

Auto Feed Control with **IRIS VALVE** for Continuous Centrifuge



In traditional manual feeding system, due to different viscosities and varying line pressure result in uneven masseccite feed. The lubrication water remains unchanged for different feed rate to the centrifuge. This causes reduced capacity and higher molasses purity / dilution of molasses. To overcome this

Instruments & Systems has introduced

Automatic Masseccite Feed Control with IRIS Valve for Continuous Centrifugal Machine.



Instruments & Systems
Valve Automation & Control Technology

Auto Feed Control with IRIS VALVE for Continuous Centrifuge



To improve the capacity of continuous centrifugal machine, it requires automation of massecuite feed and water wash.

The IRIS flow control valve (centrally opening as camera aperture) can easily control the massecuite feeding system controls loading the centrifugal (motor load) by adjusting the opening of IRIS Valve.

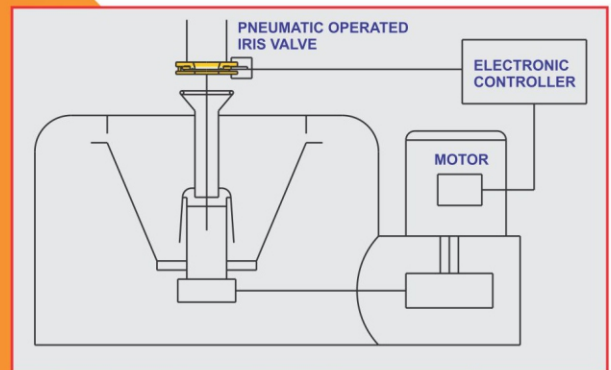
The IRIS Valve provided of size (FN 125 to DN 200) is operated by an electro pneumatic actuator. For a high control precision, the pneumatic actuator is designed for a high number of operation.

To control the desired quantity of water wash needle valves are to be adjusted manually.

Advantages:

- Optimized sugar yield; wash water and steam quantity are set for optimum performance; the quantity of massecuite is corrected.
- Due to IRIS Valve massecuite flow is concentric and finely controlled.
- Optimized centrifugal throughput.
(higher than 10% to 20% of manual control).
- Gentle centrifugal operation for a longer service life.
- No overflow of massecuite in motor trip condition as valve closes automatically in motor off / trip condition.
- Reduced dilution of molasses and direct sugar losses.
- Saves electricity and steam.
- Very user friendly and robust design.
- Easy to install and commission.
- Can be retrofitted easily with the existing panel.

Schematic Drawing



Instruments & Systems
Valve Automation & Control Technology

30 Mohabbewala Industrial Area, Dehra Dun (INDIA)

Phones: +91-135-2641580 Fax: +91-135-2644097

<http://www.instruments-systems.in>

E-mail: info@instruments-systems.com

info@instruments-systems.in

