Fluidless pressure transmitter for sanitary process

Application: Tank pressure monitoring

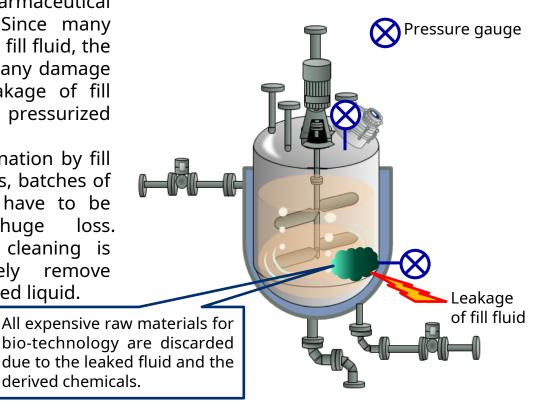
Products: EJAC60E (Fluidless Pressure Transmitter)

Introduction

Pressure gauges are used for tank level and pressure monitoring in food pharmaceutical and manufacturing plants. Since many pressure gauges contain fill fluid, the user must be careful of any damage to diaphragms and leakage of fill fluid, especially during pressurized spray cleaning cycles.

In the event of contamination by fill into the process, batches of fluid product may have to be discarded, resulting in a huge In addition, thorough cleaning is completely required to contaminants of the leaked liquid.

Example: Tank Level Measurement at **Bio-Chemicals Factory**



□ Proposal

YOKOGAWA's Fluidless-type Sanitary Pressure Transmitter "EJAC60E" reassuring structure for food, beverage and pharmaceutical industries.

- Fluidless design eliminates possibility of product contamination.
- Robust sensor design has High Pressure and High Temperature specification capable of withstanding rapid cycling of both Pressure and Temperature.

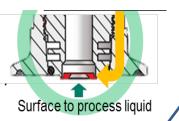
Ideal pressure transmitter for tank level and pressure measurements at CIP and SIP lines.

EJAC60E component: **EJA560E Fluidless Pressure Transmitters** Aluminum housing (left) & Stainless housing (right)

□ Features of EJAC60E

(= EJA560E + C10SA adapter)

 The sensor has a robust diaphragm design for 25 MPa (3600psi) burst pressure reducing the risk of pressure transmitter failures due to diaphragm damage.



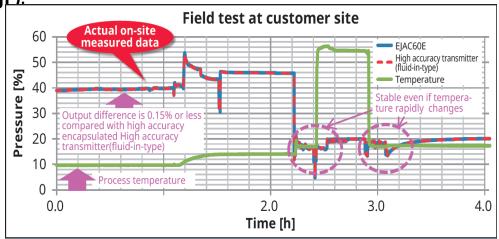


 FieldMate (Hart communicator) enables user friendly parameterization with enhanced diagnostics.

Strain gauge pressure element without fill fluid

• Transmitter performance exceptionally stable for high temperature steam. Continuous operation is possible at process temperature up to 150 degC (302





Test Data: Minimized output error and stable output regardless rapid temperature changes during CIP

□ Other details of EJAC60E

- Plenty of process connection (C10SA)
 - 16 hygienic seal multi-adapter structures, including ISO, union, in-line and flash
- Resistant to excessive pressure
 - The wetted sensor part is a reinforced type SUS 329 J 14 L.
- Resistant to condensation

High moisture resistance of special moisture-proof film + coating More than 20 times longer than other manufacturers in dew condensation tests

Steam resistant

The sensor is formed by a sputtering method, and there is no aging deterioration of the joint. The electrode is fused with metal to achieve 200,000 steam cycles of durability.

Yokogawa Electric Corporation

YOKOGAWA ELECTRIC CORPORATION

9-32, Nakacho 2-chome, Musashino-shi, Tokyo 180-8750, Japan

YOKOGAWA CORPORATION OF AMERICA

12530 West Airport Blvd, Sugar Land, Texas 77478, USA

YOKOGAWA EUROPE B.V.

Euroweg 2, 3825 HD Amersfoort, The Netherlands

YOKOGAWA ENGINEERING ASIA PTE. LTD.

5 Bedok South Road, Singapore 469270, Singapore

YOKOGAWA MIDDLE EAST & AFRICA B.S.C.(c)

P.O. Box 10070, Manama, Building 577, Road 2516, Busaiteen 225, Muharraq, Kingdom of Bahrain

All Rights Reserved, Copyright©2017, Yokogawa Electric Corporation

