



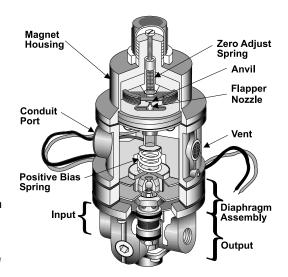
Features

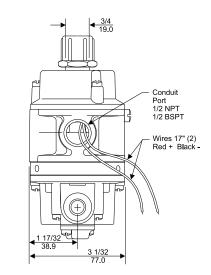
- Low Droop under flow conditions allows improved control of downstream pressure.
- Immunity to Supply Pressure Change permits use of normal plant air.
- Minimal Air Use in dead end service (.05 SCFM) reduces air consumption.
- High Forward and Exhaust Capacity permits increased process speed.
- Transducer can be configured to deliver an output which is directly or inversely proportional to the input.
- Split Range Operation permits two or more functions to be controlled from a common signal source (except 1-5 VDC unit).
- Built in Supply Pressure Regulator eliminates need for a separate regulator.
- Wall or Panel Mounting allows convenient installation.

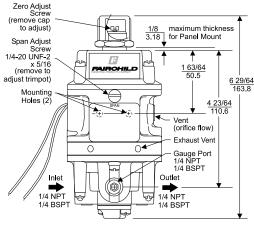
Operating Principles

The Model T5700 is an electro-pneumatic device that converts a current signal to a linear pneumatic output. This device uses a force balance system in which a built-in supply regulator also functions as a pneumatic amplifier. Together the flapper and the nozzle work to control the pressure in the intermediate housing. This pressure acts on a diaphragm assembly which in turns controls the output pressure.



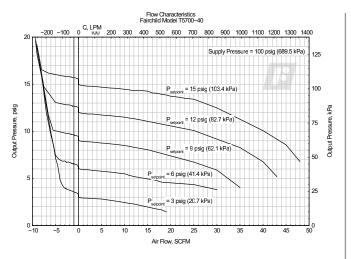




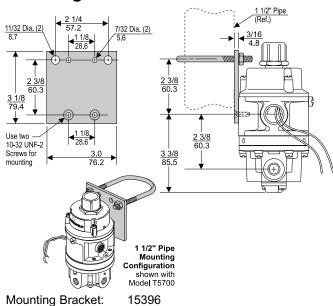




Technical Information



Mounting Kits



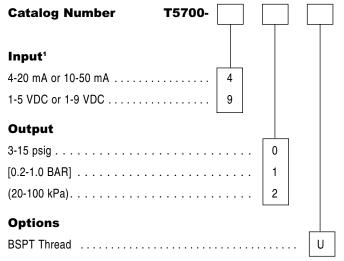
Model T5700 Transducer Kits & Accessories

Mounting Bracket Kits15396 (included with unit)

Installation

For installation instructions, refer to the Fairchild Model T5700 Electro-Pneumatic I/P, E/P Transducer Installation, Operation and Maintenance Instructions, IS-500T5700.

Catalog Information



T5700

Specifications

Output Range

3-15 psig, [0.2-1.0 BAR], (20-100 kPa)

Supply Pressure

18-150 psig, [1.2-10.0 BAR], (120-1000 kPa)

Flow Capacity (SCFM)

17 (28.9 m³/HŘ) for 20 psig, [1.4 BAR], (140 kPa) 47 (79.9 m³/HR) for 120 psig, [8.0 BAR], (800 kPa)

Exhaust Capacity (SCFM)

over 9 (15.3 m³/HR) for downstream pressure 5 psig, [.035 BAR], (.35 kPa) above setpoint

Maximum Air Consumption

 $0.05 (.08 \text{ m}^3/\text{HR})$ with $2\dot{0}$ -120 psig, [1.5-8.0 BAR], (150-800 kPa) supply

Independent Linearity

+0.5% Full Scale

Supply Pressure Effect

+0.3% Full Scale for +50 psig, [3.5 BAR], (350 kPa) change

Terminal Base Linearity

+1.0% Full Scale

Hysteresis & Repeatability

Within 0.1% Full Scale

Input Impedence	Input Range	OHMS
•	4-20 mA	62
	10-50 mA	26
	1-5 VDC	510
	1-9 VDC	1020

Temperature Range

-40°F to +150°F, (-40°C to +65°C)

Materials of Construction

Housing	Aluminum
Orifice	Sapphire
Diaphragm	Buna N Dacron Fabric



Units are factory calibrated for 4-20 mA or 1-9 VDC input, but can be field calibrated for other inputs.