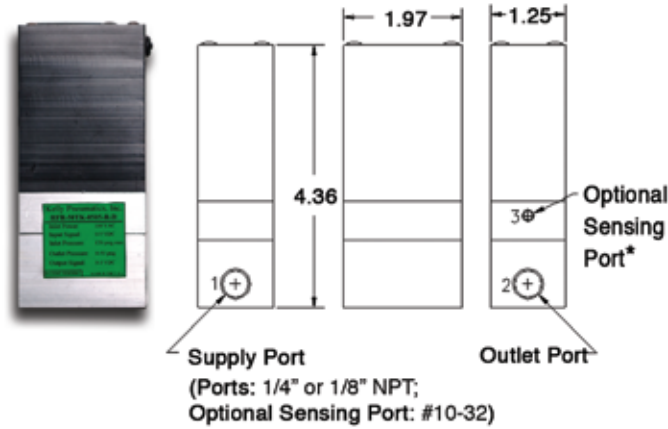


# Electronic Relief Valve



## Internal Transducer Version

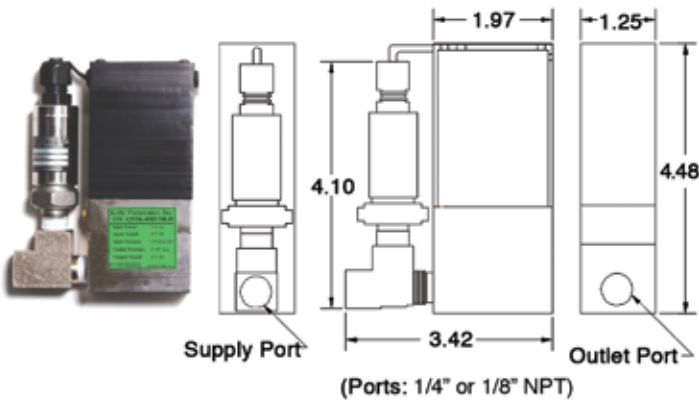
Mediums: Air, Non-Corrosive Gases



\* The internal transducer version offers an **Optional Sensing Port** which reads an incoming pressure from an external source, enabling remote pressure sensing.

## External Transducer Version

Mediums: Water, Corrosive



\* All Dimensions are in inches

Kelly Pneumatics, Inc. offers an Electronic Pressure Relief Valve for high flow applications. This valve offers high-resolution pressure chamber control for applications that require high volume, relieving flow performance. Well used in applications that need to sustain a consistent pressure on the downstream of a pressurized area, this valve varies flow rates automatically subject to dynamic fluctuations of pressure. Unlike traditional mechanical relief valves, the Electronic Pressure Relief Valve offers variable performance based on electrical input supplied either manually or a by a remote electrical controller.

**Pressure Range:** 0-198 PSI

**Valve Type:** 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)

**Flow:** 50-790 SLPM

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

**Weight:** 320 grams or .70 pounds

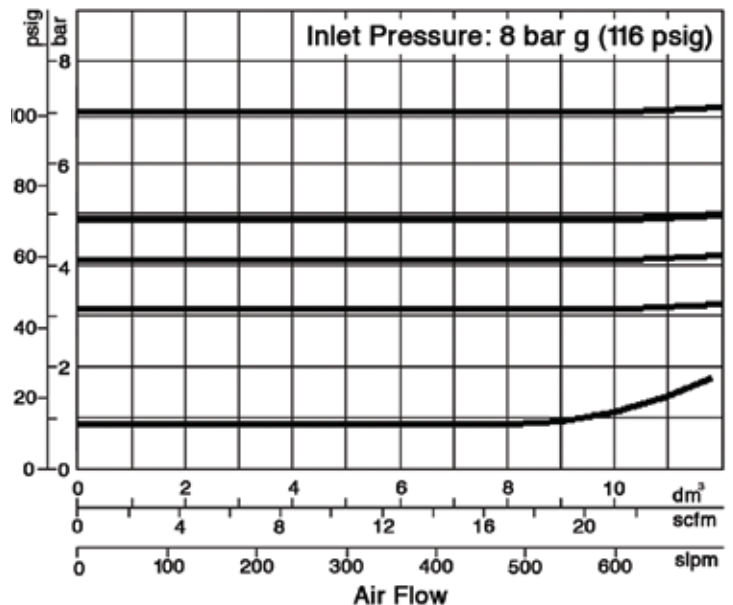
**Power Required:** 12 and 24 VDC +/- 10%,  
or 110 VAC adapter included  
with Turnkey version

**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

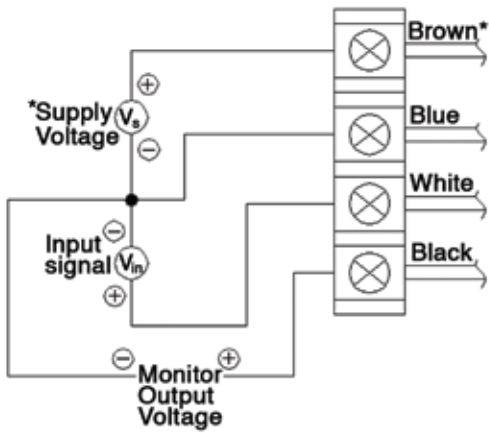
## Typical Performance Characteristics



# Electronic Relief Valve



## Wire Diagram



## 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

## Part Numbering System

ERV



\* 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

+

### 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 - 1/4 inch FPT
- 8 - 1/8 inch FPT

### Additional Options:

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