

FLOTTWEG Inert Gas Purge Unit - Differential Pressure Monitoring

If centrifuges are used to process media whose vapors, when mixed with aerial oxygen generate an explosive mixture, the risk of explosion has to be eliminated by replacing air with inert gas. Generally, pure nitrogen is used for this purpose. Centrifuges and system parts used for the processing of hazardous materials have to be gastight to prevent the exit

of vapors into the atmosphere as well as to avoid the entry of air into the system.

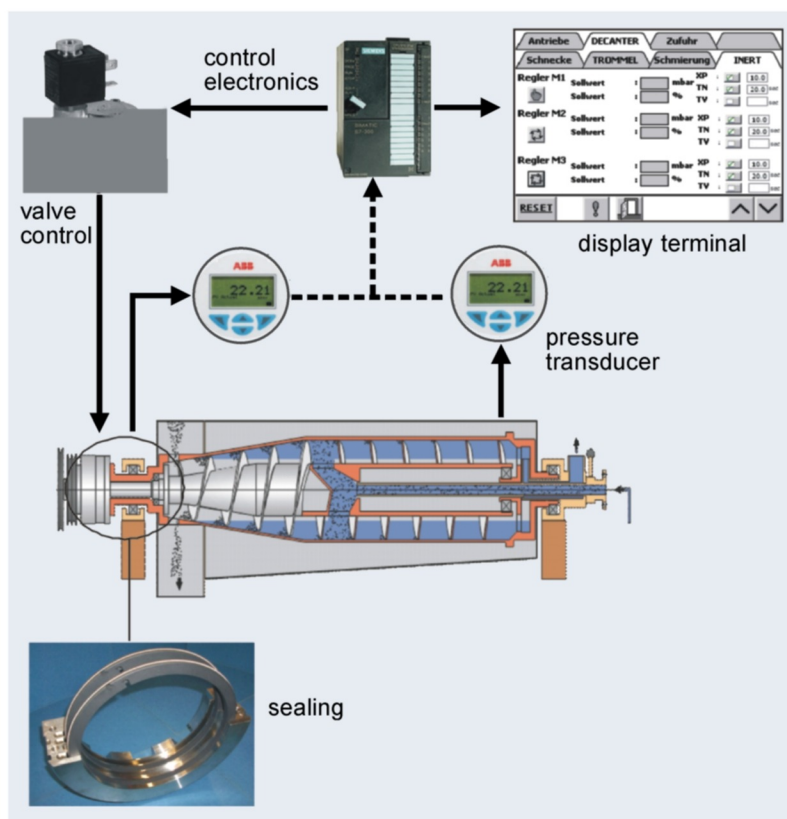
Inert gas is injected at several parts of the centrifuge in order to provide optimal purging and inert gas blanketing inside the centrifuge. The inert gas purge unit manufactured by FLOTTWEG controls the individual inert gas streams.

Differential pressure monitoring with integrated automatic regulation is a special feature of the FLOTTWEG inert gas purge unit. Control valves provide a specific constant blanketing pressure inside the sealed system. The need for manual readjustment becomes unnecessary.



Structure

The components for differential pressure regulation are as follows: Pressure transducer, proportional valves, control electronics; operating terminal and display terminal available for installation in the door of the control cabinet.



Advantages

- High stainless steel
- Compact design
- No manual readjustment of differential pressures by operating personnel necessary
- High availability and operator's safety
- Optimized operating costs
- Minimized inert gas consumption helps to save costs
 - Reduced procurement costs of inert gas
 - Reduced loss of product via exhaust system
 - Reduced costs for disposal of contaminated inert gas
- Constant differential pressure at varying operating conditions (start-up, production, shut-down)
- Reduced wear on shaft-sealings due to a fixed constantly limited differential pressure
- Easy part replacement due to the use of standard components (e.g. solenoid valves, pressure gauges, flowmeter, sensors, etc.)

Appropriate for installation in explosion hazardous areas (ATEX).

Applications:

- All gas-tight centrifuges

Oxidation prevention:

- Beverage industry
- Food industry
- Edible oil

Contamination prevention when processing

- tar
- oil sludge
- industrial waste water

Top quality - designed and manufactured in GERMANY



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