

Title (en)
Pressure responsive valve seat apparatus.

Title (de)
Auf Druck ansprechender Ventilsitz.

Title (fr)
Dispositif de siège de vanne réagissant à la pression.

Publication
EP 0055183 A1 19820630 (EN)

Application
EP 81402038 A 19811221

Priority
US 22024180 A 19801223

Abstract (en)
In accordance with an illustrative embodiment of the present invention, a pressure responsive valve seat assembly that is cooperable with a ball valve element to hold pressure in either direction when the ball valve is closed includes a retainer ring that is spring biased toward the valve element and which carries a valve seat ring, and a floating piston that is sealingly slidable with respect to the retainer ring and the valve housing, the various diameters of sealing engagement between the piston and the housing and the retainer ring, and between the valve seat ring and the ball element being sized and arranged such that a predominate fluid pressure either upstream or downstream of the ball valve force the retainer ring against the ball valve to prevent fluid leakage.

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E21B 34/06; F16K 5/20

IPC 8 full level
E21B 34/06 (2006.01); **E21B 34/00** (2006.01)

CPC (source: EP)
E21B 34/06 (2013.01); **E21B 2200/04** (2020.05)

Citation (search report)

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