure transmission systems and for medium pressure natural gas distribution networks, it can be used with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as **Fail Close**. The Staflux Mini is **Hydrogen Ready** for NG-H2 blending.



Heavy industries



Medium /small industries



Gas storage

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 25 MPa up to 3,625 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 0.5 MPa to 25 MPa from 72.5 psig to 3,625 psig |
| Range of downstream pressure (Wd ¹) | from 0.4 MPa to 7.5 MPa from 58 psig to 1,088 psig |
| Available accessories | built-in filter |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.1 MPa 14.5 psig |
| Accuracy class (AC ¹) | up to 10 (depending on working conditions) |
| Lock-up pressure class (SG ¹) | 10 (depending on working conditions) |
| Nominal size (DN ^{1,2}) | DN 25 1" |
| Connections | Class 1500 RF according to ANSI B16.5 or threaded NPT |

(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

Materials and Approvals

| Part | Material |
|--------------|------------------------------|
| Body | ASTM A350 LF2 – Carbon Steel |
| Cover | ASTM A350 LF2 – Carbon Steel |
| Plug | Stainless steel AISI 416 |
| Seat | Stainless steel AISI 416 |
| Diaphragm | Rubber : NBR/PVC |
| Sealing ring | Nitril rubber |
| Stem | AISI 416 |

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

Table 2 Materials

The **Staflux Mini** regulator is designed according to the European standard EN 334. The regulator reacts in closure (Fail Close) according to EN 334. Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334

Staflux Mini competitive advantages



Compact and simple design



Top Entry



Operates with high differential pressure



Easy maintenance



Does not require gas pre-heating



Built-in filter



Balanced type



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

Cirval

The **Cirval** is a **lever-operated gas pressure regulator** controlled by a diaphragm and setting spring which controls the valve. 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. According to the European Standard EN 334, it is classified as **Fail Open**. The Cirval is **Hydrogen Ready** for NG-H2 blending.



Gas engines



District stations



Commercial users



Regasification



Medium / small industry

| Features | Values |
|---|---|
| Design pressure* (PS ¹ / DP ²) | up to 860 kPa up to 125 psig |
| Ambient temperature* (TS ¹) | from -29 °C to +65 °C from -20 °F to +150 °F |
| Inlet gas temperature* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Inlet pressure (MAOP / p _{umax} ¹) | from 13.8 kPa to 517 kPa from 2 psig to 75 psig |
| Range of downstream pressure (Wd ¹) | from 1.7 kPa to 82 kPa from 6.4" w.c. to 12 psig |
| Available accessories | LA Slam shut, IMD (Independent Monitoring Device), IFM (Integral Full Monitor), built-in strainer |
| Minimum operating differential pressure (Δp _{min} ¹) | 12 kPa 1.75 psig |
| Accuracy class (AC ¹) | up to 10 |
| Lock-up pressure class (SG ¹) | up to 20 |
| Nominal size (DN ^{1,2}) | DN 32 1-1/4"; DN 40 1-1/2"; DN 50 2" |
| Orifice | Cirval 200: 3/4" Cirval 300: 1-1/2" |
| Connections | Cirval 200: 1-1/4", 1-1/2" and 2" NPT according to ANSI B1.20.1, Cirval 300: 2" NPT according to ANSI B1.20.1, 2" S.125FF according to ANSI B16.5 and Sliding 2" S.150RF for AU version |

(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

Materials and Approvals

| Part | Material |
|--------------|---------------------------------|
| Body | Ductile iron GS 400-18 ISO 1083 |
| Cover | Die cast aluminum |
| Seat | Brass |
| Diaphragm | Nitrile rubber |
| Sealing ring | Nitrile |

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

Table 2 Materials

The **Cirval** regulator is designed according to ANSI B109.4 and CSA 6.18 standards. The regulator reacts in opening (Fail Open) according to EN 334. Leakage class: bubble tight, better than class VIII according to ANSI/FCI 70-3.



ANSI B109.4



CSA 6.18

Cirval competitive advantages



Compact and simple design



High accuracy



Fail Open plug and seat regulator



Balanced type



Top entry



Easy maintenance



Built-in accessories



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

Dival 500

The **Dival 500** by Pietro Fiorentini is a **lever-operated** 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 be used with previously filtered non-corrosive gases. According to the European Standard EN 334, it is classified as **Fail Open**. The Dival 500 is **Hydrogen Ready** for NG-H2 blending.



District stations



Medium/small industry



Commercial users

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 1 MPa for BP, up to 2 MPa for MP and TR up to 145 psig for BP, up to 290 psig for MP and TR |
| 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) | <ul style="list-style-type: none"> from (Pd + 0.01) MPa to 1 MPa from BP from (Pd + 0.01) MPa to 2 MPa for MP and TR from (Pd + 1.45) psig to 145 psig from BP from (Pd + 1.45) psig to 290 psig for MP and TR |
| Range of downstream pressure (Wd ¹) | <ul style="list-style-type: none"> from 1.3 to 10 kPa for BP, from 10 to 30 kPa for MP, from 30 to 250 kPa for TR from 5 to 40 "w.c. for BP, from 1.45 to 4.3 psig for MP, from 4.3 to 36 psig for TR |
| Available accessories | LA slam shut, relief valve, monitor version |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.01 MPa 1.45 psig |
| Accuracy class (AC ¹) | up to 10 |
| Lock-up pressure class (SG ¹) | up to 20 (depending on version and set point) |
| Nominal size (DN ^{1,2}) | DN 1"x1"; DN 1"x1" 1/2 |
| Connections | Threaded Rp EN 10226-1, NPT ASME B1.20.1 |

(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

Materials and Approvals

| Part | Material |
|-----------|---|
| Body | Cast Iron GS 400-18 UNI EN 1083 Aluminum EN AC 43300 UNI EN 1706 |
| Cover | Aluminum |
| Seat | Brass |
| Diaphragm | Fabric finish rubber |
| O-ring | Nitrile Rubber |

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

Table 2 Materials

The **Dival 500** regulator is designed according to EN 334 and certified according to ANSI B109.4 and CSA 6.18 standards.

The product is certified according to European Directive 2014/68/EU (PED).

The regulator reacts in opening (Fail Open) according to EN 334.

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



EN 334



PED-CE



ANSI B109.4



CSA 6.18

Dival 500 competitive advantages



Balanced type



Operates with low differential pressure



High accuracy



Fail Open plug and seat regulator



Token IRV



Internal sensing line



Top Entry



Easy maintenance



Built-in accessories



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

Dival 600

Dival 600 is part of Pietro Fiorentini's range of **direct-acting** gas pressure regulators with diaphragm control and spring contrast. Mainly used in medium and low-pressure natural gas distribution networks, it can be used with pre-treated gaseous fluids. It is classified as **Fail Open** according to the European Standard EN 334. The Dival 600 is **Hydrogen Ready** for NG-H2 blending.



Gas engines



District stations



Commercial users



Regasification



Medium/small industry

| Features | Values |
|---|---|
| Design pressure* (PS ¹ / DP ²) | up to 2 MPa up to 290 psi |
| 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 (Pd + 0.01) MPa to 2 MPa from (Pd + 1.45) psi to 290 psi |
| Range of downstream pressure (Wd ¹) | from 1.2 KPa to 420 KPa from 0.18 psi to 60.9 psi |
| Available accessories | LA slam shut, built-in silencer, monitor version, overflow |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.01 MPa 1.45 psi |
| Accuracy class (AC ¹) | up to 5 |
| Lock-up pressure class (SG ¹) | up to 10 (depending on version and set point) |
| Nominal size (DN ^{1,2}) | DN 25 1"; DN 40 1" 1/2; DN 50 2"; |
| Connections | <ul style="list-style-type: none"> Flanged: class 150 RF according to ASME B16.5 and ASME B16.42 ANSI Class 125 FF according to ASME B16.1, PN16/25 according to ISO 7005-1 and ISO 7005-2 Threaded: Rp EN 10226-1, NPT ASME B1.20.1 (only size DN50 2") |

(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

Materials and Approvals

| Part | Material |
|----------------|---|
| Equipment body | Cast iron GS 400-18 ISO 1083 Steel ASTM A216 WCB |
| Cover | Aluminum |
| Seat | Brass |
| Diaphragm | Canvas rubber |
| O-rings | Nitrile rubber |

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

Table 2 Materials

The **Dival 600** regulator is designed according to European standard EN 334. The regulator reacts in opening (Fail Open) 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

Dival 600 competitive advantages



Balanced type



IRV token



Operates with low differential pressure



Top Entry



High precision



Easy maintenance



Fail Open Regulator



Built-in accessories



High turn-down ratio



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

Norval

The **Norval** by Pietro Fiorentini is a **direct-operated** gas pressure regulator. Suitable for use with previously filtered gaseous fluids, it is mainly used for medium and low pressure natural gas distribution networks. It is classified as **Fail Open** according to the European Standard EN 334. The Norval is **Hydrogen Ready** for NG-H2 blending.



Medium/small industry



Gas engines



Regasification



District stations



Commercial users

| Features | Values |
|---|---|
| Design pressure* (PS ¹ / DP ²) | up to 1.89 Mpa up to 275 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) | <ul style="list-style-type: none"> for DN up to 3": from 0.01 MPa to 1.89 MPa from 1.45 psig to 275 psig for DN 4", 6" and 8": from 0.01 MPa to 0.86 MPa from 1.45 psig to 125 psig |
| Range of downstream pressure (Wd ¹) | <ul style="list-style-type: none"> for DN up to 4": from 0.8 kPa to 0.44 MPa from 3.2" w.c. to 63.8 psig for DN 6" and 8": from 1.2 kPa to 0.18 MPa from 4.82" w.c. to 26 psig |
| Available accessories | SN Slam shut, silencer, ER monitor attachment |
| Minimum operating differential pressure (Δp _{min} ¹) | 10 kPa 40" w.c. |
| Accuracy class (AC ¹) | up to 5 (depending on working conditions) |
| Lock-up pressure class (SG ¹) | up to 10 (depending on working conditions) |
| Nominal size (DN ^{1,2}) | DN 25 1"; DN 40 1" 1/2; DN 50 2"; DN 65 2" 1/2; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8" |
| Connections | Class 150 RF according to ASME B16.5 and PN16 according to ISO 7005 |

(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

Materials and Approvals

| Part | Material |
|----------------------|---|
| Body | Cast steel ASTM A 216 WCB (all DN). Spheroidal ductile iron GS 400 – 18 ISO 1083 DN 150 (6") included. |
| Cover | From diameter 375 mm to 630 mm die stamped carbon steel From diameter 658 mm to 817 mm aluminum |
| Seat | Stainless steel |
| Diaphragm | Rubberized canvas (performed by hot-pressing process). |
| O-rings | Nitrile rubber |
| Compression fittings | On request |

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

Table 2 Materials

The **Norval** regulator is designed according to the European standard EN 334. The regulator reacts in opening (Fail Open) 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

Norval competitive advantages



Compact and simple design



High accuracy



Fail Open plug and seat regulator



Balanced type



Top Entry



Easy maintenance



In-built accessories



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

Reval 182

The **Reval 182** is one of the **pilot-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for use with previously filtered non-corrosive gases, and it is mainly used for medium and low pressure natural gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Close**.



Gas engines



Medium/small industry



District stations

| Features | Values |
|---|---|
| Design pressure* (PS ¹ / DP ²) | up to 2.5 MPa up to 362 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 0.02 to 2.5 MPa from 2.9 psig to 362 psig |
| Range of downstream pressure (Wd ¹) | from 0.7 KPa to 1.2 MPa from 2.81" w.c. to 174 psig |
| Available accessories | DB/182 Silencer, PM/182 Monitor, SB/82 Slam shut, SA Slam shut HB/97 Slam shut, opening indicator |
| Minimum operating differential pressure (Δp _{min} ¹) | 0.01 MPa 1.45 psig |
| Accuracy class (AC ¹) | up to 2.5 |
| Lock-up pressure class (SG ¹) | up to 5 |
| Nominal size (DN ^{1,2}) | DN 25 1"; DN 50 2" DN 65 2" 1/2; DN 80 3"; DN 100 4"; DN 150 6"; DN 200 8"; DN 250 10" |
| Connections | Class 150 RF or RTJ according to ASME B16.5 and PN16, 25 and 40 according to ISO 7005 |

(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

Materials and Approvals

| Part | Material |
|----------------------|---|
| Body | Cast steel ASTM A216 WCB for all sizes Ductile iron GS 400-18 ISO 1083 for Size ≤ 8" |
| Heads | Die stamped carbon steel |
| Stem | AISI 416 Stainless steel |
| Plug | ASTM A 350 LF2 Nickel coated on sealing surfaces |
| Seat | Steel + vulcanized rubber |
| Diaphragm | Rubberized canvas |
| O-rings | Nitrile Rubber |
| Compression fittings | In zinc-plated carbon steel according to DIN 2353 Stainless steel on request |

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

Table 2 Materials

The **Reval 182** regulator is designed according to the European standard EN 334. The regulator reacts in closing (Fail Close) according to EN 334. The product is certified according to European Directive 2014/68/EU (PED). Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.



EN 334



PED-CE

Reval 182 competitive advantages



Compact and simple design



Top Entry



High accuracy



Easy maintenance



1:500 High turn-down ratio



In-built accessories



Fail Close plug and seat regulator



Balanced type



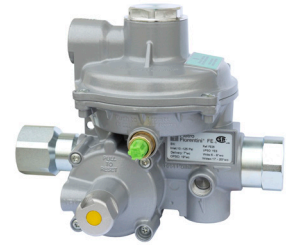
Built-in pilot filter



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

FE 25/50

The **FE** 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 previously filtered non-corrosive gases including biomethane and natural gas blended with hydrogen. 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). The FE is **Hydrogen Ready** for NG-H2 blending.



Residential users

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 860 kPa up to 125 psig |
| Ambient temperature* (TS ¹) | All versions -40°C to +65°C -40°F to +150°F |
| Inlet gas temperature* | <ul style="list-style-type: none"> Standard version -10°C to +65°C 14°F to +150°F Arctic version -20°C to +65°C -22°F to +150°F |
| Inlet pressure (MAOP / p _{umax} ¹) | from 10 kPa to 0.86 MPa from 1.45 psig to 125 psig |
| Range of downstream pressure Wds | <ul style="list-style-type: none"> from 1.3 kPa to 16 kPa for BP version from 5" w.c. to 2.6 psig for BP version from 16.1 kPa to 50 kPa for MP version from 2.61 psig to 7.25 psig for MP version |
| Range of downstream pressure Wdso | <ul style="list-style-type: none"> from 1.3 kPa to 18 kPa for BP version from 5.2" w.c. to 2.6 psig for BP version from 30 kPa to 80 kPa for MP version from 4.31 psig to 11.6 psig for MP version |
| Minimum inlet pressure and nominal capacity | <ul style="list-style-type: none"> up to 24.8 Sm³/h 875 sfch with 28 kPa 4 psig differential pressure up to 42.7 Sm³/h 1,500 sfch with 69 kPa 10 psig differential pressure |
| Accuracy class (AC ¹) | 10 |
| Lock-up pressure class (SG ¹) | 20, minimum 0.75 kPa 3" w.c. |
| Connections* | In-line 3/4" or 1" NPT according to ANSI B1.20.1, other configurations or 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

Materials and Approvals

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

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

Table 2 Materials

Construction Standards and Approvals

The FE regulator is designed according to the European standard EN 16129, Italian Standard UNI 11655, ANSI B109.4 and CSA 6.18.

The FE 25/50 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

FE 25/50 competitive advantages



Operates with low differential pressure



Built-in thermal valve option



Slam shut for over pressure
Slam shut for under pressure



Built-in strainer for seat protection



Two-stage double diaphragm and single orifice regulator



Built-in flow limiter valve option



Highly customizable



Suitable for outdoor installations



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



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

FE 75/100

The **FE** 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 previously filtered non-corrosive gases including biomethane and natural gas blended with hydrogen. 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). The FE is **Hydrogen Ready** for NG-H2 blending.



Commercial users

| Features | Values |
|---|--|
| Design pressure* (PS ¹ / DP ²) | up to 860 kPa up to 125 psig |
| Ambient temperature* (TS ¹) | All versions -40°C to +65°C -40°F to +150°F |
| Inlet gas temperature* | <ul style="list-style-type: none"> Standard version -10°C to +65°C 14°F to +150°F Arctic version -20°C to +65°C -22°F to +150°F |
| Inlet pressure (MAOP / p _{umax} ¹) | from 10 kPa to 0.86 MPa from 1.45 psig to 125 psig |
| Range of downstream pressure Wds | <ul style="list-style-type: none"> from 1.3 kPa to 16 kPa for BP version from 5" w.c. to 2.6 psig for BP version from 16.1 kPa to 50 kPa for MP version from 2.61 psig to 7.25 psig for MP version |
| Range of downstream pressure Wdso | <ul style="list-style-type: none"> from 1.3 kPa to 18 kPa for BP version from 5.2" w.c. to 2.6 psig for BP version from 30 kPa to 80 kPa for MP version from 4.31 psig to 11.6 psig for MP version |
| Minimum inlet pressure and nominal capacity | <ul style="list-style-type: none"> up to 24.8 Sm³/h 875 sfch with 28 kPa 4 psig differential pressure up to 42.7 Sm³/h 1,500 sfch with 69 kPa 10 psig differential pressure |
| Accuracy class (AC ¹) | 10 |
| Lock-up pressure class (SG ¹) | 20, minimum 0.75 kPa 3" w.c. |
| Connections* | In-line 3/4" or 1" NPT according to ANSI B1.20.1, other configurations or 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

Materials and Approvals

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

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

Table 2 Materials

Construction Standards and Approvals

The FE regulator is designed according to the European standard EN 16129, Italian Standard UNI 11655, ANSI B109.4 and CSA 6.18.

The FE 75/100 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

FE 75/100 competitive advantages



Operates with low differential pressure



Built-in thermal valve option



Slam shut for over pressure
Slam shut for under pressure



Built-in strainer for seat protection



Two-stage double diaphragm and single orifice regulator



Built-in flow limiter valve option



Highly customizable



Suitable for outdoor installations



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



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

Governors

Pietro Fiorentini's **Governors** line of gas regulators are designed to comply with the latest CSA and international standards. They are suitable for indoor and outdoor installations with no modifications. The **Governors** family of regulators are ideal for a wide range of residential through large industrial applications. The materials and soft parts make them suitable for use with natural gas, LPG, Propane air and other non-corrosive gases. The Governors are **Hydrogen Ready** for NG-H2 blending.



Medium/small industry



Commercial users



Residential users

| Features | Values |
|---------------------------------|---|
| Design pressure* | up to 0.1 MPa up to 14.5 psig |
| Ambient temperature* | from -40 °C to +60 °C from -40 °F to +140 °F |
| Inlet pressure range bpu (MAOP) | <ul style="list-style-type: none"> from Wd+0.75 KPa to 14 KPa STD version for CSA certified applications, otherwise up to 50 KPa from Wd+3"w.c. to 2 psig STD version for CSA certified applications, otherwise up to 7.25 psig from Wd+1.7 KPa to 68.9 KPa Dual Cut (DC) version or OPD from Wd+7"w.c. to 10 psig Dual Cut (DC) version or OPD |
| Range of downstream pressure Wd | from 1.7 KPa to 3.5 KPa and up to 29.3 KPa non-CSA application from 2"w.c. to 14"w.c. and up to 4.25 psig non-CSA application |
| Available Accessories | In-built filter, vent limiter |
| Minimum differential pressure | from 0.75 KPa for STD version and 17.2 KPa for DC/OPD version from 3"w.c. for STD version and 2.5 psig for DC/OPD version |
| Accuracy class AC | up to 15 |
| Lock-up pressure class SG | up to 30, minimum 0.75 KPa 3 "w.c. |
| Nominal dimensions DN | DN 15 1/2"; DN 20 3/4"; DN 25 1"; DN 32 1-1/4"; DN 40 1-1/2"; DN 50 2"; DN 65 2-1/2"; DN 80 3"; DN 100 4" |
| Connections* | from 1/2" to 2" NPT according to ANSI B1.20.1 from 2-1/2" to 4" flanged class 150 RF according to ASME B16.5 |

(* Note: 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 |
|--------------|----------------|
| Body | Aluminum |
| Cover | Aluminum |
| Diaphragm | Nitrile rubber |
| Sealing ring | Nitrile |

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

Table 2 Materials

The **Governors** regulators are designed and certified according to ANSI Z21.80 / CSA 6.22 and ANSI Z21.18 / CSA 6.3B standards.

The regulators react in opening (Fail Open) according to EN 334.

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



ANSI Z21.80



CSA 6.22



ANSI Z21.18



CSA 6.3B

Governors competitive advantages



Balanced type



1:500 High turn-down ratio



Operates with low differential pressure



Easy maintenance



High accuracy



2.5 scfh Vent limiter option



Fail Open plug and seat regulator



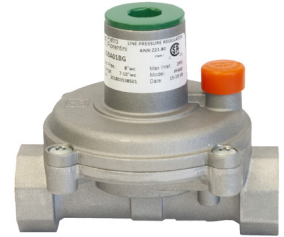
Biomethane compatible and 20% Hydrogen blending compatible. Higher blending available on request



In-built filter

PF 400

Pietro Fiorentini's **PF400** line of gas regulators are designed to comply with the latest CSA and international standards. They are suitable for indoor and outdoor installations with no modifications. The **PF400** family of regulators are ideal for a wide range of residential through large industrial applications. The materials and soft parts make them suitable for use with natural gas, LPG, Propane air and other non-corrosive gases. The PF 400 is **Hydrogen Ready** for NG-H2 blending.



Gas engines



Commercial users



Residential users

| Features | Values |
|---------------------------------|---|
| Design pressure* | up to 0.45 MPa up to 65 psig |
| Ambient temperature* | from -40 °C to +60 °C from -40 °F to +140 °F |
| Inlet gas temperature range* | from -20 °C to +60 °C from -4 °F to +140 °F |
| Inlet pressure range bpu (MAOP) | <ul style="list-style-type: none"> from 3.4 KPa to 13.8 KPa STD version for CSA certified applications, otherwise up to 68.9 KPa from 0.5 psig to 2 psig STD version for CSA certified applications, otherwise up to 10 psig from 13.8 KPa to 68.9 KPa Dual Cut (DC) version for CSA certified applications, otherwise up to 103,4 KPa from 2 psig to 10 psig Dual Cut (DC) version for CSA certified applications, otherwise up to 15 psig |
| Range of downstream pressure Wd | <ul style="list-style-type: none"> from 0.6 KPa to 3.5 KPa for CSA Class I. from 3.5 KPa to 13.8 KPa for non CSA versions. from 2.5" w.c. to 0.5 PSIG for CSA Class I. from 0.5 PSIG to 2 PSIG for non CSA versions. |
| Available Accessories | In-built strainer, vent limiter |
| Minimum differential pressure | from 0.75 KPa for STD version and from 1.25 KPa for DC version from 3"w.c. for STD version and from 5"w.c for DC version |
| Accuracy class AC | up to 15 |
| Lock-up pressure class SG | up to 30 |
| Nominal dimensions DN | DN 10 3/8" ; DN 15 1/2" |
| Connections* | NPT according to ANSI B1.20.1 |

(* Note: 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 |
|--------------|----------------|
| Body | Aluminum |
| Cover | Aluminum |
| Diaphragm | Nitrile rubber |
| Sealing ring | Nitrile |

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

Table 2 Materials

The **PF 400** regulator is designed and certified according to ANSI Z21.80 / CSA 6.22 and ANSI Z21.18 / CSA 6.3B standards.

The regulator reacts in opening (Fail Open) according to EN 334.

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



ANSI Z21.80



CSA 6.22



ANSI Z21.18



CSA 6.3B

PF 400 competitive advantages



High accuracy



Easy maintenance



Fail Open plug and seat regulator



Vent limiter option



In-built strainer



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

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