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Moshentsev U.L. Selecting the parameters for the selfacting valves of a piston compressor integrated into the charging system of a conrod-free diesel engine / U.L.

Moshentsev, D.S. Minchev, O.F. Vool // Internal combustion

engines. – 2009. – №1. – P. 53-57.

The methods and results of selecting the physical and

geometrical parameters for the self-acting disc ball-valves that

control gas exchange processes in the piston compressor have

been presented. The piston compressor has been integrated into

a combined charging system of vehicular conrod-free diesel

engine as the second charging stage. It is shown that the efficiency

of engine, equipped with a combined charging system

depends substantially on the parameters of self-acting valves of

a piston engine. The obtained parameters of self-acting valves

provide maximum average operational efficiency of the engine

in the given modes. Il. 3. Bibliogr. 7 names.