

Title (en)
OUTLET PRESSURE CONTROL FOR INTERNAL GEAR PUMP

Title (de)
AUSLASSDRUCKREGELUNG FÜR EINE INNENZAHNRADPUMPE

Title (fr)
REGULATION DE LA PRESSION DE SORTIE POUR POMPE A ENGRENAGE INTERIEUR

Publication
EP 0845080 B1 20001122 (EN)

Application
EP 95927609 A 19950814

Priority
CA 9500481 W 19950814

Abstract (en)
[origin: WO9707337A1] A gerotor pump is described for use with non-compressible fluids such as automotive coolant or hydraulic oil. The pump includes three separate pump outlet ports, a bypass return passage, and an integral four position spool valve. Increasing back pressure from a downstream load is sensed by the spool valve which moves accordingly to restrict the fluid supplied. In the first position a full flow fluid is supplied to the load from all three ports. In the second position one port is vented to the bypass and the flow from the other two ports is directed to the load. In the third position two ports vent to bypass, and one port drives the load. In the fourth position all ports vent to bypass. In each case flow vented to bypass is not first compressed, permitting a smaller motor to be used.

IPC 1-7
F04C 15/04; **F04C 2/10**

IPC 8 full level
F04C 2/10 (2006.01); **F04C 14/12** (2006.01); **F04C 14/26** (2006.01); **F04C 15/06** (2006.01)

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F04C 14/12 (2013.01); **F04C 14/26** (2013.01)

Cited by
CN109469528A; US11795948B2

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