



Parto Sahand Ara

ACT CAPILLARY

Accessory Capillary Tube





peressure capillary tube model: ACT

Definition

Diaphragm seals, also known as chemical seals or remote seals, are used for pressure measurements when the process medium should not come into contact with the pressurised parts of the measuring instrument.

A diaphragm seal has two primary tasks:

1. Separation of the measuring instrument from the process medium
2. Transfer of the pressure to the measuring instrument

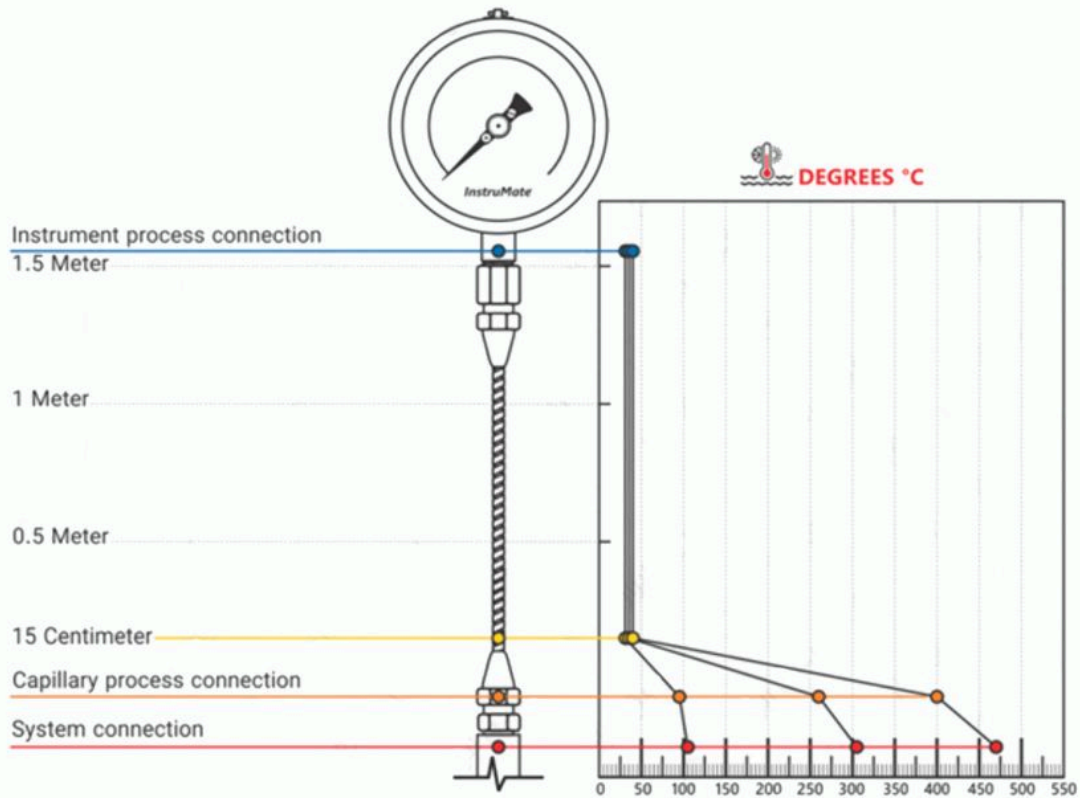


Principle

- The process side of the seal is isolated by a flexible diaphragm. The internal space between this diaphragm and the pressure measuring instrument is completely filled with a system fill fluid. The pressure is transmitted from the measured medium by the elastic diaphragm into the fluid and from there to the measuring element, i.e. to the pressure measuring instrument or the transmitter.
- In many cases, between the diaphragm seal and pressure measuring instrument, a capillary is connected in order (for example) to eliminate or to minimise temperature effects from the hot fluid to the measuring instrument. The capillary affects the response time of the overall system.
- Diaphragm seal, capillary and measuring instrument form a closed system. The sealed filling screws on the diaphragm seal and the measuring instrument must therefore never be opened, since the function of the system is affected following any escape of filling liquid!
- The diaphragm and the connecting flange are the elements of the system which come into contact with the medium. Therefore, the material from which they are made must meet the relevant requirements in terms of temperature and corrosion resistance.
- If the diaphragm is leaking, the system fill fluid can enter the medium. For food processing applications, it must be approved for contact with food. In selecting the fill fluid, the factors of compatibility, temperature and pressure conditions in the medium are of crucial importance. A variety of fluids are available which can cover the temperature range from $-90\text{ }^{\circ}\text{C}$ to $+400\text{ }^{\circ}\text{C}$.



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Order Code

ACT Configuration	
1	Process Connection
	15M G 1/2" male
	15F G 1/2" female
*	Other - please specify
2	Capillary length
	02 2 meter
	05 5 meter
	10 10 meter
*	Other - please specify
3	Instrumen Connection
	15M G 1/2" male
	15F G 1/2" female
*	Other - please specify
4	Material
	S 316L SS (1.4435)
	P PTFE
*	Other - please specify

Additional order details _____

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