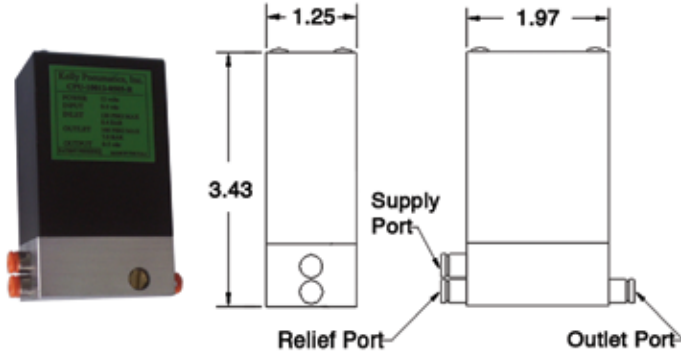


# Low Flow Pressure Regulator



## Internal Transducer Version

Mediums: Air, Non-Corrosive Gases



**Pressure Range:** 0-98 PSI,  
0-14.7 PSI (Vacuum)

**Valve Type:** Relieving or Non-Relieving

**Medium:** Air, Nitrogen, Helium, Water,  
Gasoline, other mediums

**Pressure Accuracy:** +/- 2% or less (Full Span)

**Linearity:** <+/- 1% or less (Full Span)

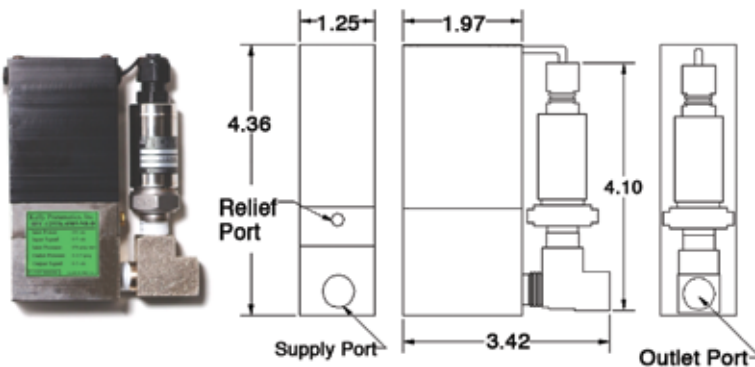
**Response Time:** < 250 milliseconds (Mid Span)

**Maximum Flow:** 6 SLPM at 100 PSIG

**Connections:** #10-32, 5/32" OD Tube Fitting,  
1/8" FPT, or 1/4" FPT  
Supply and Outlet Ports,  
#10-32 Female Exhaust Port (if applicable)

## External Transducer Version

Mediums: Water, Corrosive Gases and Liquids



**Weight:** 320 grams or .70 pounds (with External)  
250 grams or .55 pounds (with Internal)

**Power Required:** 12 and 24 VDC +/- 10%,  
or 110 VAC adapter included  
with Turnkey version

**Input Signal:** 0-5, 1-5, 1-9, 1-10, 0-10  
VDC, or 4-20 milliamps  
Internal: Adj. Potentiometer

**Output Signal:** 0-5 or 1-5 VDC

**Operating Temp:** 0-150 °F or 0-65 °C

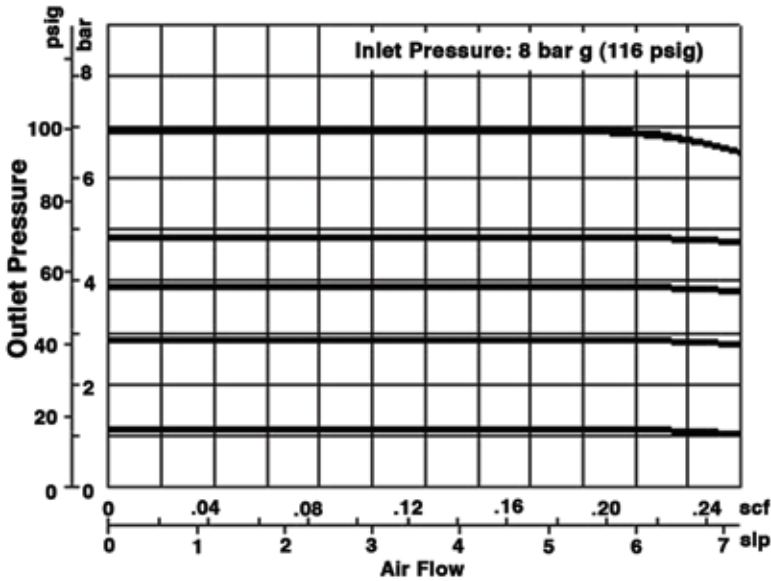
\* All Dimensions are in inches

Kelly Pneumatics, Inc. offers a dual proportional valve design, Electronic Precision Pressure Regulator with I/P transducer control circuitry. Designed specifically for low volume flow rates, this regulator precisely sustains both positive and negative outlet pressures, even during dynamic changes in outlet flow rates, and provides exceptional closed-loop, proportional, output pressure control characteristics. This product can be further customized to include a wall adapter connection for power supply, an inline filter, and a mechanical gauge.

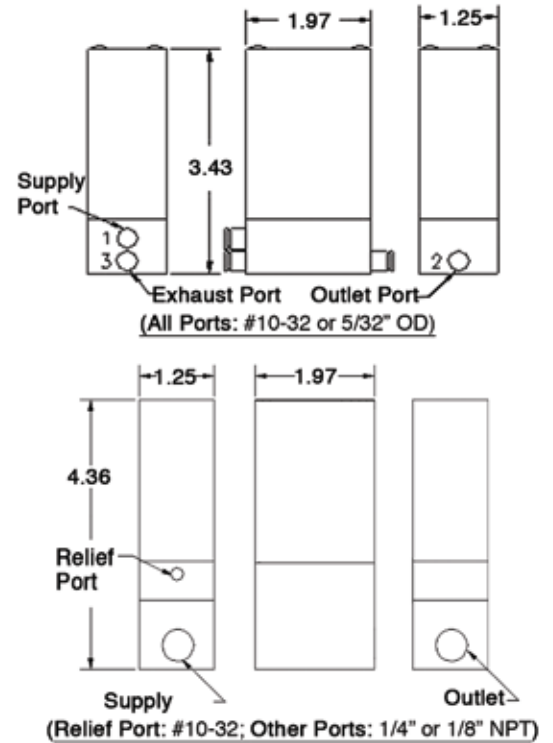
# Low Flow Pressure Regulator



## Typical Performance Characteristics



## Internal Transducer Dimensions

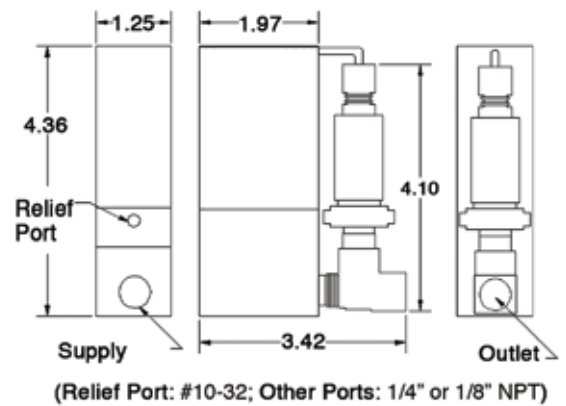


## Wiring Description

Terminal No.	1*	2	3	4
Lead Wire Color	Brown	White	Blue	Black
Wiring	Power Supply	Input Signal	Common (Ground)	Output Signal

\* Omitted with Turnkey Version

## External Transducer Dimensions



## Part Numbering System

**LFR** - [ ] - [ \* ] - [ ] - [ \*\* ]

\* If both options are 00 leave blank and remove preceding dash

\*\* One or more options can be chosen, with each corresponding number added after final dash

### Pressure Range:

- 100 - 0 to 100 psig
- 50 - 0 to 50 psig
- 25 - 0 to 25 psig
- 15 - 0 to 15 psig
- N14 - 0 to -14.7 psig

+

### Power Supply:

- TK - Turnkey (supplied)
- 12 - Wire Leads, 12 volt
- 24 - Wire Leads, 24 volt

### Inlet Signal:

- 00 - no inlet signal
- 05 - 0 to 5 vdc
- 15 - 1 to 5 vdc
- 19 - 1 to 9 vdc
- 010 - 0 to 10 vdc
- 110 - 1 to 10 vdc
- 420 - 4 to 20 ma

+

### Outlet Signal:

- 00 - no outlet signal
- 05 - 0 to 5 vdc
- 15 - 1 to 5 vdc

### Regulator Type:

- R - Relieving
- NR - Non-Relieving

+

### Inlet/Outlet Ports:

- Blank - #10-32
- 5 - 5/32 inch OD
- 4 - 1/4 inch FPT
- 8 - 1/8 inch FPT

### Additional Options:

- Blank - None
- G - Pressure Gauge
- F - Filter

\* All Dimensions are in inches