

Title (en)
UNIVERSAL VALVE SYSTEM

Title (de)
UNIVERSALVENTILSYSTEM

Title (fr)
SYSTÈME DE VANNE UNIVERSELLE

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Application
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Abstract (en)
[origin: WO2010141013A1] The universal valve disclosed herein operates as both an actuated and non-actuated valve embodiment, both of which are assembled using a common universal valve body. When functioning in the actuated valve (200) embodiment, the invention includes components which open a small orifice (156) to provide pressurization or de-pressurization before the disk (154) is lifted off the seat (15) and the poppet valve is opened.

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Citation (search report)
See references of WO 2010141013A1

Citation (examination)

- US 2001032678 A1 20011025 - BIRCANN RAUL A [US], et al
- US 2002083982 A1 20020704 - GIBB JOHN [CA]
- FR 2241040 A1 19750314 - BBC BROWN BOVERI & CIE [CH]
- CA 940006 A 19740115 - ROCKWELL INTERNATIONAL CORP
- EP 1278011 A2 20030122 - HEATEC THERMOTECHNIK GMBH [DE]
- US 5605173 A 19970225 - ARNAUD GERARD [FR]
- US 5172722 A 19921222 - NISHIMURA KOICHI [JP]
- DE 1082785 B 19600602 - KOSMOS ARMATUREN & APPBAU

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