



**Increase  
lifespan and  
performance  
with the  
latest Vibrating  
Motor  
Technology  
from INVICTA.**

## INVICTA L series Vibrators

Including the BLz for ATEX Group II Category 2 D Zones 21 & 22

Dust Ignition Protection IECEx Extb IIIC

For nearly 50 years, we have been manufacturing vibrators to meet the extreme demands of high-speed rotating and reciprocating mechanical systems. Our latest L series has been produced entirely in-house, from the initial design concept through the manufacturing process to the final testing and dispatch of the finished product. By handling all these activities ourselves, we can control the quality of all components at every stage of manufacturing. Therefore, we can confidently state that every vibrator produced by us is inspected and tested to our exacting standards. We are CE certified, and our procedures are audited to ISO 9001 standards.

### Products

**Base Mounted Vibrators** - The BLz Series is suitable for use in non-hazardous atmospheres as well as in Zone 21 and Zone 22 areas where dust is a hazard, as defined by ATEX 95 Directive 95/9/EC. BLz vibrators are interchangeable with equivalent BL series vibrators, which have the same external dimensions and produce the same output force. For use in atmospheres where gases or vapors may be present, Invicta offers two ranges of vibrators: one approved to European standards and one to North American standards. The EBK range is approved for use in ZONE 1 and ZONE 2 areas as defined by ATEX 95 Directive 94/9/EC (Europe), and the ULBK range is approved to Underwriters Laboratory Specification UL674 (North America).

**Single Flange Vibrators** - The SFL range of vibrators is suitable for use in non-hazardous areas on circular sieving or finishing machines.

**Pneumatic Piston Vibrators** - Invicta Piston Vibrator produce a reciprocating linear force when compressed air is supplied through the inlet port. This force is generated by the motion of the nitride hardened piston shuttling from end to end in the cylindrical vibrator body, which is cast from S.G. Iron and has a square mounting base with four fixing holes. Stainless steel bodies are also available for use in special applications. They are available on Air Cushioned, Continuous Impacting and Single Impacting models.



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# INVICTA L Series - VIBRATORS

## BLz Series Vibrators

### Mechanical Assemblies

- All structural components are designed for infinite life
- Frames for the L22, L25 and above are cast from SG iron, while smaller frames are cast from aluminium alloy
- Frames are interchangeable with equivalent K series designs
- Terminal box contains hard foam insert to secure incoming leads. The BLz30 - BLz75 & BL77 base is filled with polyurethane compound
- Rivetted weight labels to give accurate force settings.

### Bearings

- C3 clearance bearings
- Ball bearings on the L03-L22, and L24/25-8/2,-7.5/4,-4/6, are sealed for life. Roller bearings fitted to all other models
- Grease nipples are fitted to the L40-L75.

### Windings

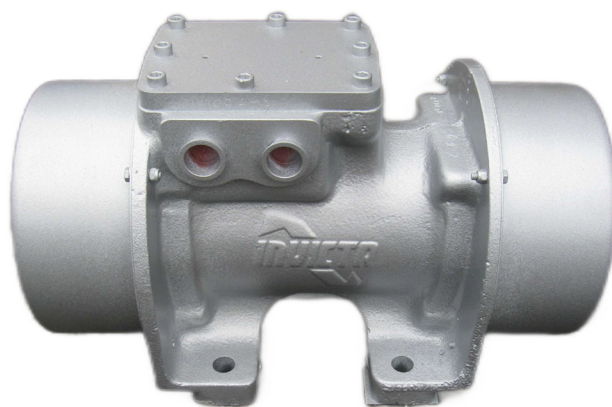
- Tropicalised and resin sealed by rotary trickle impregnation
- Phase barriers
- Up to 690v
- Class F Insulation
- Type PTC 160°C thermistors fitted to L24 and above
- Continuous maximum rated (CMR)
- Conform to low voltage directive 73/23/EEC

### End Covers

- Fitted to base mounted vibrators
- For BLz30 and above cast from aluminium alloy; for BLz03-BLz25 produced from spun steel
- Special finishes and split covers are available on request.

### Base Mounted Vibrators

- All base mounted vibrators are dust and water resistant to IP66, BS EN 60529
- CSA designs
- DIP
- BLz approved for ATEX zones 21 and 22
- EBK approved for ATEX zones 1 and 2
- ULBK approved by Underwriters Laboratories.



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: In-stock

BLz Series Vibrators

Flameproof Vibrators

Pneumatic Vibrators



.....  
: Upon Request

Hydraulic Vibrators

Single Flange Mounted Vibrators

Twin Flange Vibrators

