

Title (en)
RAPID RESPONSE VALVE

Title (de)
SCHNELL ANSPRECHENDES VENTIL

Title (fr)
VANNE A REPONSE RAPIDE

Publication
EP 0817930 A4 19980513 (EN)

Application
EP 96945433 A 19961227

Priority

- US 9620831 W 19961227
- US 944895 P 19951229
- US 1560896 P 19960418

Abstract (en)
[origin: WO9724542A1] A valve releases fluid from a high pressure source to a low pressure receiver and includes a housing (301) having a first cavity (312), a second cavity (313), an annular interior sealing surface (318), an elastomeric ring (303), a poppet (302) and an actuator (304) for controlling the poppet's axial movement disposed coaxially within the housing (301). The poppet has a substantially cylindrical side wall, forming an external sealing surface (317). The poppet has fluid channels (310) for channeling fluid from the first cavity (312) radially outward through at least one orifice (311) in the side wall. When closed, the elastomeric ring (303) contacts the exterior sealing surface (317) and the interior sealing surface (318) sealing the first cavity (312) from the second cavity (313). When open, the orifice (311) is disposed relative to the elastomeric ring (303) such that fluid exiting the orifice deforms the elastomeric ring (303) outwardly forming a gap (314).

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IPC 8 full level
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CPC (source: EP)
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Citation (search report)

- [X] EP 0096303 A1 19831221 - DAMS JORN
- See references of WO 9724542A1

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