

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

Features	Values	
Design pressure* (PS ¹ / DP ²)	up to 6.94 MPa up to 1000 psig	
	Standard version	Arctic version
Ambient temperature* (TS ¹)**	from -20 °C to +65 °C from -4 °F to +150 °F	from -40 °C to + 65°C from -40 °F to +150 °F
Inlet gas temperature* ^{***}	from -10°C to + 60°C from +14 °F to +140 °F	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 10 (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 Sizes	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.

(**) 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.

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