

Title (en)

Valve assembly, for use with a straight-cylinder having a gas-compression chamber.

Title (de)

Ventilanordnung zur Verwendung in einem geraden Zylinder mit Gasverdichtungsraum.

Title (fr)

Clapet pour un cylindre droit comportant une chambre de compression de gaz.

Publication

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Application

EP 91301189 A 19910214

Priority

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Abstract (en)

The invention provides, in combination with a straight-cylinder, gas-compression chamber (12) having end closures; e.g. centrally-threaded end closures (14, 16) a gas control valve (30), comprising: a ported, valve seat (56); a ported, valve guard (36); a ported, valve plate (48) interposed between said seat (56) and guard (36); and a bolt (32), for mounting of said seat (56), guard (36) and plate (48) thereon, having (a) external threads formed thereon, and (b) an annular shoulder (34) formed thereabout; wherein said seat (56), guard (36), and plate (48) are centrally apertured; said guard (36) is set about said bolt (32), and against said shoulder (34); said seat (56) is (a) internally threaded, (b) threadedly engaged with said bolt (32) threads, and (c) has replaceable sealing means (68) engaged with the periphery (66) thereof; and said valve (30) is confined (e.g. reciprocally) within said gas-compression chamber, sealingly engaged with the inner surface of said chamber, and said bolt (32) being for example threadedly engaged with one of said centrally-threaded end closures of said chamber. The seat (56) and guard (36) can be circular; and can include a dampening plate (40) interposed between the valve plate (48) and valve guard (36). The valve guard (36) and dampening plate (40) can have mutually confronting peripheral surfaces wherein the peripheral surface of the guard (36) is circular; and the peripheral surface of the dampening plate (4) is trochoidal. <IMAGE>

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F04B 39/0016 (2013.01); **F04B 39/1053** (2013.01)

Citation (search report)

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