

Title (en)

Positive displacement pump systems.

Title (de)

Verdrängerpumpe-Anlagen.

Title (fr)

Systèmes de pompe à déplacement positif.

Publication

EP 0428374 A1 19910522 (EN)

Application

EP 90312361 A 19901113

Priority

GB 8925592 A 19891113

Abstract (en)

A positive displacement pump has two separate outlet passages, 16, 17 leading to a main outlet passage 18 containing a constant flow orifice 20. Outlet passage 17 contains a non-return valve 19. A control valve member is mounted in a bore opening to passage 18 upstream to orifice 20. The bore has an annular overspill port 31 and a by-pass port 34 which opens to outlet passage 17 upstream of valve 19. The valve member has two lands 29, 30 having end faces co-operating respectively with annular edges 31a, 34a of ports 31, 34. Notches 35, 36 are respectively formed in said end faces. On increasing pressure upstream of orifice 20 moves the valve member to by-pass the delivery from passage 17 to the overspill. Further increase of pressure then causes closure of the valve 19 and causes the valve member to move suddenly to pass fluid from passage 18 to the overspill port 31.

IPC 1-7

F04B 1/06; **F04B 49/00**

IPC 8 full level

F04B 1/06 (2006.01); **F04B 49/24** (2006.01); **F04C 2/344** (2006.01); **F04C 14/26** (2006.01)

CPC (source: EP)

F04B 1/063 (2013.01); **F04B 49/24** (2013.01); **F04C 2/3447** (2013.01); **F04C 14/26** (2013.01)

Citation (search report)

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