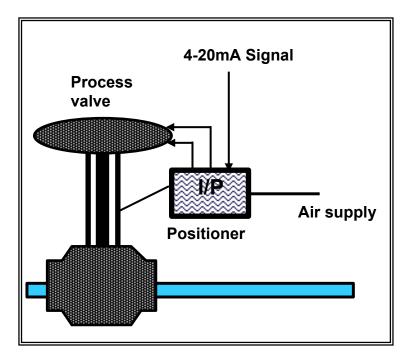
The Type 122E Explosion Proof I/P converter designed for positioner integration, which can typically convert a pneumatic positioner to operate as an electro-pneumatic positioner using proven moving coil and flapper/nozzle technology, with a built in flow regulator to minimize supply pressure effects.

- Low Cost OEM I/P
- Valve Positioner Pilot
- Compact and Rugged
- Specific Application Customising
- Wide Supply Range Available
- ATEX Certified
- = *IP66*

## **TYPICAL APPLICATIONS**



## Industry:

Any industry requiring higher flows or pressures, i.e Pulp and Paper, Water treatment, Chemical and Power Plant

**TYPE 122E** 

**Explosion Proof I/P** 

**Functional Symbol** 

#### Solution:

Accurate control of the position of motion control valves via an actuator with accurate positioner control



### **Technical Data**

### **Pneumatic**

•Output Pressure 3-15psig;

•Air Supply Oil free, dry air, filtered to <5 microns;

20-150 psig (1.4 -10bar)

•Air Consumption <1.5 nl/min typical

•Response Time </=650msecs from 10 to 90% or

</=350ms from 90 to 10% of output pressure into a 5cc load)

•Linearity +/-0.5% of span •Hysteresis +/-0.3% of span

•Temperature Effect Typically less than 0.2% span/deg °C between -40°C to +85°C

•Supply Sensitivity Less than+/- 0.15% of span for supply pressure change

•Connections Customised to suit customers requirements

## **Electrical**

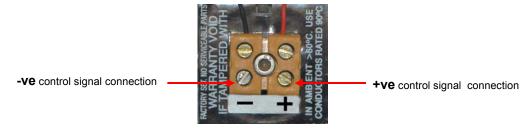
•Electrical Signal 4-20mA (two wire);

•Loop Resistance <250 Ohm

•Failure Mode Signal falls to below 1.7psig (0.12 bar) in <2sec, when input signal falls

•Insulation Resistance >100M Ohm at 850Vdc, electrical terminals to case

•Connections Clamping screw connector terminals.



## **Physical**

•Operating Temperature -40°C to +85°C

•Weatherproofing IP66

•Vibration Output pressure changes less than 2% for 2g sine 20-100Hz,

•Electromagnetic Compliant with EC requirements

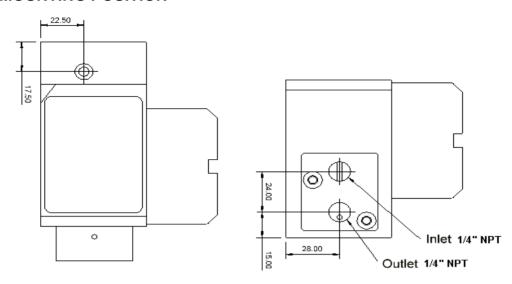
Compatibility EN 50081-1:1994 (Emissions) and EN50082 2:1995 (Immunity)

Material of Construction Aluminium housing with nitrile diaphragms, customer specific enclosures available

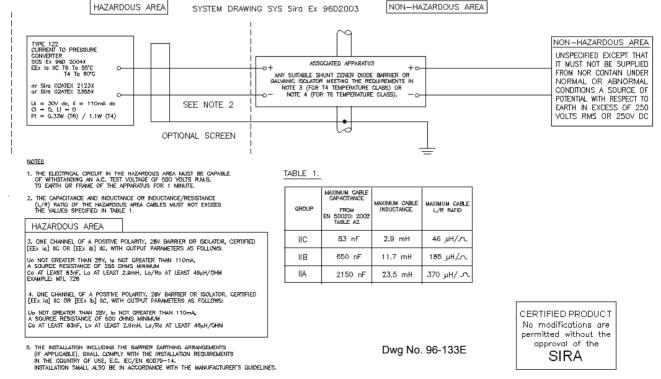
•Mounting Position Any orientation (re-calibration may be required)

### **MOUNTING POSITION**

### PNEUMATIC INSTALLATION



### INTRINISICALLY SAFE SYSTEM INSTALLATION



# **HAZARDOUS AREA CERTIFICATION**

The Type 122E is supplied certified for use in Explosion Proof, Intrinsically Safe and Type nL applications, to ATEX requirements.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

UK Office Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560 Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.