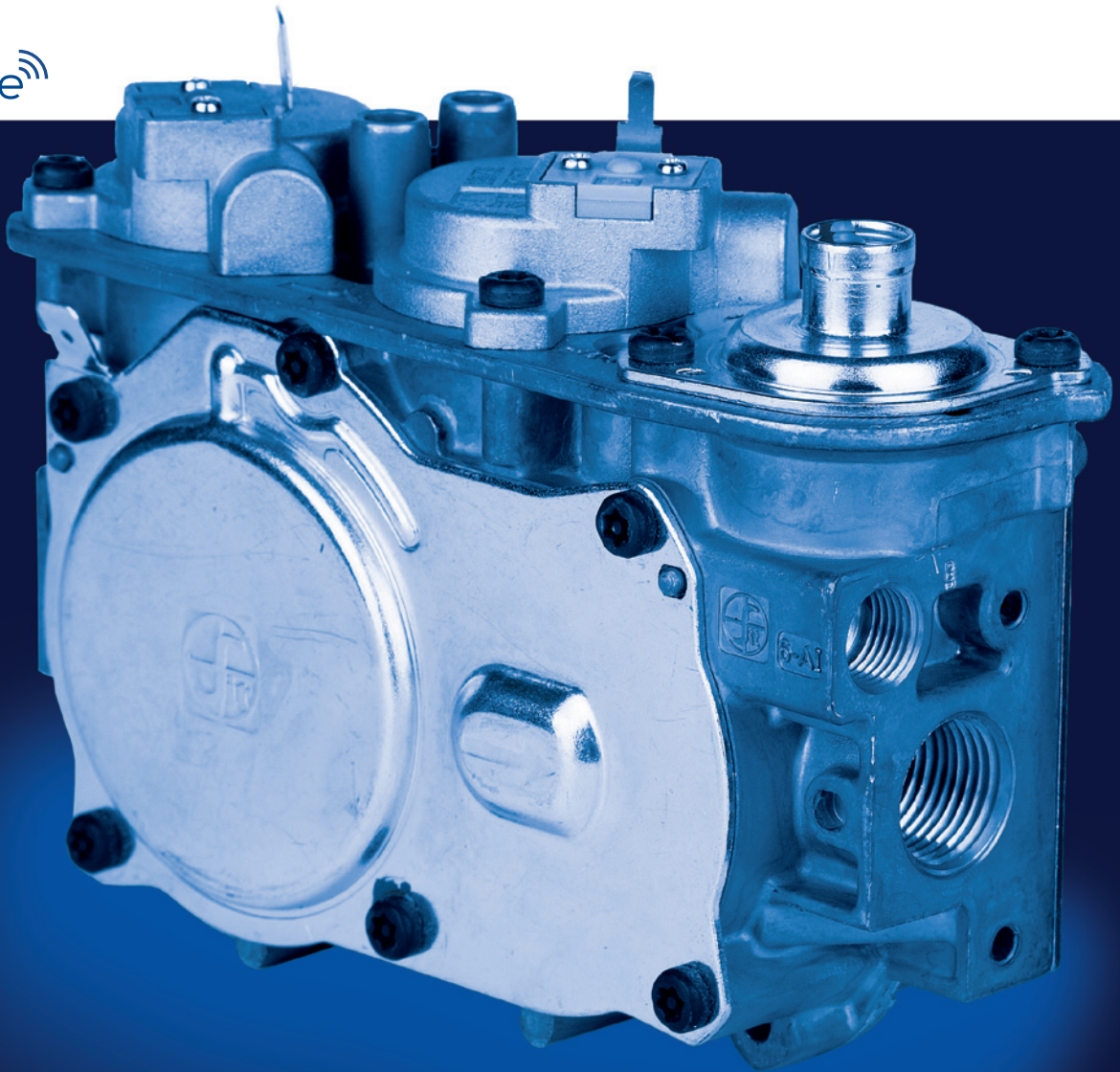


Proflame[®]



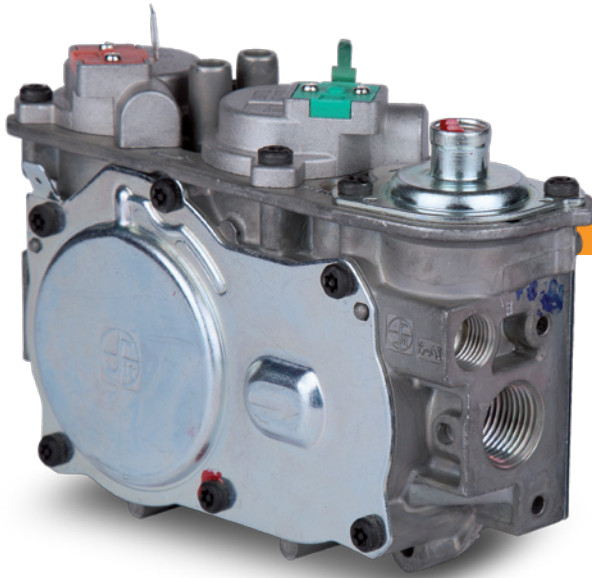
 **SIT**

***P**roflame 880 - 886 - 885
Multifunctional Control
for Gas Burning Appliances*

SIT PROFLAME

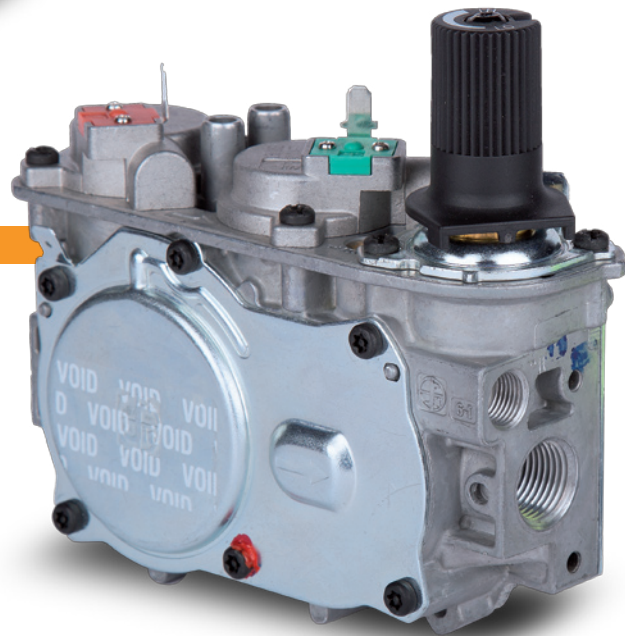


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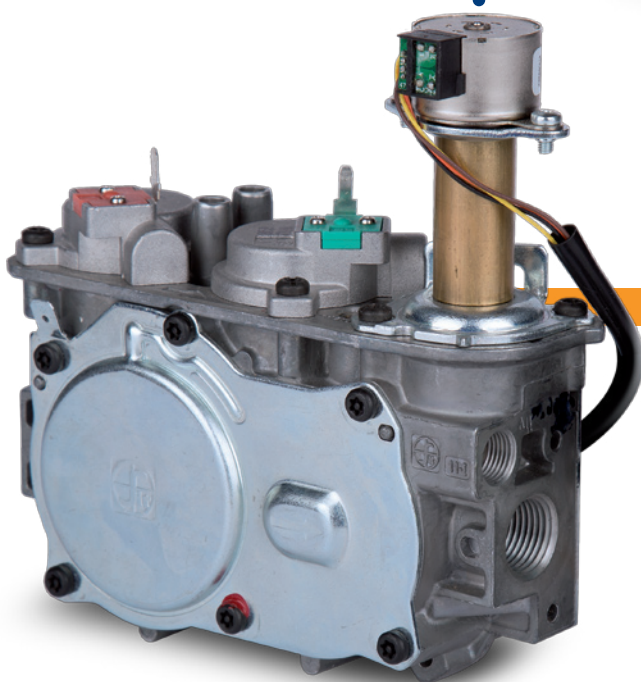
PROFLAME 880

Electrical pressure modulator device



PROFLAME 886

HI-LO pressure modulator device



PROFLAME 885

Main Features

- Automatic ignition gas control system that includes a user selectable intermittent or standing pilot
- Twin safety system with true flame detection for enhanced safety and reliability
- On/Off, manual High/Low, and remote modulation valve configurations
- Integrated for use with the Proflame Remote Control family GT, GTS, GTM, GTMS, GTMF, GTMFS
- Operable from a wall switch or a remote control
- Low power consumption design provides a choice of AC operation or AC power with battery backup

Use Specifications

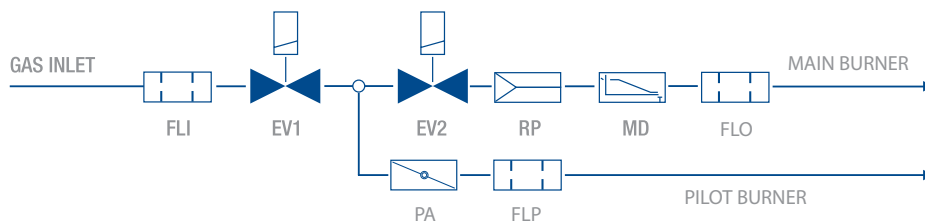
- Installation position _____ Upright, $\leq 90^\circ$ from upright (Never upside down)
- Gas families _____ Natural Gas, LPG
- Ambient operating temperature range _____ 32 to 175 °F
- Maximum inlet pressure _____ 1/2 psi
- NOT for direct burner ignition appliances
- Approval _____ CSA international

Mechanical Connections

- Gas inlet and outlet connections _____ 3/8" - 18 NPT ANSI B 1.20.1
- Pilot outlet _____ 7/16" - 24 UNS - 2B ANSI
- Pressure test points _____ $\varnothing 9$ mm

Valve Description

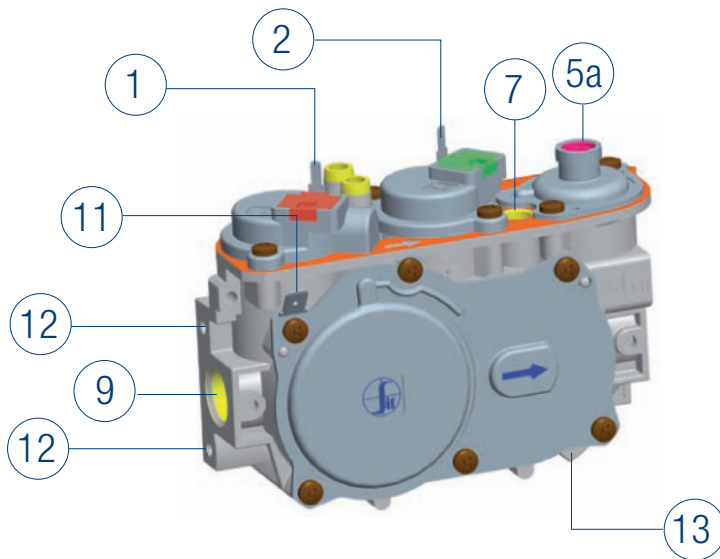
It consists of two automatic shut-off valves and a servo pressure regulator in series in the main gas path.



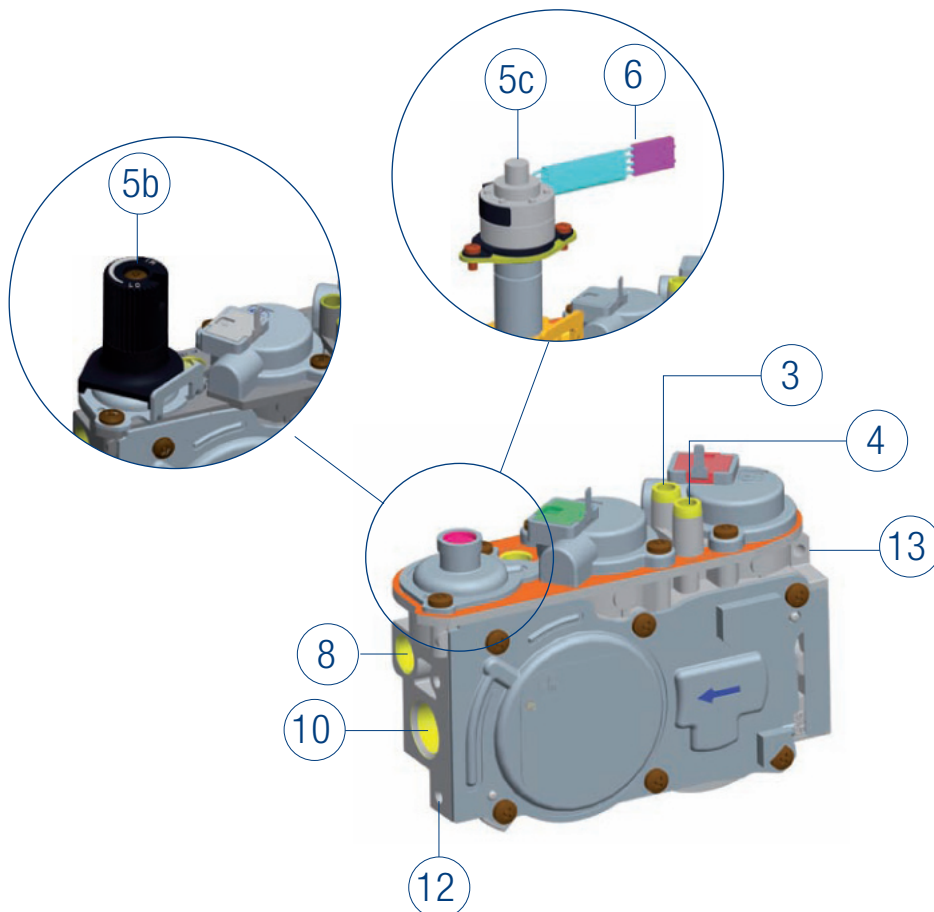
With reference to the schematic block in the figure:

- FLI is the inlet filter
- EV1 is the first automatic shut-off valve
- EV2 is the second automatic shut-off valve
- RP is a pressure regulator
- MD is a pressure modulator device
- FLO is the outlet filter
- PA is the pilot adjustment screw
- FLP is the pilot filter

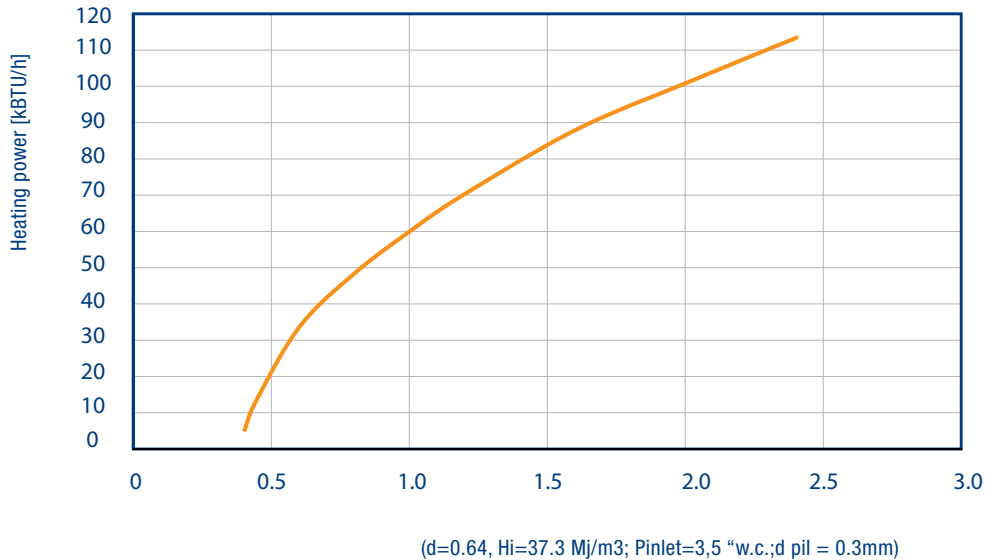
Valve Description



- 1 ON-OFF solenoid EV1 terminals
- 2 ON-OFF solenoid EV2 terminals
- 3 Inlet pressure test point
- 4 Outlet pressure test point
- 5a Pressure modulator device
- 5b HI-LO pressure modulator device
- 5c Electrical pressure modulator device
- 6 Pressure modulator device terminal
- 7 Pilot adjusting screw
- 8 Pilot outlet
- 9 Gas inlet with protective seal
- 10 Gas outlet with protective seal
- 11 Ground connection
- 12 Dead mounting holes
- 13 Through mounting holes



Valve Capacity



Valve Functional Description

The Proflame control is equipped with two automatic shut-off valves. It is possible to read the inlet pressure when both valves are de-energized (OFF in Fig. 1).

When the solenoid EV1 is energized the first gas valve opens. The pilot outlet is enabled (PILOT in Fig. 2).

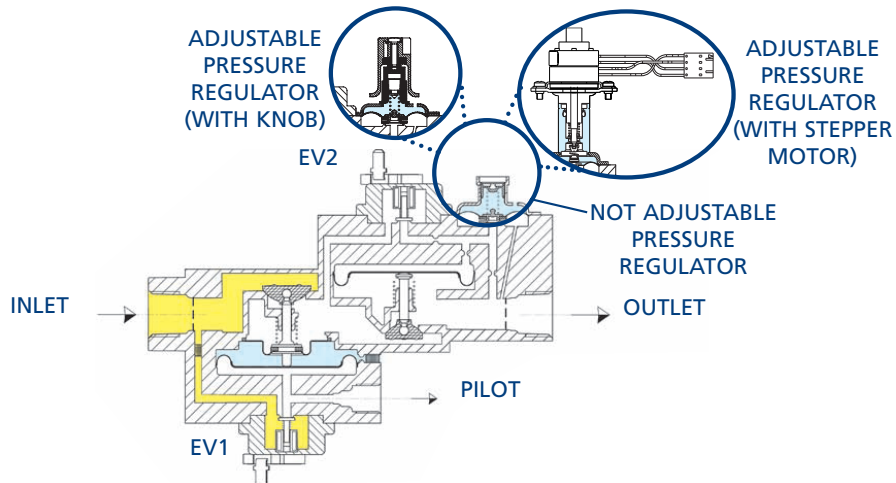
When EV2 is energized the second valve opens and gas flows through the main outlet (OPEN in Fig. 3).

It is possible to measure the outlet pressure on the outlet pressure test point.

The servo pressure regulator system provides superior performance of outlet pressure regulation.

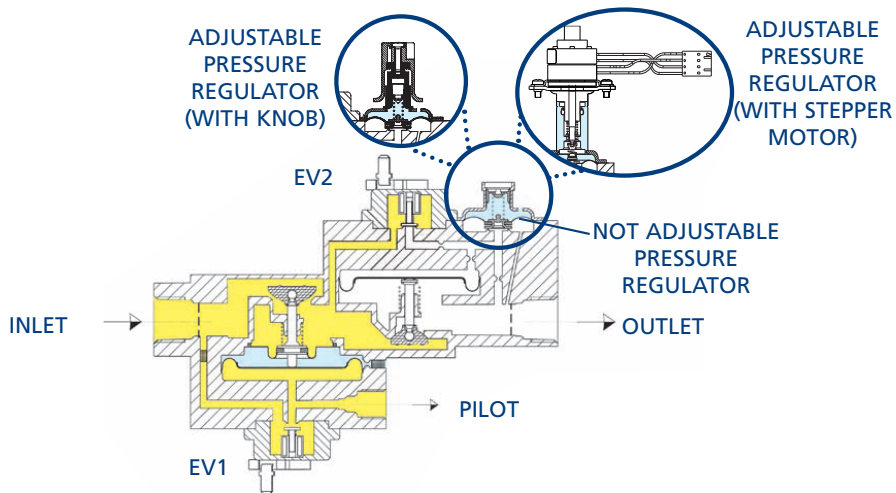
The outlet pressure can be adjusted by a knob (Manual HI-LO version) or by a electrical modulator device.

Configuration



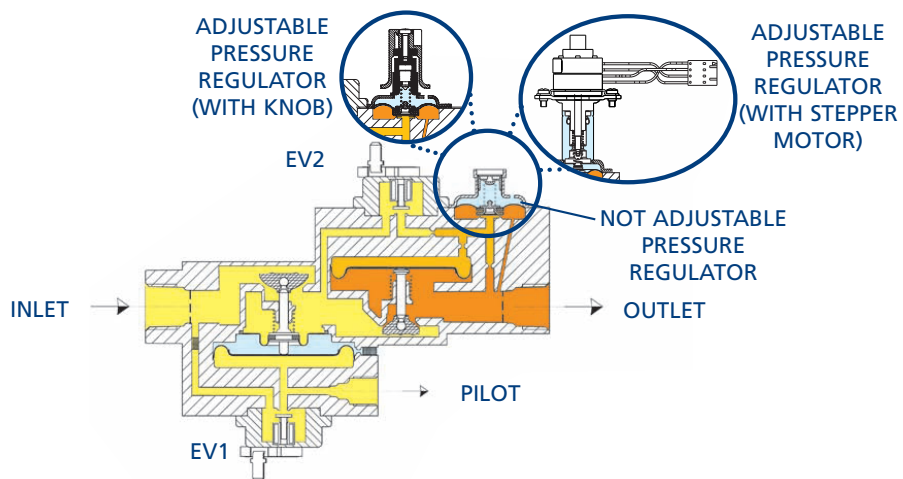
VALVE IN OFF POSITION

Fig. 1



VALVE IN PILOT POSITION

Fig. 2

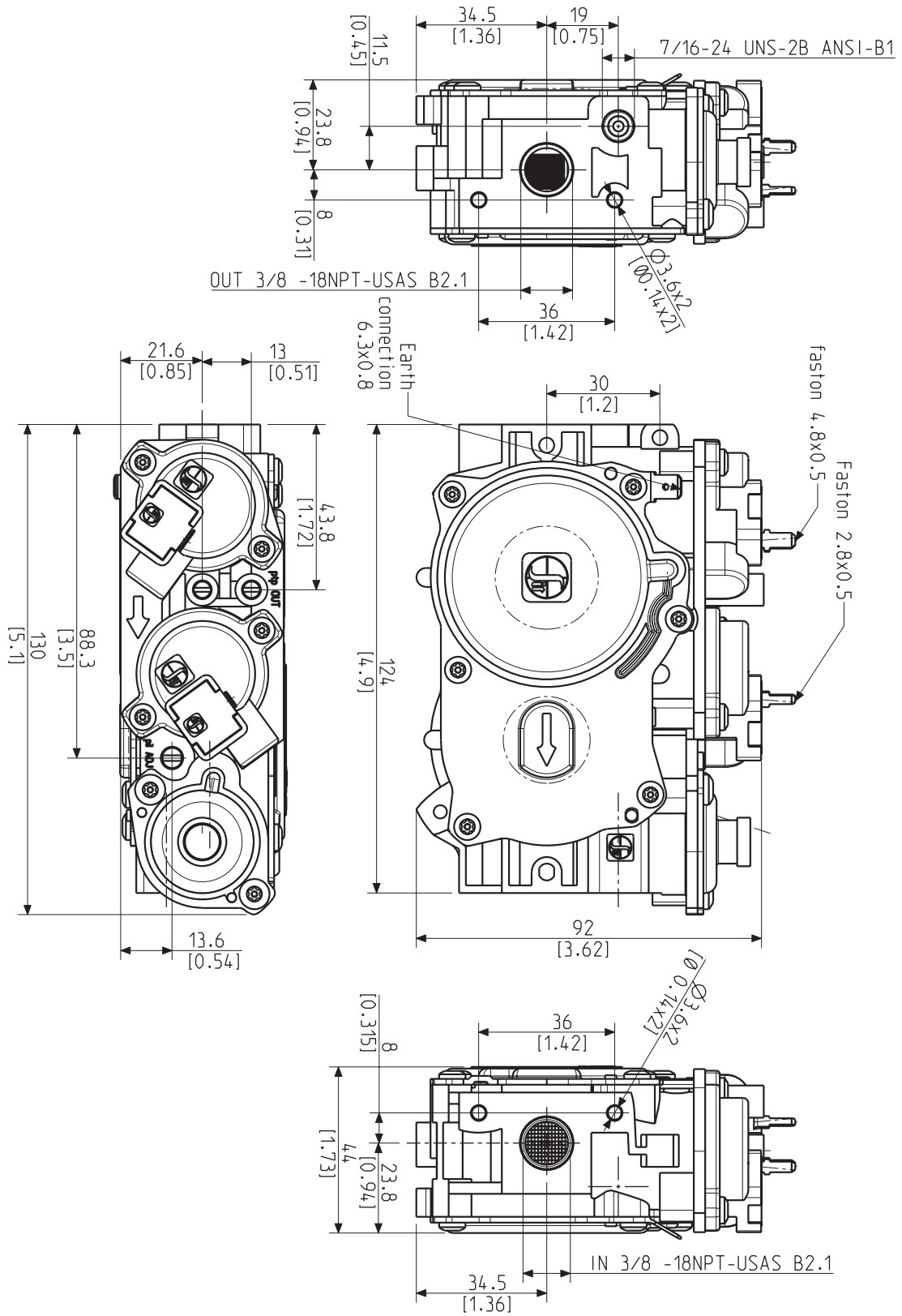


VALVE IN OPEN POSITION

Fig. 3

Valve Dimensional Drawing

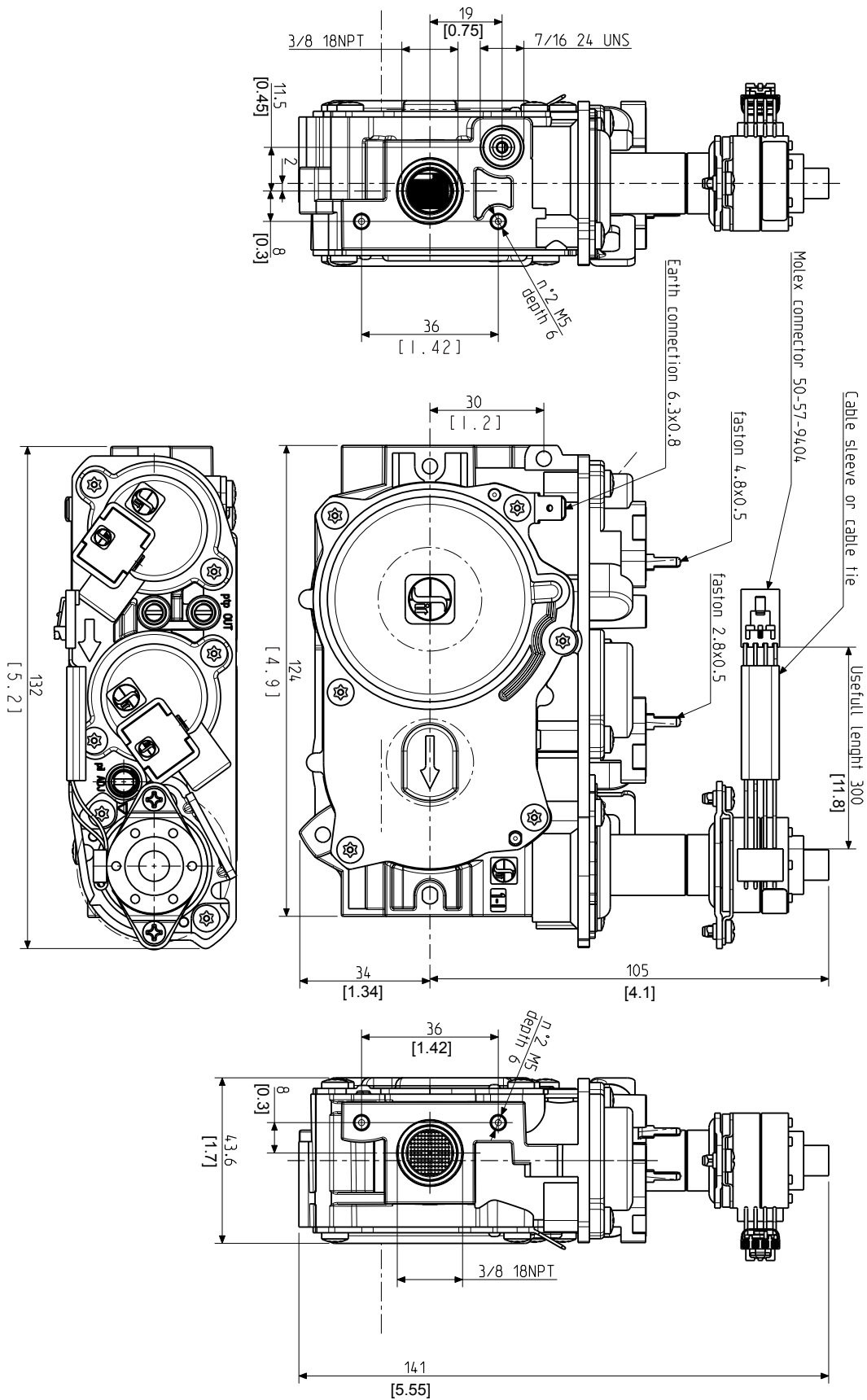
PROFLAME 880



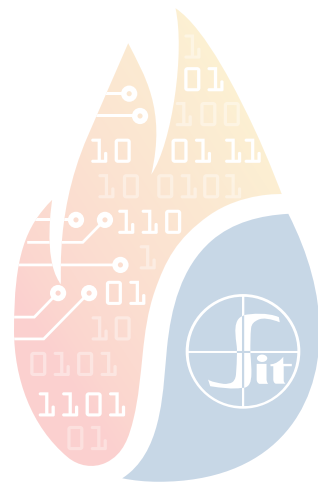
NOTE: ALL THE DIMENSIONS ARE EXPRESSED IN MILLIMETERS (INCHES)

Valve Dimensional Drawing

PROFLAME 885



NOTE: ALL THE DIMENSIONS ARE EXPRESSED IN MILLIMETERS (INCHES)



Proflame[®]



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