



# GENERAL INSTRUCTIONS FOR THE INSTALLATION OF DIAPHRAGM SEAL ASSEMBLIES





Touch the diaphragm if at all possible.

Let the diaphragm come into contact with any sharp objects.





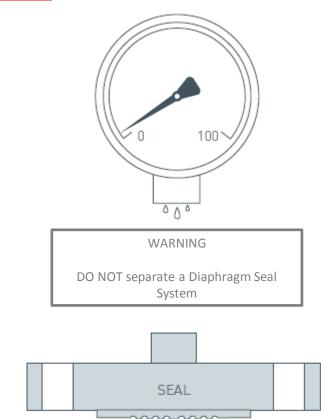
Place exposed diaphragms directly onto the floor or worktops.





## GENERAL INSTRUCTIONS FOR THE INSTALLATION OF DIAPHRAGM SEAL ASSEMBLIES (CONTINUED)

# WARNING

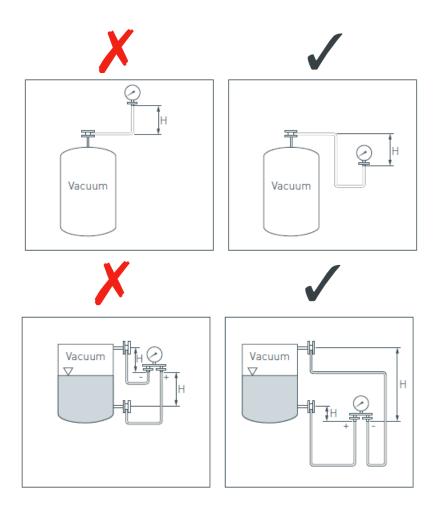


- 1. If separated the instrument will fail and will need to be returned to BKW for re-assembly, re-filling and re-calibrating.
- 2. No attempts should be made to remove a pressurised seal instrument the pressure system must be totally relieved or isolated.
- 3. Goods returned to BKW must have a COSHH Cleanliness Certificate, where appropriate, to show that the goods have been properly decontaminated.

## VACUUM APPLICATIONS

### WARNING

The negative pressure head in the instrument capillary added to the negative process pressure can be greater than -1 bar. This is not possible and the instrument will not function correctly, also the diaphragm can be damaged beyond repair.



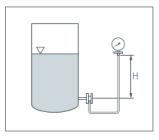
## INSTALLATION OF INSTRUMENTS FOR LEVEL APPLICATION

Measurement H not to exceed: 7 metres for fill types:

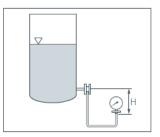
Silicon Oils -KN2, KN3.2, KN17 Vegetable Oil -KN13 Glycerine Oils - KN7, KN12 White FDA Hygienic Oil - KN62 Halocarbon Inert Oil - KN21

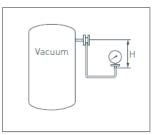
4 metres for fill type:

OPEN VESSEL Instrument above point of measurement



OPEN VESSEL Instrument below point of measurement





SEALED VESSEL

Absolute pressure, instrument must always be below point of measurement 'H' usually = 200mm

### INSTALLATION OF INSTRUMENTS FOR LEVEL APPLICATION (CONTINUED)

Measurement H not to exceed: 7 metres for fill types:

Silicon Oils -KN2, KN3.2, KN17 Vegetable Oil -KN13 Glycerine Oils - KN7, KN12 White FDA Hygienic Oil - KN62 Halocarbon Inert Oil - KN21

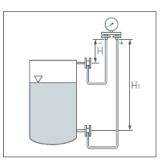
4 metres for fill type:

#### SEALED VESSEL

Differential instrument above upper point of measurement. Not suitable for vacuum.

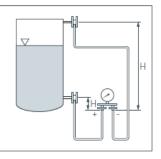


Beware H₁ measurement – see above.



#### SEALED VESSEL

Differential instrument below lower point of measurement. Suitable for vacuum.

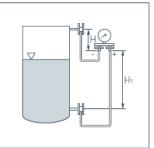


#### SEALED VESSEL

Differential instrument between points of measurement. Not suitable for vacuum.



Beware H<sub>1</sub> measurement – see above.



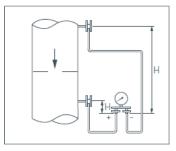
# INSTALLATION OF INSTRUMENTS FOR FLOW MEASUREMENT & FILTER MONITORING

Measurement H not to exceed: 7 metres for fill types:

Silicon Oils -KN2, KN3.2, KN17 Vegetable Oil -KN13 Glycerine Oils - KN7, KN12 White FDA Hygienic Oil - KN62 Halocarbon Inert Oil - KN21

4 metres for fill type:

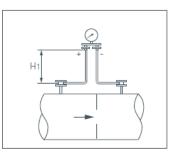
Suitable for vacuum

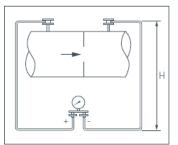


Not suitable for vacuum



Beware H<sub>1</sub> measurement – see above.

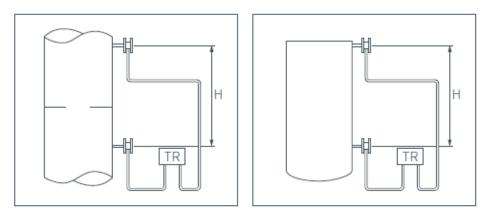




Suitable for vacuum.

## INSTRUMENT OUT OF RANGE

## WARNING



Make sure the installation does not take the instrument out of its adjustable range. Maximum Instrument Range > H x Specific Gravity (Fill Fluid)

#### COMMON FILL FLUID SPECIFIC GRAVITIES (S.G.FILL)

Fill Fluid		Specific Gravity (S.G.) G/CM <sup>3</sup>	Temperature °C
Silicon Oil	KN 2	0.96	25
Silicon Oil	KN 17	0.914	20
Silicon Oil	KN 3.1	1.07	20
Silicon Oil	KN 3.2	1.07	20
Halocarbon	KN 21	1.968	20
Glycerine	KN 7	1.26	20
Glycerine	KN 12	1.22	20
Vegetable Oil	KN 13	0.94	15
White FDA Hygienic Oil	KN 62	0.851	20