



The system is designed to provide an accurate flow rate of materials into a negative or positive pressure process. An accuracy of up to  $\pm 0.5\%$  of set point is available depending on the control system used. Optional volumetric or loss-in-weight rate control offers economic alternatives to satisfy rate accuracy requirements.

A special metering feeder operating inside the pressure vessel is loaded reliably by mass feed through the pressure vessel and delivery tube for controlled flow rate accuracy.

The flow rate is maintained **independently of backpressure variations**. A process that causes a variation to its pressure does not affect the accuracy of the injection rate selected.

An extensive flow rate turndown is available up to 20 to 1 of the maximum required. The turndown may be linked to process parameters to achieve reliable process automation.

The Continuous type system is suitable for processes that cannot tolerate the injection going off line for recharging for a short period. An additional feed vessel is added to the injection vessel, which recharges the material while both vessels are pressure balanced. After recharging the feed vessel is reduced to atmospheric pressure for reloading from a feed store above.

Reliable material feed and pressure tight closure is achieved with our **Inflatek Valve** that ensures long life and operating reliability. Standard valve sizes to 400mm ensure rapid vessel filling to minimise off line periods.

Machine designs are based on computer requirements to satisfy process objectives.

## **Mactenn**

**A Macawber Group Company**

ADVANCED PNEUMATIC CONVEYING & INJECTION SYSTEMS  
VALVES FOR ABRASIVE MATERIALS AND PRESSURE DUTY  
BATCH MIXING AND INGREDIENT CONTROL  
COMPLETE BULK MATERIAL SYSTEM DESIGN AND TURNKEY SUPPLY