

Title (en)

INSERT FOR A THERMOSTATIC EXPANSION VALVE, THERMOSTATIC EXPANSION VALVE AND METHOD FOR ASSEMBLING A THERMOSTATIC EXPANSION VALVE

Title (de)

EINSATZ FÜR EIN THERMOSTATISCHES EXPANSIONSVENTIL, THERMOSTATISCHES EXPANSIONSVENTIL UND VERFAHREN ZUR MONTAGE EINES THERMOSTATISCHEN EXPANSIONSVENTILS

Title (fr)

PIÈCE RAPPORTÉE POUR DÉTENDEUR THERMOSTATIQUE, DÉTENDEUR THERMOSTATIQUE ASSOCIÉ ET SON PROCÉDÉ D'ASSEMBLAGE

Publication

EP 3455565 A1 20190320 (EN)

Application

EP 17722785 A 20170511

Priority

- DK PA201600288 A 20160511
- EP 2017061274 W 20170511

Abstract (en)

[origin: WO2017194651A1] The invention relates to an insert (1) for a thermostatic expansion valve as a thermostatic expansion valve (2) comprising such an insert and to a method of assembling such a thermostatic expansion valve (2). The insert (1) comprises an expansion valve element (3) and an expansion valve seat (4). The expansion valve element (3) is held inside the insert (1) by a biasing member (5), wherein the insert (1) is structured and arranged to be inserted into a valve housing (8). The task of the invention is to provide an insert for a thermostatic expansion valve that allows a simple assembly of the valve and also provides an improved functionality. The task is solved in that the insert (1) further comprises a control valve (12), wherein the control valve (12) is located in the same flow path through the insert (1) as the expansion valve seat (4).

IPC 8 full level

F25B 41/06 (2006.01); **F16K 1/52** (2006.01)

CPC (source: CN EP US)

F16K 1/32 (2013.01 - CN); **F16K 1/36** (2013.01 - CN); **F16K 1/52** (2013.01 - EP US); **F16K 27/02** (2013.01 - CN); **F16K 31/0624** (2013.01 - EP); **F16K 31/0655** (2013.01 - CN); **F16K 31/0675** (2013.01 - CN); **F16K 31/1262** (2013.01 - CN); **F25B 41/325** (2021.01 - CN EP US); **F25B 41/335** (2021.01 - CN EP US); **F25B 2341/0683** (2013.01 - US)

Citation (search report)

See references of WO 2017194651A1

Cited by

US11879676B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017194651 A1 20171116; CN 109073294 A 20181221; CN 113048250 A 20210629; EP 3455565 A1 20190320; US 2019323748 A1 20191024

DOCDB simple family (application)

EP 2017061274 W 20170511; CN 201780026547 A 20170511; CN 202110332907 A 20170511; EP 17722785 A 20170511; US 201716099564 A 20170511