

Title (en)

Proportional solenoid-valve unit

Title (de)

Proportionalmagnet-Ventileinheit

Title (fr)

Unité de soupape à aimant proportionnel

Publication

EP 0667458 B1 19980729 (DE)

Application

EP 95100335 A 19950112

Priority

DE 9402205 U 19940210

Abstract (en)

[origin: EP0667458A1] The valve has directional flow control provided by a spool (3) that is displaced axially within a constant diameter bore within a main housing block. Recesses in the spool (11) connect with supply and output ports (13). The spool is provided within a sleeve (5) that is retained within a constant diameter section by a ring groove section (14) at one end and an angled section (16) at the other. The electromagnetic actuator (1) fits onto the end of the housing and the armature (2) pushes against the spool.

IPC 1-7

F15B 13/044; **F16K 31/06**

IPC 8 full level

F15B 13/04 (2006.01); **F15B 13/044** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP US)

F15B 13/0402 (2013.01 - EP US); **F15B 13/0442** (2013.01 - EP US); **F15B 2013/041** (2013.01 - EP US); **Y10T 137/86622** (2015.04 - EP US); **Y10T 137/86879** (2015.04 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

DE 9402205 U1 19940428; DE 59502938 D1 19980903; EP 0667458 A1 19950816; EP 0667458 B1 19980729; JP H07224964 A 19950822; US 5487410 A 19960130

DOCDB simple family (application)

DE 9402205 U 19940210; DE 59502938 T 19950112; EP 95100335 A 19950112; JP 1786195 A 19950206; US 38637795 A 19950210