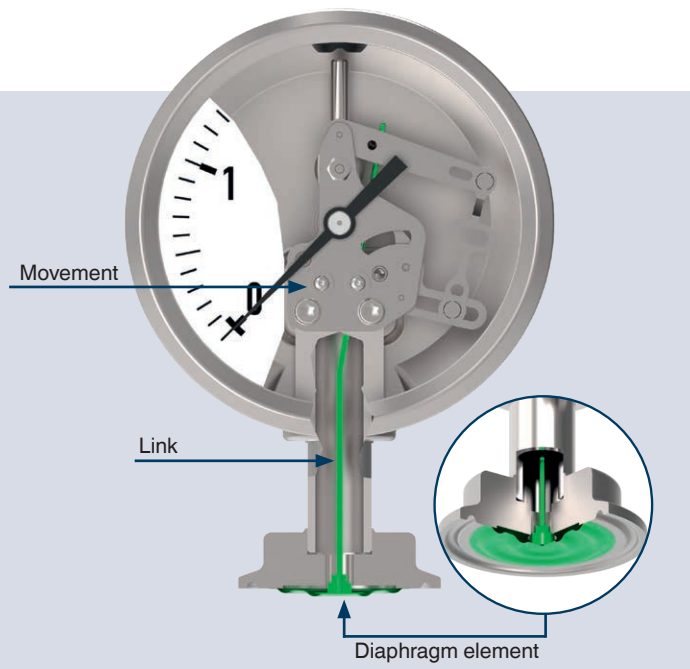


# Applications

- Mechanical pressure display on pipelines, fermenters, bioreactors and vessels
- Pressure/vacuum monitoring during cleaning, sterilisation, pressure testing
- For gases, compressed air, vapour; liquid, pasty, powdery and crystallising media

## Measuring principle of mechanical diaphragm pressure gauges



# Hygienic pressure measurement

- For
- Pharmaceutical industry
  - Biotechnology
  - Food and beverage production



Sanitary applications

[www.wika.de](http://www.wika.de) > Industries > Pharmaceuticals & biotechnology



YouTube



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## Pressure displays in hygienic design



Smart in sensing

# Safe pressure measurement

## Reduction of contamination risks

### High-quality mechanics

- “Dry measuring cell”
- Purely mechanical measuring principle



**Your benefit:**  
No contamination with transmission fluid

### Robust and high overpressure safety

- Proven diaphragm element measurement technology
- Overpressure safety up to 5 times the nominal pressure
- Durable hardened diaphragm element material

**Your benefit:**  
The danger of damage to the flush diaphragm element is clearly reduced

### Easily cleanable

- Hygienic design
- Suitable for CIP and SIP
- For wash-down areas



**Your benefit:**  
Easy and quick cleaning

### Autoclavability

- Fully autoclavable
- Sterilisable with saturated steam



**Your benefit:**  
Time saving, since the measuring instruments can be fitted just before the sterilisation

# Diaphragm pressure gauges for the manufacture and transport of high-quality media

## Flush diaphragm pressure gauge

- Easy-to-read, large display
- For high tanks and horizontal pipelines



PG43SA-S

## Compact flush diaphragm pressure gauge

- Compact, patented design
- For small transport vessels and vertical pipelines



PG43SA-C

Patent applied for in various countries, e.g. DE 102008042455

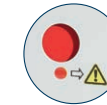
## Pressure gauge with integrated diaphragm monitoring

- For the highest safety
- Continuous diaphragm monitoring
- Second barrier for the hermetic separation between process and atmosphere

### Status display



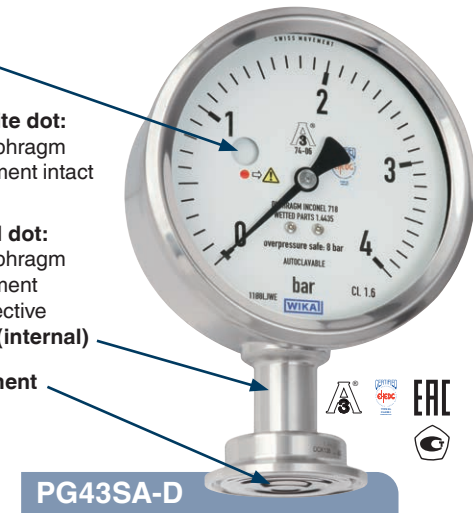
**White dot:**  
Diaphragm element intact



**Red dot:**  
Diaphragm element defective

### Second barrier (internal)

### Diaphragm element



PG43SA-D

Patent applied for in various countries, e.g. DE 102016005568, US 2016349128A1, CN 106197792

### Your benefit:

- No undetected diaphragm rupture
- No escape of bioactive substances into the atmosphere
- No contamination of the process medium through ambient particles