



FE

Balanced Two-Stage, Dual Diaphragm
Residential Service Regulator

**DESIGNED, TESTED AND CERTIFIED
EXCEEDING THE FOLLOWING STANDARDS:**

- ANSI Z21.80A & CSA 6.22A for 10 PSIG inlet applications
- ANSI B109.4
- CSA B149/CSA 6.18

FE

Classification and Application Fields

FE series of two-stage balance valve spring controlled regulator are widely used for both residential and commercial installations using **natural gas, LPG and other non-corrosive gases.**

The FE is designed for gas meter fixed factor billing and fuel line pressure regulation. It can be mounted in any position.

If the installation is in an enclosed area, the internal relief vent can be piped to outside. Simple installation procedures are provided with the regulator.

FE regulators are manufactured according to **ANSI B109.4 and CSA 6.18-02.**

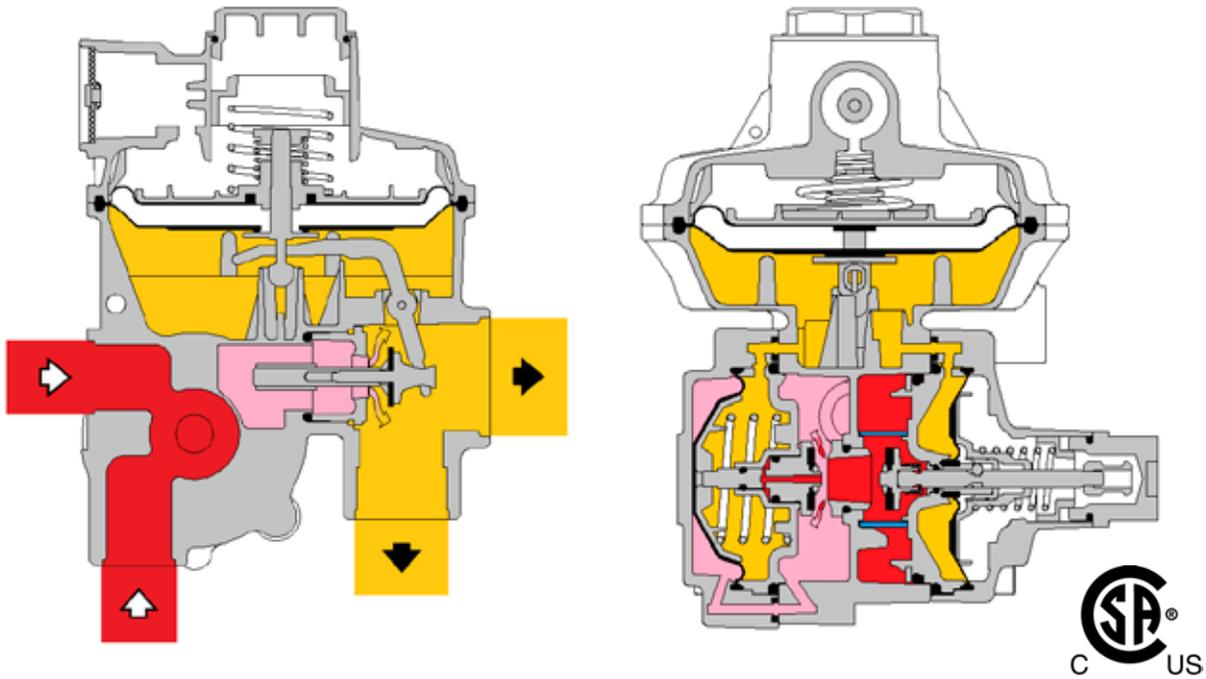
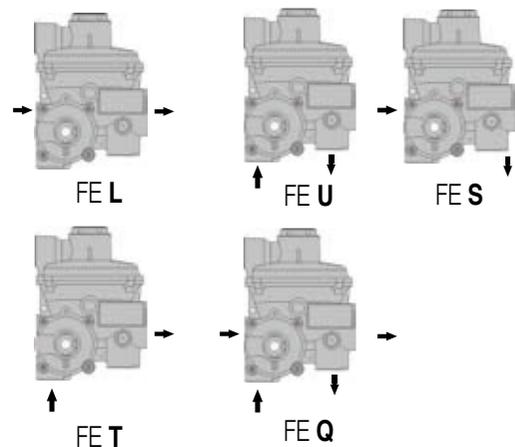


Fig.1 FE- CSA Version

-  Inlet pressure (P_u)
-  Intermediate pressure
-  Outlet pressure (P_d)

Connection configuration



MAIN FEATURES

- **Inlet pressure range:** 4.3 - 125 PSIG
- **Max allowable pressure:** PS: 125 PSIG
- **Outlet pressure range: BP:** 5 - 72.3" W.C.
- **TR:** 2.6 - 7.2 PSIG
- **Over pressure shut-off range: OPSO BP** 14 - 120.5" W.C.
OPSO TR 4.3 - 11.6 PSIG
- **Accuracy class AC:** up to 5%
- **Lock up pressure class:** up to 10%
- **Temperature:** Gas Temperature -4°F +140°F and Ambient Temperature -40 to +140 °F
- **Models and Capacity:** FE10 : 350 SCFH, FE25 : 875 SCFH, FE75 : 1,765 SCFH
NOTE: The FE is a 2 stage regulator and the capacity is fixed from 4.3 to 125 PSIG inlet pressure

SAFETY DEVICES AND ACCESSORIES:

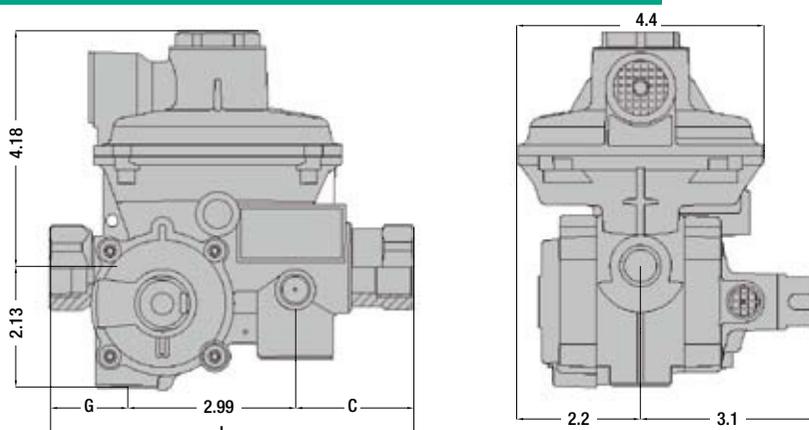
- **Inlet filter:** area 0.775 in² (500 mm²) 300 µm efficiency (cleanable)
- **Over Pressure Shut-off Device (OPSO)**
- **Excess flow valve**
- **Manual reset of safety shutoff device only**
- **Token relief valve**
- **Safety shut-off for second stage diaphragm failure**
- **Underground/underwater version with non-corrosive trim**
- **Univent version for indoor installation venting**
- **ANSI Z21.80 version 10 PSIG max inlet & class II outlet pressure rating**

MATERIALS:

- **Body:** Aluminum
- **Cover:** Aluminum
- **External paint:** Epoxy polymeric powder paint

The FE regulators comply with and are certified to CSA 6.22A-2005 and ANSI Z21.80A-2019 for 10 PSIG inlet applications. The FE design can incorporate a vent limiter to ensure the installation complies with CSA 6.22A-2005 and ANSI Z21.80A -2005. When using an external vent limiter, the flat top of the vent limiter must always be facing up. Minimum vent size for the FE is 1/4" O.D. tubing. **CSA witness test diaphragm failure vent rate is less than .8 cu.ft./hr. NOTE: The vent limiter must never be installed outdoors!**

DIMENSIONS



For dimension G-C-I depending on selected connections..

Inlet	Outlet	G	C	I
3/4" NPT	3/4" NPT	1.37	2.1	6.7
3/4" NPT	1" NPT	1.61	2.1	6.47
1"NPT	1"NPT	1.61	2.1	6.7
Dimensions in inches				Tab. 1

Weight
4.4 lbs
Tab. 2



EQUIPMENT CONTROLS COMPANY

Ph: 800.554.1036

www.equipmentcontrols.com

