

Title (en)
Fluid power pressure supply manifold.

Title (de)
Druckmittel-Verteilerblock.

Title (fr)
Embase d'alimentation de fluide sous pression.

Publication
EP 0142281 A1 19850522 (EN)

Application
EP 84307059 A 19841015

Priority
US 54177183 A 19831013

Abstract (en)
A fluid power supply header or manifold system adapted to mount a plurality of individual valve means in parallel and/or series to a common supply pressure and tank return utilizing a dramatically reduced amount of material for any equivalent flow path and system flow capacity requirement. The manifold block (20) is characterized by a novel structure wherein the planar surface (34) of the manifold adapted to receive the valve means (51) is disposed at an angular disposition relative to two opposing surfaces which is less than ninety degrees. A cross-sectional plane taken perpendicular to the main pressure and tank duct passages (28) provided in the block defines a substantially triangular configuration between these three major planar surfaces. Valve access ports (40-50) are provided on the valve mounting surface and communicate by internal passages with the pressure and tank ducts and with outlet ports (52, 54) provided on one of the surfaces opposing the angularly inclined valve mounting surface for connection to external fluid control functions or fluid actuator means.

IPC 1-7
F15B 13/00; **F16K 27/00**

IPC 8 full level
F15B 11/00 (2006.01); **F15B 13/00** (2006.01); **F15B 13/08** (2006.01)

CPC (source: EP)
F15B 13/0817 (2013.01); **F15B 13/0825** (2013.01); **F15B 13/0832** (2013.01); **F15B 13/0896** (2013.01)

Citation (search report)
[A] US 4082324 A 19780404 - OBRECHT ROBERT E

Cited by
KR100498533B1; EP0945657A3; FR2701868A1; EP1065387A1; FR2795460A1; US6318409B1; US11794239B2; EP3738694A1; CN113365761A; WO2013097918A1; WO2020229033A1; WO0237003A1; WO2013097914A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0142281 A1 19850522; JP S6098201 A 19850601

DOCDB simple family (application)
EP 84307059 A 19841015; JP 21403884 A 19841012