

Title (en)

Pressure limiting device and fuel system with such a pressure limiting device

Title (de)

Druckbegrenzungseinrichtung sowie Kraftstoffsystem mit einer solchen Druckbegrenzungseinrichtung

Title (fr)

Dispositif de limitation de pression et système de combustible avec tel dispositif de limitation de pression

Publication

EP 1251266 B1 20050223 (DE)

Application

EP 02005094 A 20020307

Priority

DE 10118936 A 20010418

Abstract (en)

[origin: EP1251266A1] The limiter (56) has a housing (58) with intake (70) and outlet (86), connected by a tensioned element (82) at a set pressure differential. The limiter has a bypass volume, in direction of flow in front of the tensioned element. A hydraulic resistance, esp. a flow throttle (74), is positioned in the intake to the bypass volume, which also contains a pre-chamber (72). The bypass volume is created by movement of the tensioned element. The element is a cylindrical piston (82) with outer and intake-sided sections (94,92). The pressure limiter is pref. integrated in a second fuel pump.

IPC 1-7

F02M 55/02; **F02M 63/02**

IPC 8 full level

F02M 55/02 (2006.01); **F02M 55/04** (2006.01); **F02M 59/02** (2006.01); **F02M 59/46** (2006.01); **F02M 63/02** (2006.01); **F02M 69/00** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 55/04 (2013.01); **F02M 59/46** (2013.01); **F02M 63/005** (2013.01); **F02M 63/0225** (2013.01); **F02M 2200/315** (2013.01); **F02M 2200/40** (2013.01)

Cited by

CN102996433A; EP1365142A3; EP1835169A3; FR2887319A1; US8245725B2; US7152583B2; WO2012089370A1; WO2006134264A1; WO2012089371A1; WO2012089375A1; WO2012089376A1; WO2008122521A1

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