

Title (en)

METHOD AND DEVICE FOR MEASURING THE INJECTION RATE OF AN INJECTION VALVE FOR LIQUIDS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR MESSUNG DER EINSPRITZRATE EINES EINSPRITZVENTILS FÜR FLÜSSIGKEITEN

Title (fr)

PROCEDE ET DISPOSITIF POUR MESURER LE DEBIT D'INJECTION D'UN INJECTEUR DE LIQUIDES

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Application

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Abstract (en)

[origin: WO2004040129A1] The invention relates to a method for measuring the injection rate of an injection valve for liquids, preferably liquid fuel, according to which the injection valve (3) injects the liquid into a liquid-filled sensing volume (1) that is sealed on all sides, a pressure sensor (20) being arranged inside the sensing volume. The sound velocity is determined and, as a consequence, the injection quantity (<m) or the progress of the injection rate (r (t)) is calculated from the measured pressure values (p (t)) or by means of a separate measurement. The inventive device comprises a sensing volume (1), an injection valve (3) which protrudes into the sensing volume by means of at least one injection port (12), and a pressure sensor (20) that is disposed within the pressure node of the natural vibration of the pressure of the sensing volume (1).

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