

Title (en)

MODULAR VALVE SYSTEM HAVING AN ELECTROMAGNETICALLY ACTUATED VALVE

Title (de)

VENTILBAUKASTENSYSTEM MIT ELEKTROMAGNETISCH BETÄTIGTEM VENTIL

Title (fr)

SYSTEME MODULAIRE DE SOUPAPE QUI COMPREND UNE SOUPAPE A ACTIONNEMENT ELECTROMAGNETIQUE

Publication

EP 1957840 A1 20080820 (DE)

Application

EP 06818793 A 20061124

Priority

- EP 2006011274 W 20061124
- DE 102005058846 A 20051209

Abstract (en)

[origin: WO2007065566A1] The invention relates to a modular valve system having an electromagnetically actuated valve (I, II, III, IV, V), wherein the valve comprises a magnet part (1) and, via a connecting point (32), a valve part (9) mounted on the end face and in the stroke direction of the magnet part (1), the magnet part has an axially displaceable armature (3) arranged in an axial bore (2) and having an actuating element (4) connected in the stroke direction, and the stroke movement of the armature (3) is produced by a magnetic field which is closed by a magnet coil (5) via a pole (12) with control cone (6), the armature (3) and a flux-directing housing (7) of the magnet part (1) with yoke (8), and the connecting point (32) relative to the valve part (9) has a predetermined connecting contour, with which different subassemblies for valve functions can be attached. The invention is characterized in that the connecting point (32) relative to the magnet part (1) comprises the pole (12) with the control cone (6), wherein the control cone (6) is designed in such a way as to bring about a predetermined force/stroke characteristic, with which stroke work is achieved, which is predetermined by the dimensions of the armature (3), of the yoke (8) and of the magnet coil (5) for different valve parts (9).

IPC 8 full level

F16K 31/06 (2006.01)

CPC (source: EP)

F16K 31/061 (2013.01)

Citation (search report)

See references of WO 2007065566A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007065566 A1 20070614; DE 102005058846 A1 20070628; DE 102005058846 B4 20090416; EP 1957840 A1 20080820

DOCDB simple family (application)

EP 2006011274 W 20061124; DE 102005058846 A 20051209; EP 06818793 A 20061124