

Title (en)
METERING DEVICE

Title (de)
DOSIEREINRICHTUNG

Title (fr)
DISPOSITIF DE DOSAGE

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EP 3374634 A1 20180919 (DE)

Application
EP 16805733 A 20161111

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Abstract (en)
[origin: WO2017081242A1] The invention relates to a metering device for metering an easily combustible material, in particular acrolein acetal, from a source or a storage container (20) into a vacuum line (38), comprising: a displacement pump (26) operated via a compressed air motor (28), the pumping capacity of which can be controlled; and a pressure-sustaining and pressure-controlling valve (35), arranged between the displacement pump (26) and the vacuum line (38), the dimensionless delivery head H/H_o [mWs/1mWs] of which is associated with the dimensionless delivery capacity Q/Q_o [m3/h/1m3/h] according to formula: $\{H/H_o\} = \{C_1 \cdot (Q/Q_o)\}^{0.333}$, wherein H = hydraulic pressure at the input of the pressure-sustaining and pressure-controlling valve, $H_o = 1$ mWS, C_1 = constant for the pressure-sustaining and pressure-controlling valve, Q = hydraulic flow rate, and $Q_o = 1$ m3/h.

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