

Zimmerman Series Pneumatic Balancers

The Ingersoll Rand Pneumatic Balancer **ADVANTAGE**

- ▶ **Precise, strain-free positioning** — Float leaves both hands free to raise, lower, or shift the load with virtually no resistance; no more “hoist control” hit-and-miss spotting
- ▶ **Simple adjustment** — Clear access to air-flow calibration controls allows quick, easy adjustment of the float
- ▶ **Rugged reliability** — For continuous duty with minimal maintenance

PLUS:

- ▶ **Low air consumption** — Approximately 1/8 cfm required per cycle (one fiftieth of that of an air hoist) means very low energy costs
- ▶ **Clean, oil-free operation** — Pre-lubricated design eliminates air line lubrication and oil mist exhaust; ideal for food processing and clean manufacturing environments

Progress is greener with Ingersoll Rand



Z Stop: The optional Z Stop is a patented device that will eliminate the down-drift of suspended loads or tools during shut down or at night when the air supply is shut off. The Z Stop will stop drift within 6 inches (152.4 mm) and put the Balance Air into a mechanically locked position preventing damage to tools or objects below the suspended load. Available for use on all 10 inch (254 mm) diameter units.



Safety is standard

- ▶ Built-in overload protection — The lifted load can never exceed the unit's maximum rated capacity
- ▶ Minimal cable recoil due to loss of load — If the load is accidentally lost, a centrifugal brake (Z brake) automatically stops rapid upward cable travel

Versatile configuration

- ▶ Wide range of capacities up to 2,000 lbs (907 kg)
- ▶ Added protection — The optional Z Stop offers protection against the drifting of loads in the event the main air supply is lost
- ▶ Cable travel — 40 to 120 inches (1016 to 3048 mm) depending on the model
- ▶ Controls — ZA (pendant) controls let you handle varying loads; a BA (single) balance control is ideal for a constant load, and an EA for 2 loads
- ▶ Mounting — Suspension kits for Ingersoll Rand and other enclosed track manufacturers as well as I-beam, patented track, and hook mount
- ▶ CE certification — Meets the requirements for the European community



Z Brake Safety Retraction System (Patent No. 5,522,581):

Standard on all units, prevents violent retraction in the event of a sudden release or loss of load. The brake will also eliminate excessive upward acceleration of a no load hook when the “up” button is pressed in fully.

Suspension lugs: Fits all Ingersoll Rand suspensions and most trolleys from other manufacturers.

Rugged steel housing: All steel housing for added durability

Injection-molded reel: Engineered plastic for excellent durability and wear resistance.

Anti-friction ball screw: Creates smooth rotation path for the cable reel.

Heavy-duty thrust bearing: Absorbs piston force and transfers smooth reel rotation over the ball screw.

Low-friction cable guide (not shown): Ensures smooth cable feed on and off the reel.

Air chamber and piston: Forms the heart of the unit. Air entering the chamber pushes the piston to rotate the spool, wind the cable, and lift the load. Exhausting air lowers the load. Regulating this flow balances the load, creating a zero gravity float.

