

Title (en)
HYDRAULIC PRESSURE TRANSMISSION DEVICE, AND PRESSURE SENSOR HAVING A HYDRAULIC PRESSURE TRANSMISSION DEVICE

Title (de)
HYDRAULISCHER DRUCKMITTLER UND DRUCKAUFNEMER MIT HYDRAULISCHEM DRUCKMITTLER

Title (fr)
DISPOSITIF DE TRANSMISSION DE PRESSION HYDRAULIQUE ET CAPTEUR DE PRESSION DOTÉ D'UN DISPOSITIF DE TRANSMISSION DE PRESSION HYDRAULIQUE

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Application
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Abstract (en)
[origin: WO2022042959A1] The invention relates to a pressure transmission device for transmitting the pressure of a process medium, comprising: a main part (1); and a separating membrane (3) which is secured to the main part, wherein a pressure chamber (4) is formed between the separating membrane and the surface, said pressure chamber communicating with a hydraulic path (5) via an opening (6) in the surface; the separating membrane can be supplied with the process medium from a first separating membrane side (33); the pressure chamber and the hydraulic path are filled with a transmission fluid (7); the separating membrane is pressure-tightly connected to the main part; and the separating membrane has a central region (12). The pressure transmission device additionally comprises a temperature sensor (20) and a mount for the temperature sensor, and the temperature sensor (20) is at least partly introduced into the mount or is attached thereto. The mount (130) is introduced into and arranged in a central cavity (80, 82) in the main part behind the central region (12) of the separating membrane (3) in such a way that a surface of the mount (133) facing the separating membrane (3) lies on a plane relative to the separating membrane in the central region such that the surface of the mount (133) acts as an abutment for the separating membrane (3) when pressure is applied.

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Citation (search report)
See references of WO 2022042959A1

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