

**First Time
in India**

AUTO FEED CONTROL WITH **IRIS VALVE** FOR CONTINUOUS CENTRIFUGE



In traditional manual feeding system, due to different viscosities and varying line pressures result in uneven massecuite 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

Energy-Tech Engineers has introduced

**AUTOMATIC MASSECUIE FEED CONTROL
WITH IRIS VALVE FOR CONTINUOUS
CENTRIFUGAL MACHINE .**

**More than
200 machines
working
satisfactorily**



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.

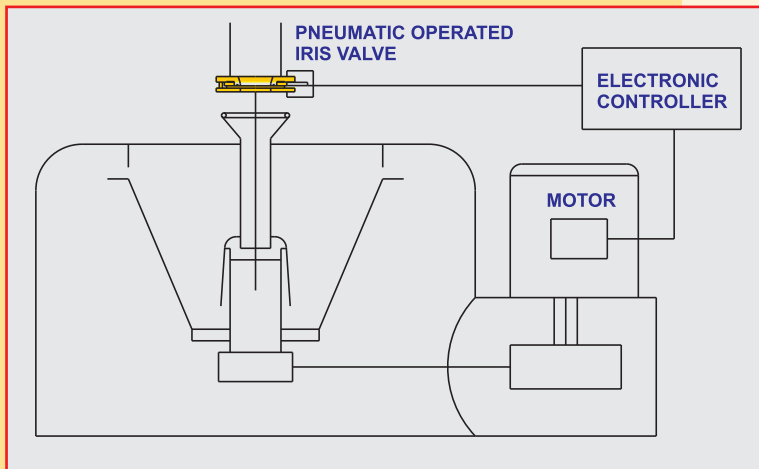
The IRIS flow control valve (centrally opening as camera aperture) can easily control the massecuite feed. The automatic massecuite feeding system controls loading of the centrifugal (motor load) by adjusting the opening of **IRIS valve**.

The **Iris valve** provided (of size DN 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 operations.

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



Schematic Drawing



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



Our Esteemed Customers:

1. NIRANI SUGARS LTD
2. WALCHANDNAGAR INDUSTRIES LTD
3. SURENDRA ENGG. CORPORATION LTD
4. ISGEC HEAVY ENGINEERING LTD
5. UTTAM SUCRO TECH INTERNATIONAL LTD
5. RENUKA SUGARS LTD
6. UGAR SUGAR WORKS
7. VENKATESHWARA POWER PROJECTS LTD
8. SHRI KHEDUT SAHAKARI KHAND UDYOU, BARDOLI
9. SHRI PANDURANG S.S.K. LTD
10. BHIMASHANKAR S.S.K.LTD.

For more information, contact :

 **Energy-Tech Engineers**

Plot No.76, Tiny Industrial Co-op. Estate Ltd., Pisoli Road, Kondhawa Bk.
Pune 411 048 (INDIA) Telefax : +91 20 26932792 Mob.: 9371611783

E-mail: energytechengineers@gmail.com / energytech@vsnl.com

