

Title (en)

PRESSURE CONTROL VALVE FOR A FUEL INJECTION SYSTEM

Title (de)

DRUCKREGELVENTIL FÜR EIN KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)

VANNE DE RÉGULATION DE PRESSION POUR UN SYSTÈME D'INJECTION DE CARBURANT

Publication

EP 3604788 A1 20200205 (EN)

Application

EP 19184518 A 20190704

Priority

GB 201812527 A 20180801

Abstract (en)

A Pressure control valve (10) for a fuel injection system comprises a housing (26) including: a fluid channel (42) extending between an inlet port (44) and an outlet port (46), a valve seat (48) in said fluid channel, and a valve element (50) associated with the valve seat to open or close fluid flow therethrough. The housing includes a base housing part (26.2) and a front housing part (26.1) configured to be engaged into a cavity (12) of a fuel system, said front housing part extending along a longitudinal axis (X), said housing further including fastening means (41) for fixing of the valve into the cavity (12). The inlet port is located in the front housing part and the front housing part has an external, annular contact surface (54) that is adapted to be pressed against a corresponding annular sealing surface (56) in the cavity (12); the annular contact surface separating the region of the inlet port from that of the outlet port. A piezoresistive element (52, 152) is arranged on the annular contact surface (54) for sensing a contact pressure when the valve is mounted in the cavity and presses against the annular sealing surface (56) of the cavity.

IPC 8 full level

F02M 57/00 (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01); **F16K 37/00** (2006.01)

CPC (source: EP GB)

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Citation (search report)

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