

# Diaphragm Seal Repair And Services

Giving pressure instrument second life



**HIKAR TECHNOMATION PVT. LTD.**  
WE AUTOMATE

## Replacement service for diaphragm seal systems with process transmitters



We are now offers a profitable replacement service both for its own diaphragm seal systems and also for those from other recognized manufacturers.

Diaphragm seal systems are used for demanding measuring requirements with temperatures of  $-90\text{ }^{\circ}\text{C}$  up to  $+400\text{ }^{\circ}\text{C}$  in the process industry. The diaphragm seal assemblies protect the process transmitter from aggressive, corrosive, heterogeneous, abrasive, highlyviscous or toxic media.

## Example of Damaged Diaphragm Seals



Diaphragm is "blown up"

Sometimes a diaphragm is can be "blown up". This caused by a high pressure water jet stream directed at the diaphragm, but it can also be a sign that the application has leaked and/or is on a vacuum. Extra care should be taken into account for installation, mounting and/or maintenance to prevent this problem from recurring.



Diaphragm is corroded

Some processes are so aggressive that they corrode the diaphragm material. A correct selection of diaphragm material ensures a longer lifetime. Nasha can assist and advise in making the selection.



Process medium gets behind the diaphragm

When the diaphragm is damaged and the process medium gets behind the diaphragm a hazardous situation can exist. Because the complete system stays more or less liquid filled and continues to transmit a pressure

### ➤ Damaged (dents) diaphragms

The diaphragm has a thickness of only 75 micron and thus transmits the pressure accurately. However, it is also very sensitive and vulnerable and needs to be handled with care. In case the diaphragm is dented, it no longer gives a correct reading. A renewal of the Diaphragm Seal is the solution. In the example of an extended type the diaphragm can be removed, the flange cleaned and machined, and a new diaphragm is welded to it, then, the complete application is mounted and filled and tested. The instrument is as good as new.



Development of customer specific requirements



For specific applications, Our develops together with the customer a joint solution for a “measurement challenge”. Recently a customer asked us for a specific construction due to the limited space in the plant. Here, the transmitter was placed in the radius of the Diaphragm Seal flange instead of the standard construction where the instrument is placed axial to the flange.

**Hikar Technomation Pvt. Ltd.**

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