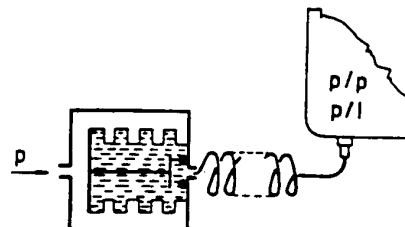


PRESSURE TRANSFER DEVICE

The pressure transfer device provides protection for instruments with pressure inputs (e.g. pressure gauges, pressure switches, local pressure controllers) by separating the gas, steam or liquid to be measured from the sensing element of the instrument connected. This may be necessary in case of aggressive or high-temperature media, or, when easily solidifying liquids are to be measured involving the risk of clogging. The sensing element of the pressure transfer device consists of a bellow made of corrosion resistant steel, with an air-free liquid filling.



If any leakages occur in the filled system containing the (receiver) instrument connected, the valve of the device will close thus preventing the separating bellow from suffering permanent deformation. The pressure transfer devices are also available with overpressure protection; in such cases an overpressure barrier type 2342- will be installed between the pressure transfer device and the receiver instrument in order to protect the receiver instrument from the pressure load exceeding the preset closing pressure.

MMG AM supplies the pressure transfer device (with or without overpressure protection) integrated with pressure and differential pressure measuring instruments also manufactured by the MMG AM, where the volume and changes in volume may not exceed the values specified. The pressure transfer devices are also available filled without receiving instruments. In such cases the customer will be in charge of connecting and filling the receiving instrument. The liquid, necessary for filling is transported by MMG AM.

Specification

Type number

2 3 4 0 - 0 - -

	Filling liquid		Permissible load	Process interface	Length of capillary tube	Closing pressure setting range		
with receiving instrument	1	ethylene glycol+water	1	210 bar	flange for deep-boring	0	without overpressure protection	
	2	silicone oil "A"		40 bar				flange
	3	silicone oil "B"						
without receiving instrument	5	ethylene glycol+water	3	400 bar	metal pipe dia.6x1 mm	1	2.75... 12	
	6	silicone oil "A"						NPT 1/4 female
	7	silicone oil "B"						NPT 1/2 female
					2	12 ... 44		
					3	44 ...275		
					4			

	Filling liquid		
	ethylene glycol+water (74/26 vol. %)	silicone oil	
		"A"	"B"
Ambient temperature	-30 ... +70 °C	-40 ... + 70 °C	-61 ... + 70 °C
Temperature of the medium to be measured	-30 ... +80 °C	-40 ... +150 °C	-61 ... +100 °C
Permissible additional volume to be connected	≤ 40 cm ³	≤ 25 cm ³	
Volume change of the sensing element connected	≤ 5 cm ³	≤ 2.5 cm ³	

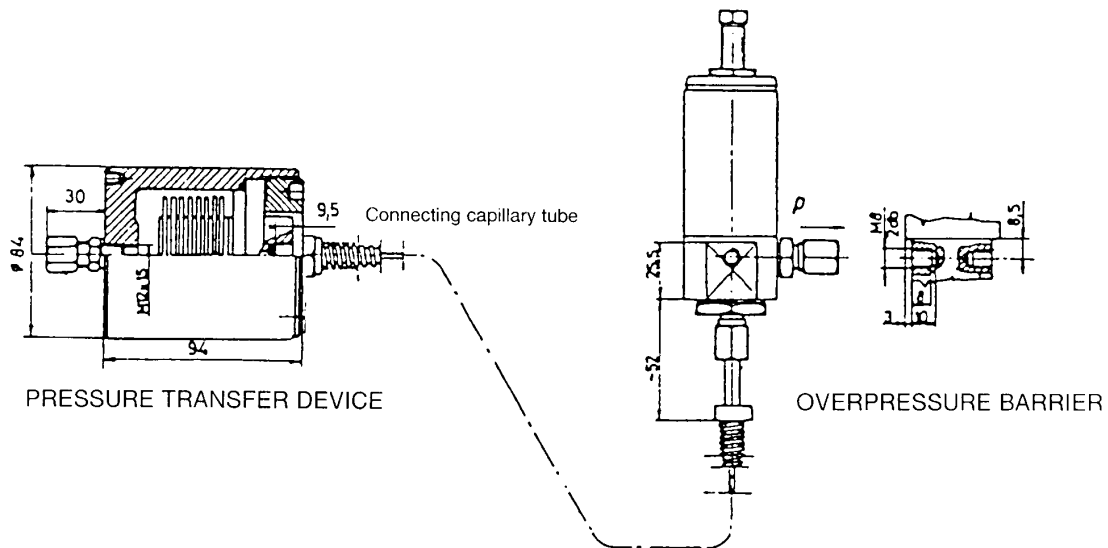
Material of the parts in contact with the liquid to be measured

- bellows, pressure transfer case and flange KO 36
- flange for deep-boring KL 7D
- sealing rings ("O"-rings) fluoro rubber (viton)

Permissible vibrations 0...500 Hz, 1 g

Design outdoor

Mounting position indifferent



Outline drawing

Ordering information

Specify the type number of the device selected, the medium to be measured, and in the case of overpressure protection the closing pressure to be preset.