JZ Engineering

# JZ-Analysis-System

## Radio data transmission in vertical filter presses:

**- control of membrane leakage**

**- control of cake thickness distribution**

Illus. 1: flow meter unit (series 4) with radio transmitter and individual connection adapters

Illus. 2: flow meter units mounted in a filter tower

## Goals:

**- avoiding downtimes of filter presses by a fast locating of broken membrane plates**

**thus increasing production capacity**

**- saving of squeezing medium and energy considering environmental aspects**

**- no contamination of filtrate or filter cake by the squeezing medium**

**- locating of blocked sludge inlets reduces the risk of broken plates**

**- improvement of cake washing**

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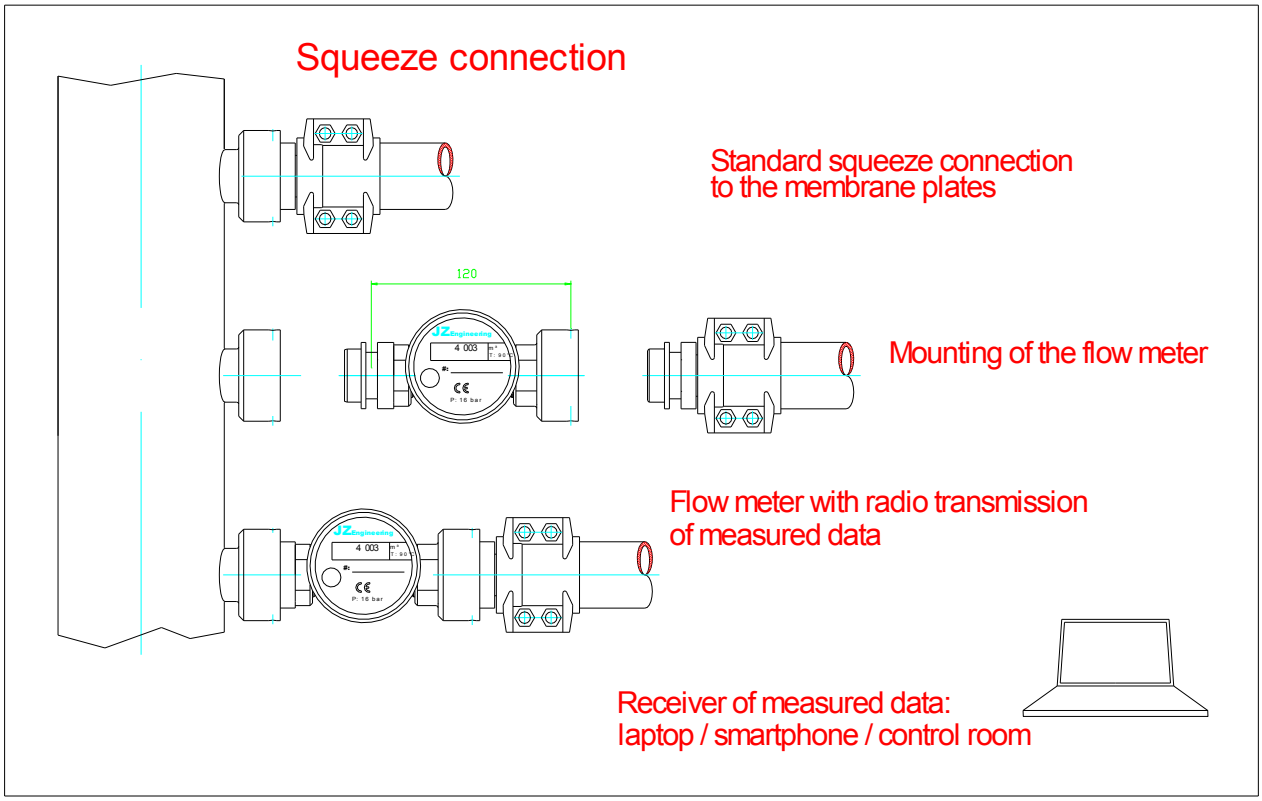

Illus. 3: mounting of the flow meter units

## Our advantages:

- **the flow meter is protected against environmental influences according to IP68**
- **reliable function for water, oil or air as squeezing medium**
- **the flow meter is designed for a squeeze pressure of 16 bar**
- **solid particles in the squeezing medium up to a diameter of 1,5 mm do not restrict the function**
- **the units are approved for a squeezing medium temperature of up to 90 °C**
- **Recording the volumes of squeezing medium permits conclusions regarding cake thickness and cake washing results**
- **the measured data are transmitted to a PC via radio**

Protection in compliance with:
PCT/EP2019/069359



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Illus. 4: display in the analysis program

# Analysis:

- **contactless radio data transmission of measured squeeze volumes to a data memory**
- **analysis software can be called up via laptop or smartphone**
- **determination of the period to be monitored**

**➔ display of three diagrams:**

**-Volume Difference:**
**display of the measured squeeze volume in the determined period for each plate**

**-Volume:**
**display of the chronological sequence of squeeze flows into all plates**

**-Volume Flow:**
**display of the chronological sequence of the flow rate of the squeezing medium for all plates**

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