Pietro Fiorentini

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

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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

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
- Operates with high differential pressure
- Built-in filter
- Token IRV
- Top entry
- Built-in accessories
- Easy maintenance
- Biomethane compatible and available with specific versions for full Hydrogen or blending